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GOVERNMENT OF PUERTO RICO
PUBLIC SERVICE REGULATORY BOARD
PUERTO RICO ENERGY BUREAU

IN RE: OPTIMIZATION PROCEEDING OF MINIGRID TRANSMISSION AND DISTRIBUTION INVESTMENTS	**CASE NO**.: NEPR-MI-2020-0016 **SUBJECT**: Final Design Criteria Codes and Standards

MOTION TO SUBMIT FINAL DESIGN CRITERIA CODES AND STANDARDS FOR STREETLIGHTING, SUBSTATIONS, TRANSMISSION AND UNDERGROUND DISTRIBUTION CONSTRUCTION

COMES NOW the Puerto Rico Electric Power Authority through its legal representation and respectfully submits as follows:

1. On September 2017, Puerto Rico's electric system was completely devasted by the landfall of hurricanes Irma and María, resulting in the longest electrical blackout in modern U.S. history. Following the aftermath of the hurricanes, the Puerto Rico Electric Power Authority (PREPA) worked closely with local and federal agencies, utility partners, contractors, and the Federal Emergency Management Agency not only to improve electric service, but also to identify areas of opportunity in the reconstruction of PREPA's assets.

2. One of these opportunities was revising and, when necessary, modifying the design criteria codes and standards that would be applicable to the assets that were being repaired and to new construction. Considering this, PREPA tasked several team members with the revision of these codes and standards.

3. On August 24, 2020, the Puerto Rico Energy Bureau of the Public Service Regulatory Board (the "Energy Bureau") entered a final resolution and order through which it approved in part and rejected in part

PREPA's proposed Integrated Resource Plan (the "Final IRP Order").[1] The Energy Bureau also modified PREPA's proposed Action Plan and ordered the adoption and implementation of a Modified Action Plan as detailed in the Final IRP Order. *Id.*

4. In the Final IRP Order, the Energy Bureau noted that it would commence an Optimization Proceeding to explore the costs, benefits and alternative configurations of combination of wires and local distributed resources that best serve the People of Puerto Rico in safeguarding them against the effects of outages resulting from severe weather events. *Id*., pag. 19, ¶ 117. In accordance with this resolution, on December 22, 2020, the Energy Bureau opened the captioned matter and initiated the Optimization Proceeding.[2] PREPA understands that having final design codes and standards will benefit the processes and goals that are being pursued in this case.

5. As of today, PREPA has completed the design criteria codes and standards for streetlighting, substation[3], transmission and underground distribution. These are submitted with this motion as follows:

a. Transmission Design Criteria. Exhibit A.

b. Substation Design Criteria. Exhibit B

c. Transmission Manual. Exhibit C.

d. Streetlighting Manual. Exhibit D.

e. Underground Distribution Manual. Exhibit E.

6. Pursuant to the above, PREPA hereby submits as attachments to this motion the completed and final versions of the codes and standards which have the ultimate purpose of supporting the

[1] *Final Resolution and Order on the Puerto Rico Electric Power Authority's Integrated Resource Plan* entered on August 24, 2020, in the matter of *In Re: Review of the Puerto Rico Electric Power Authority Integrated Resource Plan*, Case No. CEPR-AP-2018-0001, p. 1, ¶ 1.
[2] *Resolution and Order* entered on December 22, 2020.
[3] PREPA will file the substation manual will be filed this week.

Energy Bureau in the activities carried as part of the Optimization Proceeding in the captioned case.

RESPECTFULLY SUBMITTED.

In San Juan Puerto Rico, this 31st day of May 2021.

s/ Katiuska Bolaños-Lugo
Katiuska Bolaños-Lugo
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CERTIFICATE OF SERVICE

It is hereby certified that, on this same date, I have filed the above motion with the Office of the Clerk of the Energy Bureau using its Electronic Filing System at https://radicacion.energia.pr.gov/login, and a courtesy copy of the filling was sent via e-mail to mario.hurtado@lumamc.com; wayne.stensby@lumamc.com; Ashley.engbloom@lumamc.com; Legal@lumamc.com; margarita.mercado@us.dlapiper.com; Elias.sostre@aes.com; jesus.bolinaga@aes.com; cfl@mcvpr.com ; ivc@mcvpr.com; notices@sonnedix.com; leslie@sonnedix.com; victorluisgonzalez@yahoo.com ; jcmendez@reichardescalera.com; r.martinez@fonroche.fr ; gonzalo.rodriguez@gestampren.com;kevin.devlin@patternenergy.com; fortiz@reichardescalera.com ; jeff.lewis@terraform.com; mperez@prrenewables.com ; cotero@landfillpr.com ; geoff.biddick@radiangen.com ; hjcruz@urielrenewables.com ; carlos.reyes@ecoelectrica.com; brent.miller@longroadenergy.com ; tracy.deguise@everstreamcapital.com ; agraitfe@agraitlawpr.com ; h.bobea@fonrochepr.com ; ramonluisnieves@rlnlegal.com ; hrivera@oipc.pr.gov ; info@sesapr.org ; yan.oquendo@ddec.pr.gov ; acarbo@edf.org ; pjcleanenergy@gmail.com ; Jmadej@veic.org ; nicolas@dexgrid.io ; javrua@gmail.com ; JavRua@sesapr.org ; lmartinez@nrdc.org ; thomas.quasius@aptim.com ; rtorbert@rmi.org; tjtorres@amscm.com ; lionel.orama@upr.edu ; noloseus@gmail.com ; aconer.pr@gmail.com ; dortiz@elpuente.us ; wilma.lopez@ddec.pr.gov ; gary.holtzer@weil.com; ingridmvila@gmail.com ; rstgo2@gmail.com; agc@agcpr.com ; presidente@ciapr.org ; cpsmith@unidosporutuado.org ; jmenen6666@gmail.com ; cpares@maximosolar.com ; CESA@cleanegroup.org ; acasepr@gmail.com ; secretario@ddec.pr.gov; julia.mignuccisanchez@gmail.com ; professoraviles@gmail.com ; gmch24@gmail.com ; ausubopr88@gmail.com ; carlos.rodriguez@valairlines.com ; amaneser2020@gmail.com ; acasellas@amgprlaw.com ; presidente@camarapr.net ; jmarvel@marvelarchitects.com; amassol@gmail.com ; jmartin@arcainc.com ; melitza.lopez@aep.pr.gov; eduardo.rivera@afi.pr.gov ; leonardo.torres@afi.pr.gov ; carsantini@gmail.com ; directoralcaldes@gmail.co · imolina@fedalcaldes.com ; crivera@fedalcaldes.com; LCSchwartz@llb.gov; thomas@fundacionborincana.org ; cathykunkel@gmail.com ; joseph.paladino@hq.doe.gov; adam.hasz@ee.doe.gov ; Sergio.Gonsales@patternenergy.com ; energiaverdepr@gmail.com ; Arnaldo.serrano@aes.com; Gustavo.giraldo@aes.com; accounting@everstreamcapital.com; mqrpcorp@gmail.com jczayas@landfillpr.com, auriarte@newenergypr.com; Jeanna.steele@sunrun.com; mildred@liga.coop; rodrigomasses@gmail.com; presidencia-secretarias@segurosmultiples.com

In San Juan, Puerto Rico, this 31st day of May 2021.

s/ Katiuska Bolaños-Lugo
Katiuska Bolaños-Lugo

Exhibit A

Transmission Design Criteria

TRANSMISSION DESIGN CRITERIA

May 2021

PREPA
Commonwealth of Puerto Rico

Puerto Rico Electric Power Authority
Office 313, NEOS Building
1110 Ponce de León Avenue
Santurce, P.R. 00908

REVISION INDEX

Revision	Description	Date
1.0	Issue for Review	January 12, 2021
2.0	Issue for Approval	January 26, 2021
3.0	Revised Issue for Approval	May 28, 2021

PREPA Approval: _____ **Date:** _____
Alfonso Baretty Huertas

PREPA Recommended: _____ **Date:** _____
To FEMA ***Maricarmen Rivera Castro***

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1.0 GENERAL

1.1 Summary

This document is being provided in coordination with the Department of Energy (DOE) report titled Energy Resilience Solutions for the Puerto Rico Grid. Additionally, the document will serve as a basis for implementation of vendor proposed equipment solutions which includes descriptive intent of the implementation and coordination of installed betterment solutions.

The intention is to establish transmission system design criteria that at a minimum is in accordance with the Rural Utility Standards (RUS) which also is in concert with appropriate Industry Standards such as ANSI, NEMA, NESC, NEC, ASCE , among others, as listed within this document. This document will serve to establish and finalize transmission line design criteria for the electrical system which will result in a resilient, reliable, and modern power grid.

The objectives which will drive the Transmission Design Criteria are listed below:

1.1.1 Establish strong and practical safe transmission structure loading criteria that meet industry standards and will support required electrical clearances.

1.1.2 As the backbone of the Puerto Rico power grid, a thorough review of the existing 230 kV and 115 kV transmission and 38 kV subtransmission network to identify top-down components and auxiliary support systems in need of upgrade and physical replacement / repair will need to be completed. This will include high voltage structures, conductor, connections, and air-break switches.

1.1.3 A review of existing structural and civil supporting systems for transmission equipment, and transmission line terminal conductor tensions will be completed. This includes structure and foundation analysis which support static load conditions imposed by equipment and conductors as well as environmental load factors outlined in the Design Criteria Document (DCD).

1.1.4 Provide hurricane resistant designs by lessening the structural load factor and increasing wind resistance.

1.2 Overview

This document outlines the design standards for high voltage transmission and subtransmission lines to maintain uniformity and consistency. Transmission is

defined to be voltages greater than 38 kV. Subtransmission is defined to be 38 kV. The design work shall meet all governing national standards and Puerto Rico Electric Power Authority (PREPA) area specific standards and unique environmental requirements to ensure reliable service in the event of climactic weather events. The most recent updates to these standards, and all other applicable standards apply.

Care must be taken when referring to the national standards, as they are generally performance standards, and not design standards. They do not take into account local environmental conditions or PREPA operational constraints.

Refer to the PREPA Standards for direction and guidance on the approach and details; the PREPA Standards have considered areas where multiple standards apply.

Material and equipment selection will be governed by compliance to this document, pertinent specifications, cost, constructability, and availability. Whenever possible cost-effective industry standard materials and equipment will be used. All materials and equipment shall be agreed upon by PREPA.

1.3 National Codes and Reference Materials

- ALCOA (Formerly the Aluminum Company of America)
- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- American National Standards Institute (ANSI)
- American Society of Civil Engineers (ASCE)
- American Wood Protection Association (AWPA)
- Association of Edison Illuminating Companies (AEIC)
- ASTM International (ASTM)
- Avian Power Line Interaction Committee (APLIC)
- Electric Power Research Institute (EPRI)
- Federal Aviation Administration (FAA)
- Federal Communications Commission (FCC)
- Institute of Electrical and Electronic Engineers (IEEE)
- Insulated Cable Engineers Association (ICEA)
- International Electrochemical Commission (IEC)
- National Electrical Manufacturers Association (NEMA)
- National Electrical Safety Code (NESC)
- Puerto Rico Electric Power Authority (PREPA)
- Rural Utilities Service (RUS), United States Department of Agriculture
- Regulations per the Commonwealth of Puerto Rico

The design standards also take in consideration the unique environmental conditions on the islands and industry best practices.

1.4 Environment

Local Environmental Considerations:

- Record Low 45°F
- Record High 103°F
- Thickness of Ice possible is 0 inches
- NESC Rule 233A1 Conductor Movement Envelope wind speed increased from 48mph (6psf) to 60 mph (9.2psf)
- Maximum design wind speed per ASCE MOP 74-20 300-year MRI 3-second gust wind speed map contours (Figure L-7), including applicable coefficients for wind load computation as authorized by the Consensus-Based Codes, Specifications and Standards for Public Assistance FEMA Recovery Interim Policy FP-104 009-11
- Salt spray from coastal wind, insulator contamination and corrosion
- Very high lightning flash density
- Ambient soil temperature

1.5 Survey Requirements

Survey data for each project shall be provided in the following coordinate system:

- Horizontal Datum – NAD83
- Vertical Datum – NAVD88
- Projection – Puerto Rico and Virgin Islands State Plane
- Units – US Survey Foot

1.6 Transmission Line Design

In addition to meeting the required minimum National and Industry standards, the transmission line design will incorporate these relatively low-cost improvements to further increase the reliability of the system.

- Silicone polymer insulators with higher leakage distances and flashover voltages shall be used to combat the salt contamination where necessary.
- Storm guys should be added in maximum wind areas
- Structure designs should prevent suspended conductor swing into structures through cost effective means such as the use of post, braced post or V-string insulators where necessary
- Conductors with anti-corrosive core coatings such as aluminum/zinc mischmetal or alumoweld should be considered within 10 miles of coastlines to combat salt contamination

- Oxide inhibiting electrical joint compound should be used for all high voltage electrical connections, terminations and splices

1.7 Construction and Operation Considerations

The transmission line design shall take into consideration cost and ease of constructability. Design will comply with requirements of the following documents:

- Transmission Line Design Guidelines Manual
- PLS-CADD Design Guidelines
- Steel Transmission Pole Specification
- Transmission Line Overhead Clearances

2.0 ELECTRICAL AND STRUCTURAL MATERIAL AND EQUIPMENT DESIGN CRITERIA

2.1 Overhead Conductors

Transmission conductors must be chosen to provide the required ampacity during normal and contingence operation, including expected load growth, and minimize the creation of audible and radio noise.

2.1.1 Ampacity and Conductor Selection, Phase, OPGW and Overhead Ground Wire

The ampacity requirements of overhead conductors and the conductor for use will be determined by PREPA. The ampacity calculation is based upon the following ambient conditions using IEEE 738, Standard for Calculating Current-Temperature Relationship of Bare Conductors:

- Maximum Air Temperature: 103 degrees F (40 degrees C)
- Minimum Wind Speed: 2 ft/sec
- Wind direction perpendicular to conductors (or survey specific)
- Emissivity: 0.8
- Absorptivity: 0.8
- Line Azimuth: 0° North-South (or project specific)
- Line Elevation: 200 ft (or project specific)
- Latitude: 18°
- Clear Atmosphere
- Day of year: June 15
- Time of day: 12:00pm
- Maximum operating temperature of 100 degrees C for ACSR, ACAR or AAC conductors
- Maximum operating temperature of 200 degrees C for ACSS conductors

- Maximum operating temperature of 75 degrees C for copper conductors. The maximum operating temperature of other high temperature conductors will be determined on a case by case basis

Conductors will comply with the most appropriate requirements of the following standards:

- ASTM A474, Standard Specification for Aluminum-Coated Steel Wire Strand
- ASTM B230 / B230M – 07, Standard Specification for Aluminum 1350–H19 Wire for Electrical Purposes
- ASTM B231 / B231M – 12, Standard Specification for Concentric Lay Stranded Aluminum 1350 Conductors
- ASTM B232 / B232M – 11, Standard Specification for Concentric Lay Stranded Aluminum Conductors, Coated Steel Reinforced (ACSR)
- ASTM B498 / B498M – 08, Standard Specification for Zinc Coated (Galvanized) Steel Core Wire for Use in Overhead Electrical Conductors
- ASTM B606 – 08, Standard Specification for High Strength Zinc Coated (Galvanized) Steel Core Wire for Aluminum and Aluminum Alloy Conductors, Steel Reinforced
- ASTM B856 – 12, Standard Specification for Concentric Lay Stranded Aluminum Conductors, Coated Steel Supported (ACSS)
- ASTM B957 – 08, Standard Specification for Extra High Strength and Ultra High Strength Zinc Coated (Galvanized) Steel Core Wire for Overhead Electrical Conductors
- NEMA WC 26-2000, Bi-National Wire and Cable Packaging Standard

Conductors, as determined by PREPA, are selected in incremental steps to provide a substantive increase in ampacity and to minimize the overall inventory of various conductor sizes. Conductors will be selected from those conductors commonly used throughout the electric utility industry to maximize the volume production of conductors and select those of greatest benefit vs. cost. Where possible, it is preferred to utilize existing conductors for new and existing lines.

2.1.1.1 Preferred Conductor Properties

Properties of preferred PREPA conductors can be found in the Transmission Line Design Guidelines Manual.

2.1.1.2 Preferred OHGW Properties

Existing transmission lines utilize 3#6 AW overhead ground wire (OHGW).

Proposed transmission lines will utilize 7#6 AW OHGW except where fault current requirements are exceeded. Fault current requirements to be provided by PREPA.

2.1.1.3 Preferred OPGW Properties

Properties of preferred PREPA OPGW can be found in the Specification for Aerial Fiber Optic Cables and the Transmission Line Design Guidelines Manual.

2.1.1.4 Preferred Underground Subtransmission Conductor Properties

PREPA's standard 38 kV underground conductors used are 800 Kcmil CU (46 kV insulation) and 2,000 CU kcmil (46 kV insulation) as per PREPA specifications 006-01567 and NC/2000 respectively. The 4/0 CU (46 kV insulation) is permitted for special applications in radial fed private substations.

2.1.2 Economic Conductor Selection Criteria

Conductor selection for large or critical projects should be done to minimize the overall long-term cost of the operation of a transmission line. The operation of transmission lines under elevated temperatures results in significant energy losses, which equates to increased expense to the Utility.

The Net Present Value of the losses should be calculated over at least a 20-year period for each conductor under consideration with the anticipated loading. Larger conductors will have lower losses, however a line with the larger conductor will also cost more to construct. The difference in the NPV of the losses can be applied towards the cost of the increased size of the conductor.

The optimum conductor will be the largest conductor where the losses cover at least the upgrade cost of the overall line. Where possible, it is preferred to utilize existing conductors for new and existing lines.

2.1.3 Conductor Sag Design Criteria

Conductor sag design will comply with the following standards:

- ANSI C2, The National Electrical Safety Code (NESC)

- Industry best practices
- Conductor design operating temperatures not to exceed, 100 degrees C for ACSR, 200 degrees C for ACSS and 75 degrees C for copper

The overhead shield wire should be sagged to 80% of the phase conductor at a temperature of 80 degrees F, final sag, with no wind.

Wire tensions shall not exceed the limits as found in Table 1.

Table 1
Wire Stringing Tension Limits

Description	Wire Temp. (°F)	Tension Limits* (percentage of rated breaking strength)		
		Bare Conductor	OHGW***	OHGW/OPGW Extra High Strength Steel
RS < 500 ft Final after creep no load	40	18	25	20
RS > 500 ft Final after creep no load	40	20	25	20
Initial no load	40	33.3	25	20
Maximum Final no load	60	25	25	20
Initial NESC District Load	50	50	50	50
Maximum Wind	60	60	80	80**

* Tension limits are the worst case between NESC-2017 and PREPA legacy standards.
**OPGW cable tensions shall not exceed limits specified by the manufacturer, refer to Specification for Aerial Fiber Optic Cables.
***Excluding extra high strength steel.

2.1.4 Telecommunication

Transmission design shall accommodate all Telecommunication requirements and adhere to the structure loading and clearances set forth by the Transmission Line Design Guidelines Manual and Transmission Line Overhead Clearances document. This includes, but is not limited to antennas, small cell, cable attachments and other communication equipment. Details for telecommunication facilities shall also reference all applicable construction and design standards as well as the Operational Technology-OT DCD and standards. Third party attachments to PREPA's

facilities shall be monitored and controlled in accordance with PREPA's Standards and Procedures and Specification for Joint Use Attachments on Utility Poles.

Any underground transmission facilities shall include the appropriate telecommunication infrastructure and adhere to the previously stated telecommunication standards.

Where multiple standards apply, the most appropriate standard shall be followed.

2.1.5 Shielding Angle

The shielding angle shall conform to Table 2 below:

Table 2
Allowable Shielding Angle

Structure Height	Shielding Angle*
< 92'	30 Degrees
92' - 99'	26 Degrees
99' - 116'	21 Degrees
>116'	20 Degrees

*The above Shielding Angles are suggested values with the actual angle to be developed during detailed design but not to exceed 30 degrees.

2.1.6 Galloping

Typical galloping calculations are generally not considered applicable where there is no possibility of ice on wire. Galloping ellipses will not be calculated.

2.2 Insulation and Hardware

2.2.1 Insulators

Insulator selection will comply with the following standards:

- ANSI C29, Insulators
- ANSI/IEEE 987, IEEE Guide for Application of Composite Insulators
- IEEE 1313 Insulation Coordination
- NESC Section 26, Strength Requirements
- NESC Section 27, Line Insulation

- RUS Electric Bulletin 1724E-220, Procurement and Application Guide for Non-Ceramic Composite Insulators, Voltage Class 34.5 kV and above

All insulators selected shall be silicone polymer type, as the external insulating material with its hydrophobicity properties provides an increased ability to shed contaminants.

Insulator design shall be of the following configurations:

- Post (suspension clamp/trunnion clamp)
- Braced Post
- Braced Suspension
- Suspension on arm (I-String/V-String/deadend)
- Jumper Line Post (deadend)

Corona Rings are required for all lines designed for 115 kV or higher.

In coastal areas and those areas that have experienced insulator contamination, the insulator rating should have additional leakage distances and higher flashover voltage ratings.

Refer to Transmission Line Design Guidelines Manual for insulator leakage distance requirements.

Insulators shall not exceed allowable loads shown in Table 3 below.

Table 3 Insulator Loading Limits			
Insulator Type	**NESC District Loading**	**Maximum Loading**	
		Non-Ceramic	**Porcelain***
Suspension	40% (% of ANSI standard SML or M&E strength)	50% (% of ANSI standard SML or M&E strength)	65% (% of ANSI standard SML or M&E strength)
Horizontal Post Cantilever Tension, Compression	40% 50% (% of ANSI standard SML or M&E strength)	50% 50% (% of ANSI standard SML or M&E strength)	65% 65% (% of ANSI standard SML or M&E strength)
Vertical Post (Porcelain*) (Non-Porcelain) Vertical Pin Insulator (Porcelain, Mounted on the Crossarm*) (Non-Porcelain)	750 lbs. 1,350 lbs. 500 lbs. 1,350 lbs.		

From RUS Bulletin 1724E-200 Table 8-5

* Porcelain used for legacy equipment only. All new insulators are to be silicone polymer

Refer to applicable insulator standards, based upon voltage, for use on existing and proposed structures.

2.2.2 Line Hardware

Hardware selection will comply with the following standards and documents:

- Applicable National Codes and Standards
- RUS Electric Bulletin 1724E-200, Design Manual for High Voltage Transmission Lines
- RUS Electric Bulletin 1728F-811, Electric Transmission Specifications and Drawings, 115 kV Through 230 kV

The transmission line hardware shall be designed for the specific voltage application and conductor being used. Suspension hardware strength shall be the lesser of twice the maximum applied load or conductor breaking strength. Dead-end hardware shall exceed the conductor breaking

strength. Hardware shall be designed to ease the constructability of the line.

All hardware for ACSS conductors shall be rated for “Hi-Temp” applications.

Armor rods or Armor-Grip suspension assemblies shall be used at all wire suspension attachments.

Compression fittings shall be used for all 115 and 230 kV conductor deadend applications.

Bolted fittings shall be acceptable for 38 kV, OHGW and OPGW. Wedge-type deadends are also acceptable for OPGW.

All hardware for lines 230 kV and higher shall be corona-free.

All hardware shall be dulled.

When designing running angle and structures with spans of steep elevation changes, consideration should be given to using double-shoe suspension assemblies with yoke plates to protect the wire through the sharp bends, refer to Transmission Line Design Guidelines Manual.

2.2.3 Aeolian Vibration

Transmission structures are subjected to non-turbulent winds of moderate velocity on a daily basis. These winds can cause high-frequency aeolian vibration that can lead to conductor strand damage by fatigue at structure attachment points. These vibrations and conductor damage can be mitigated with the use of various types of vibration dampers. For conductor phases with a single wire, stockbridge dampers should be used to limit aeolian vibration at all voltages 38 kV and above. Stockbridge damper suppliers, such as PLP, AFL, & Hubbell all have online tools for determining quantity and placement of their dampers on transmission lines. Spiral dampers provide a low cost, reduced installation labor option for smaller diameter wires and are recommended for OHGW/OPGW applications. Multiple bundled conductor vibration can be mitigated with the installation of spacer dampers or a combination of spacer and stockbridge dampers. Manufacturers of all types of dampers provide means to determine their quantities and placements and these tools should be relied upon for vibration design.

2.3 Structure Design

2.3.1 Structure Types

The transmission structure types shall be based on established PREPA standards. Steel poles shall be used where possible. Guyed or self-supporting aluminum or steel lattice tower structures may be considered in long span or difficult access applications. The standard PREPA structures have been selected to optimize overall sustainability of material procurement and improve grid resiliency.

For 38 kV subtransmission lines, the minimum structure heights will be 65 feet for concrete poles and 70 feet for steel poles, regardless of the number of underbuilt distribution feeders installed on the pole.

Whenever possible, the line design should utilize PREPA standard structures, conductors, insulators, OHGW/OPGW, and line hardware.

The selection of structure types will comply with the following standards and documents:

- ANSI C2, National Electrical Safety Code (NESC)
- PREPA, *Manual de Patrones de Construcción de Líneas de Transmisión (*Transmission Lines Standards Manual)
- RUS Bulletin 1724E-200, Design Manual for High Voltage Transmission Lines
- RUS Bulletin 1724E-203, Guide for Upgrading Transmission Lines
- RUS Electric Bulletin 1724E-204, Guide Specifications for Steel Single Pole and H-Frame Structures
- RUS Electric Bulletin 1724E-205, Design Guide: Embedment Depths for Concrete and Steel Poles
- RUS Electric Bulletin 1724E-214, Guide Specification for Standard Class Steel Transmission Poles
- RUS Electric Bulletin 1724E-216, Guide Specification for Standard Class Prestressed Concrete Transmission Poles
- RUS Electric Bulletin 1724E-224, Electric Transmission Guide Specifications and Drawings for Steel Pole Construction - 34.5 to 230 kV
- RUS Electric Bulletin 1724E-226, Electric Transmission Guide Specifications and Drawings for Concrete Pole Construction - 34.5 to 230 kV
- RUS Electric Bulletin 1728F-700, Specification for Wood Poles, Stubs and Anchor Logs
- RUS Electric Bulletin 1728F-811, Electric Transmission Specifications and Drawings, 115 kV through 230 kV

2.3.2 Structure Loadings and Strengths

Structure design will comply with the following standards and documents:

- ACI 318-14, Building Code Requirements for Structural Concrete
- ANSI C2, National Electrical Safety Code (NESC)
- ASCE 48-11, American Society of Civil Engineers Manuel Design of Steel Transmission Pole Structures
- ASCE SCE 10-15, Design of Latticed Steel Transmission Structures
- ASCE 74-20, Guidelines for Electrical Transmission Line Structural Loading
- ASCE 91-97, Design of Guyed Electrical Transmission Structures
- ACSE 123-12, Prestressed Concrete Transmission Pole Structures
- AWPA
- IEEE 1243, Guide for Improving the Lightning Performance of Transmission Lines
- EPRI, Handbook for Improving Overhead Transmission Line Lightning Performance
- EPRI, AC Transmission Line Reference Book – 200 kV and Above
- Pre-stressed Concrete Institute, Guide Specifications
- APLIC, Suggested Practices for Avian Protection on Power Lines
- PREPA, Manual de Patrones de Construcción de Líneas de Transmisión (Transmission Lines Standards Manual)
- RUS Bulletin 1724E-200, Design Manual for High Voltage Transmission Lines
- RUS Bulletin 1724E-203, Guide for upgrading transmission lines
- RUS Electric Bulletin 1724E-204, Guide Specifications for Steel Single Pole and H-Frame Structures
- RUS Electric Bulletin 1724E-205, Design Guide: Embedment Depths for Concrete and Steel Poles
- RUS Electric Bulletin 1724E-214, Guide Specification for Standard Class Steel Transmission Poles
- RUS Electric Bulletin 1724E-216, Guide Specification for Standard Class Prestressed Concrete Transmission Poles
- RUS Electric Bulletin 1724E-224, Electric Transmission Guide Specifications and Drawings for Steel Pole Construction - 34.5 to 230 kV
- RUS Electric Bulletin 1724E-226, Electric Transmission Guide Specifications and Drawings for Concrete Pole Construction - 34.5 to 230 kV
- RUS Electric Bulletin 1728F-700, Specification for Wood Poles, Stubs and Anchor Logs
- RUS Electric Bulletin 1728F-811, Electric Transmission Specifications and Drawings, 115 kV through 230 kV

New transmission line facilities shall be designed using the weather cases and overload factors listed in Table 4 below. The wind shall be applied perpendicular to the conductor for structure analysis. Yawed wind shall be analyzed for lattice structures.

Table 4
Structure Weather Cases and Overload Factors*

Load Case	Temp (°F)	Wind Speed (mph)	Wind Pressure (psf)	Vertical OLF	Tension OLF	Wind OLF
NESC 250B Warm Island	50	60	9	1.5	1.65	2.5
NESC 250C Extreme Wind	60	145	54	1.0	1.0	1.0
PREPA Hurricane Wind (Aluminum & Steel)	60	***	***	1.1	1.1	1.1
PREPA Hurricane Wind (Concrete)	60	***	***	1.33	1.33	1.33
PREPA Hurricane Wind (Wood)**	60	***	***	2.66	2.66	2.66
Uplift	40	0	0	1.0	1.0	1.0
Everyday	80	0	0	1.0	1.0	1.0
Deflection	80	60	9	1.0	1.0	1.0

*Structural criteria for existing PREPA facilities may differ and is to be developed on an individual project need basis and approved by PREPA and/or LUMA.
**Wood values provided for evaluation of existing structures.
***Maximum design wind speed per ASCE MOP 74-20 300-year MRI 3-second gust wind speed map contours (Figure L-7).
Refer to Transmission Line Design Guidelines Manual for additional requirements.

New transmission line foundations shall be designed using the criteria listed in Table 5 below.

Table 5
Foundation Deflection & Rotation Limits

Total Deflection (in)	Non-Recoverable Deflection (in)	Total Rotation (deg)	Non-Recoverable Rotation (deg)
4	2	2	1

Refer to Geotechnical Design Guidelines for Transmission Line Foundations for additional requirements.

Drilled pier foundation designs should maintain a minimum of 3” of concrete cover between rebar and earth exposure with a minimum 28-day concrete strength of 4,000 psi.

Drilled pier foundation reveal height should be a minimum of 1ft above flat grade or high side of slope.

2.4 Structure and Equipment Grounding

2.4.1 General

Structure grounding shall comply with the following standards, including the minimum measured grounding values and the frequency of the required pole grounds:

- ANSI C2, National Electrical Safety Code (NESC)
- APLIC, Suggested Practices for Avian Protection on Power Lines
- IEEE 1243, Guide for Improving the Lightning Performance of Transmission Lines
- RUS Bulletin 1724E-200, Design Manual for High Voltage Transmission Lines
- RUS Bulletin 1724E-203, Guide for Upgrading Transmission Lines
- RUS Electric Bulletin 1724E-224, Electric Transmission Guide Specifications and Drawings for Steel Pole Construction - 34.5 kV to 230 kV
- RUS Electric Bulletin 1728F-810, Electric Transmission Specifications and Drawings, 34.5 kV through 69 kV
- RUS Electric Bulletin 1728F-811, Electric Transmission Specifications and Drawings, 115 kV through 230 kV
- Puerto Rico Standard *Manual para el Diseño y Construccion de Mallas Conectadas a Tierra para Subestaciones y Equipos*.

Transmission structures located within substation boundary will be grounded to the substation ground grid.

Structure grounding requirements shall take into consideration the lightning protection requirements of the transmission line and shall meet or exceed the minimum PREPA lighting performance requirements.

The maximum resistance allowed for transmission line structure grounding is 10 ohms. Refer to Steel and Concrete Pole Grounding Assembly drawings for installation requirements.

2.5 Line Switches

Line switches will comply with the following standards:

- ANSI C37.40, IEEE Standard Service Conditions and Definitions for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories
- C37.41, IEEE Standard Design Tests for High-Voltage (>1000 V) Fuses and Accessories

2.6 Audible and Radio Noise

The line design shall comply with all applicable FCC and Puerto Rico requirements for the control of radio interference and audio noise. Corona free hardware should be used at 230 kV and above.

The Engineer of Record shall provide documentation of design compliance to PREPA. Refer to Transmission Line Design Guidelines Manual for requirements.

3.0 CLEARANCE

Minimum clearances of energized parts of overhead electric transmission lines shall comply with the more restrictive of:

- ANSI C2, National Electrical Safety Code (NESC)
- PREPA, Comunicado Técnico12-02: Despejos Mínimos para Líneas Eléctricas Aéreas

Unless stated otherwise, new line clearances shall be designed for the maximum operating temperature of the respective conductor. That is, clearance shall not control ampacity.

Horizontal clearances shall include conductor blowout using the increased conductor envelope wind speed condition as identified in Section 1.4.

The design and construction of the lines should include clearance for vegetation, construction tolerances, conductor creep and allowable structure and foundation movement of the tangent and deadend structures over the life of the line.

Care must be exercised when interpreting the codes. It is possible and allowed by the codes to build an overhead line closer to a structure than you can build a structure to an overhead line. Refer to the applicable OSHA codes to determine the required clearance between a worker or his equipment maintaining a structure to an energized line.

Refer to the Transmission Line Overhead Clearances document for a full table of vertical, horizontal, and circuit to circuit clearance requirements.

4.0 RIGHT OF WAY

Right of Way is designed to contain the power line under foreseeable conditions while meeting all required clearance requirements with all applicable codes. The width of the ROW shall be wide enough to provide the required line clearance as specified by the NESC, PREPA, and RUS, including conductor blowout, plus a vegetation tolerance as defined by

PREPA. Specification and requirements are established in *Reglamento de Servidumbres para la Autoridad De Energia Electrica – No.6842 August,2004.*

The standard vegetation growth tolerance for all voltages shall be as listed in the horizontal clearance table found in the Transmission Line Overhead Clearances document.

5.0 OPERATIONAL DESIGN CRITERIA

5.1 System Operations

The installation of air break switches at 3-way line tap locations is to be analyzed and implemented on an as needed basis. Air break switch installations are to help support isolation of faulted line segments and remote outage restoration, as well as facilitate scheduled outages to segments of the line.

The location of transmission switches should be in accessible areas for operators and maintenance personnel.

Provide transmission switch equipment that can break charging current.

Subtransmission line segments operated by PREPA shall be looped, unless otherwise permitted by PREPA. Subtransmission private line segments (service drops) can be radial but shall be connected by a 3-way Gang Operated Air Breaker (GOAB) or 38 kV Sectionalizer as recommended by PREPA.

5.2 Route Selection

Route information shall be developed with consideration given to ecological, archeological, cultural, land right requirements and design practices or requirements.

Lines should be routed close to roads to provide the best access for outage restoration and to reduce construction costs. Excessive turns should be avoided to help minimize the transmission line cost by reducing the number of deadend structures.

6.0 LINE DESIGN AND DATA RECORD REQUIREMENTS

Computer modeling of all new transmission lines shall be done to ensure design accuracy, compliance to standards, and to ensure that the transmission line will be contained within the available Right of Way under foreseeable conditions. Within the transmission line

model, the Right of Way survey data, terrain, data on ecologically or archeologically sensitive locations, transmission structures, conductors, OHGWs or OPGW cables, buildings and other obstructions, LiDAR data, and where necessary aerial photographs shall be brought together to ensure complete design of the line.

PLS-CADD or other programs previously approved by PREPA shall be used in the computer aided modelling and design of the overhead transmission line. Programs such as LPILE, MFAD, CAISSON, or other programs previously approved by PREPA shall be used in the design of structure foundations. Similar programs previously approved by PREPA shall be used in the design of underground and submarine transmission systems.

The requirements for line design data records are derived from the Construction Work Plan required under RUS Bulletin 1724D-101B. This shall include not only the job folder and construction documents, but all documentation outlining the necessity of the line.

7.0 UNDERGROUND TRANSMISSION

All underground transmission designs shall comply with the following standards and documents:

- ANSI C2, National Electrical Safety Code (NESC)
- PREPA Construction Standards
- EPRI, Underground Transmission Systems Reference Book

7.1 Underground Cable and Accessories

Underground high voltage transmission cable and its accessories will comply with the following standards and documents:

- AEIC CS9, Specification for Extruded Insulation Power Cables and their Accessories Rated 46 kV through 354 kV AC.
- AEIC CG4, Guide for Installation of Extruded Dielectric Insulated Power Cable Systems Rated 69 kV through 138 kV
- AEIC CG5, Underground Extruded Power Cable Pulling Guide
- AEIC CG13, Guide for Testing Moisture Impervious Barriers Made of Laminated Foil Bonded to the Jacket of XLPE Transmission Cables
- ASTM B-3, Copper wire, soft or annealed
- ASTM B-8, Copper conductors, concentric-lay-stranded, hard, medium -hard, or soft
- ASTM B-33, Tinned Soft or Annealed Copper
- ASTM D2275, Standard Test Method for Voltage Endurance of Solid Electrical Insulating Materials Subjected to Partial Discharges (Corona) on the Surface
- EPRI, Underground Transmission Systems Reference Book (Green Book)
- ICEA P-45-482, Short Circuit Characteristics of Metallic Shields and Sheaths on Insulated Cables

- ICEA S-108-720, Extruded Insulation Power Cables Rated Above 46 through 500 kV AC
- ICEA S-66-524 (NEMA WC7-1988), Cross-Linked Thermosetting Polyethylene Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy.
- ICEA T-25-425, Guide for establishing stability of resistivity for conducting polymeric components of power cables
- ICEA T-31-610-89, Water Penetration Resistance Test, Sealed Conductor
- ICEA T-32-645, Guide for Establishing Compatibility of Sealed Conductor Filler Compound with Conducting Stress Control Material
- ICEA T-34-664, Test Method For Conducting Longitudinal Water Penetration Resistance Tests On Longitudinal Water Blocked Cables
- IEC 60287-1-1, Electric Cables – Calculation of Current Rating
- IEC 60853-2, Calculation of the cyclic and emergency current ratings of cables
- IEC 60840, Power Cables with Extruded Insulation and their Accessories for Rated Voltages Above 30 kV (Um = 36 kV) up to 150 kV (Um = 170 kV) – Test Methods and Requirements
- IEEE Std 48., IEEE Standard Test Procedures and Requirements for Alternating-Current Cable Terminations 2.5 kV through 76 5kV.
- IEEE 404, Standard for Extruded and Laminated Dielectric Shielded Cable Joints Rated 2500 V – 500,000 V
- IEEE 575, Guide for Bonding Sheaths and Shields of Single-Conductor Power Cables Rated 5 – 500 kV
- IEEE 0-7803-0219-2/91/0009-0122, Accelerated Aging of Extruded Dielectric Power Cables (ACLT), Mark D. Walton, Reynolds/CPI Technical Center National standards reference in the appendixes of the above AEIC and ICEA and NEMA standards
- NEMA WC 26-2000, Bi-National Wire and Cable Packaging Standard

A list of all Referenced Standards and Documents is contained in Appendix A.

Underground cable systems are to be chosen based upon the required ampacity, projected load growth, projected service life, ease of installation and operation, and strict compliance with the established standards.

Special consideration shall be given to cable splicing, terminations, thermal management, and duct bank construction.

7.2 Underground Cable Operating Criteria

The following operating criteria shall be established for each new underground transmission cable, on a project-specific basis:

Parameter	Design Requirement
Frequency	60 Hz
Nominal AC voltage	115 kV
Highest Service Voltage	121 kV
Basic Impulse Level (BIL)	550 kV
Daily Load Factor	TBD per project
Current Rating (90% load Factor) - Single Circuit	TBD per project
100 Hour Emergency Rating – Single Circuit	TBD per project
Maximum Normal Operation Temperature	90 degree C (CU)
Emergency Max. Conductor Temperature	105 degree C
Short Circuit Fault Current	TBD per project
Fault Duty	TBD per project
Short Circuit Conductor Temperature	250 degree C
Sheath Bonding Scheme	Single point bonding or cross bonding.

Design engineer shall calculate the 12-hour, 4-hour and 15-minute emergency ampacity with the load preceding the Emergency Ampacity being 100%, steady state.

Short circuit current and duration shall be as determined by PREPA engineering and coordinated with the cable remote end breaker settings.

7.3 Underground Cable System Operating Environment

The loading ampacity of underground transmission lines is determined by the operating environment.
The following soil and thermal parameters shall be established for each new underground transmission cable, on a project-specific basis:

Parameter	Design Requirement
Ambient soil temperature	30 degree C for preliminary calculations only
0-10 feet	30 degree C for preliminary calculations only
>10 feet	25 degree C for preliminary calculations only
Native soil thermal resistivity	0.90°C-cm/watt*
Encasement concrete	1.00°C-cm/watt
Thermal Backfill	0.65°C-cm/watt
Method of bonding / grounding sheath and armor	Single point bonding or cross bonding.
Ground Continuity Conductor	As required
Minimum Cover Over Duct Bank	36 inches

*Soil temperature profile, thermal resistivity and critical moisture to be determined by field testing. Field testing shall be by Geotherm USA or other approved source.

External heat source parameters to be as determined by PREPA when identified, in lieu of soil temperature profile by field testing.

7.4 Underground Vaults and Manholes

Underground vaults are used for pulling and splicing underground cables. All vaults shall include entrances, covers and sump depressions. Vault design shall follow these criteria:

Cable splicing shall be performed within either pre-cast or cast-in-place concrete splice vaults. All concrete used for concrete splice vaults shall be 4000 psi (minimum) strength at 28 days and meet AASHTO HS-20 or HS-25 loading standards. All reinforcing bars used within all floors, walls and roofs of concrete splice vaults shall be ASTM A615, Grade 60. A minimum 4/0 copper ground loop shall be attached to the vault rebar within the poured concrete floor, walls and roof, and shall be connected via exterior pigtails to local grounds and to the associated circuit GCC. The pigtails shall extend from the exterior walls of the vault in order to connect to the ground rods.

Construction of reinforcing bar or other magnetic (ferrous) material with the splice vault end walls where the underground cable penetrates the vault, shall not form

a closed loop around any individual cable penetration, instead, a closed loop around all cable penetration locations is required.

Each splice vault shall be fitted with a continuous ground loop of 4/0 copper attached to the inside face of the vault wall six inches below the vault ceiling. This ground shall be bonded to the interior installed 4/0 copper ground loop of the concrete vault. The ground loop shall include pig-tails as needed for grounding/bonding the cable splice and link boxes. 10-foot ground rods shall be driven in opposite corners outside the vault and tied to the 4/0 copper ground loop. The ground shall be bonded to the facility ground grid or at remote locations, independent grounding electrodes.

The circuit grounding scheme shall be finalized by each unique splice vault location, for example, grounds shall be bonded to the facility ground grid (inside a substation) or at remote locations (outside a substation), independent grounding electrodes shall be installed.

The splice vault shall be sized to provide adequate length for splicing the cable, including internal headroom of not less than 8 feet. Not more than one circuit should be housed within a single splice vault.

Cables shall be racked along one wall equally spaced vertically with adequate room between each to allow splicing and maintenance. Cable racks shall be designed to support the cable and of sufficient strength to resist Thermal Mechanical Bending (TMB) stresses resulting from cable heating/cooling. Cable racking shall be non-corrosive or cathodically protected.

Ingress/Egress to the splice vault shall be provided by manholes fitted in the roof. Manhole openings shall be not less than three feet in diameter with a double-ring lid. Manholes shall be located offset from the centerline of the manhole roof toward the side away from the cable racking.

Manhole cable penetrations shall be formed using Meadow-Burke bell end duct terminations or approved equal. Duct penetrations on each end of the manhole shall be aligned and level with the first 8 feet of duct outside the manhole being straight and level.

7.5 Cable Construction

Underground transmission cable shall include:

- Conductor – Copper or Aluminum per project cost effectiveness
- Insulation – Extruded XLPE
- Longitudinal Water Blocking tape

- Utilize metal moisture barrier

7.6 Cable System Components

All cable system components shall be supplied by the cable manufacturer as a complete cable system. The cable and components shall be certified and qualification tested as a system.

Cable system components include:

- Splices - Factory fabricated, pre-molded splice kit complying with AEIC CS9 and IEEE 404. Provide sheath interrupts as required by the designed bonding scheme. Splice shall be designed for direct burial or for a duct bank installation inside a manhole as indicated on the design drawings.
- Cable Terminations - Factory fabricated termination kit including all mounting bolts, seals, bonding and ground connections. Bonding/grounding connections shall be removable for testing. Termination kit shall include sheath wiping sleeves to maintain hermetic sealing of the cable system. Liquid filled terminators shall be field fillable using non-hazardous dielectric fluid such as silicone oil or other approved product. Pollution class shall be Class D (Heavy). Aerial Lug shall be Nema 4-hole pad.

- Ground Continuity Conductor - Ground continuity conductor (GCC) shall be provided when the underground cable connects two remote substations. The GCC shall be 4/0 copper insulated cable sized to carry the maximum short circuit rating. Circuits with multiple cables per phase may require additional GCC's to accommodate each set of phase cables.

- Sheath Grounding - Sheath grounding/bonding, link boxes and sheath voltage limiters shall be of a coordinated design sized for the calculated standing and emergency load sheath voltage. Bonding conductors shall be no less than 4/0 copper. Waterproof Link box shall be equipped with removable solid links and, if required, sheath voltage limiters. Sheath voltage limiters shall be metal-oxide in accordance with IEEE C6.11. The maximum sheath open circuit voltage shall be limited to later volts during normal operation and 10 kV during fault conditions. The link boxes shall be mounted to the top wall of the splicing vaults.

8.0 SUBMARINE TRANSMISSION

8.1 Submarine Cable General Requirements

Where practicable, design criteria established for terrestrial underground transmission cable shall also apply to submarine cable with the following as usual and "best practice" deviations .

See Specification for Submarine cables. Submarine cable system design is generally, in accordance with guidance in the following standards and document:

- DNV-GL-RP-0360 Subsea Power Cables in Shallow Water
- DNV-GL-RP-0046 Qualification procedure for offshore high-voltage direct current (HVDC) technologies
- DNV-RP-F401 Electrical Power Cables in Subsea Applications
- Cigre TB490 Recommendations for testing of long AC submarine cables with extruded insulation for system voltage above 30 (36) to 500 (550) kV
- Cigre TB610 Offshore generation cable connections
- Cigre TB623 Recommendations for mechanical testing of submarine cables
- Cigre TB722 Recommendations for additional testing for submarine cables from 6 kV (Um = 7.2 kV) up to 60 kV (Um = 72.5 kV)
- Offshore Site Investigation and Geotechnics Committee (OSIG) (2014): Guidance notes for the planning and execution of geophysical and geotechnical ground investigations for offshore renewable energy developments.

8.1.1 Submarine transmission cables are not expected to be dynamic, however if a design calls for a dynamic cable then conductor, sheath, armor and other components in cables exposed to dynamic loading shall be qualified with respect to fatigue. Failure of one conductor strand shall be considered test failure. The safety factor on fatigue life, determined by calculation or testing, shall not be smaller than 10.

8.1.2 Cable conductor, sheath, armor and other components suspended, subjected to dynamic loads or otherwise unsupported during installation or service shall be designed to minimize creep and potential buckling. The submarine cable installation process shall be designed and executed to minimize dynamic loading to be within the capabilities of the selected cable.

8.2 Installation Conditions

Whilst measured values of installation conditions are preferable, it is recognized that obtaining such data, particularly in the early design phases of a project is difficult. The following underwater soil and thermal parameters can be used, however it is strongly recommended that an adequate margin of error be included for thermal effects on ampacity at pinch points such as ducts, HDD, crossings and pull-ins, with actual field data being preferable, albeit difficult to obtain and usually associated with high levels of variability.

Parameter	Design Requirement
Preliminary maximum ambient water temperature at seabed	12 degree C
Preliminary native submerged saturated soil thermal resistivity	1.00°C-cm/watt
Permeability	Assume clay/dense sand seabed therefore excluding convection effects.
Preliminary HDD duct condition	Assume grout filled with 0.9°C-cm/watt

8.3 Submarine Cable Construction

Submarine transmission cable shall include:

- Conductor – Copper or aluminum
- Insulation – XLPE
- Armor – single layer helically wound galvanized steel or steel/aramid “low magnetic” mix
- Serving – Over-wrapped yarn, bitumastic impregnation to armor colored/striped yellow/black, specification and length markers printed or taped on cable

9.0 APPENDICES

Appendix A: Referenced Standards and Documents

APPENDIX A

REFERENCED STANDARDS AND DOCUMENTS

Appendix A: Referenced Standards and Documents

- ACI 318-14, Building Code Requirements for Structural Concrete
- AISC 360-16, Specification for Structural Steel Buildings
- ANSI C2, National Electrical Safety Code (NESC)
- APLIC, Suggested Practices for Avian Protection on Power Lines
- ASCE 48-11, American Society of Civil Engineers Manuel Design of Steel Transmission Pole Structures
- ASCE SCE 10-15, Design of Latticed Steel Transmission Structures
- ASCE 74-20, Guidelines for Electrical Transmission Line Structural Loading
- ASCE 91-97, Design of Guyed Electrical Transmission Structures
- ACSE 123-12, Prestressed Concrete Transmission Pole Structures
- ANSI C29, Insulators
- ANSI C84, Electric Power Systems – Voltage Ratings
- ANSI C57.12.31, IEEE Standard for Pole-Mounted Equipment
- ANSI C57.15, Standard Requirements - Terminology
- ANSI C57.131, IEEE Standards for Load Tap-Changing Transformers
- ANSI C37.66, IEEE Standard Requirements for Capacitor Switches
- ANSI C37.99, IEEE Guide for the Protection of Shunt Capacitor Banks
- ANSI C37.60, IEEE/IEC High-Voltage Switchgear
- ANSI C37.40, IEEE Standard Service Conditions and Definitions for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories
- ANSI C37.41, IEEE Standard Design Tests for High-Voltage (>1000 V) Fuses and Accessories
- ANSI C37.42, IEEE Standard Specifications for High-Voltage Fuses
- ANSI C37.63, IEEE Standard Requirements for Overhead, Pad-Mounted, Dry-Vault, and Submersible Automatic Line Sectionalizers for AC Systems
- ANSI C62.11, IEEE Standard for Metal-Oxide Surge Arrestors
- ANSI/IEEE 1024, IEEE Recommended Practice for Specifying Distribution Composite Insulators (Suspension Type)
- ASTM B230 / B230M – 07, Standard Specification for Aluminum 1350–H19 Wire for Electrical Purposes
- ASTM B231 / B231M – 12, Standard Specification for Concentric Lay Stranded Aluminum 1350 Conductors
- ASTM B232 / B232M – 11, Standard Specification for Concentric Lay Stranded Aluminum Conductors, Coated Steel Reinforced (ACSR)

- ASTM B498 / B498M – 08, Standard Specification for Zinc Coated (Galvanized) Steel Core Wire for Use in Overhead Electrical Conductors
- ASTM B606 – 08, Standard Specification for High Strength Zinc Coated (Galvanized) Steel Core Wire for Aluminum and Aluminum Alloy Conductors, Steel Reinforced
- ASTM B856 – 12, Standard Specification for Concentric Lay Stranded Aluminum Conductors, Coated Steel Supported (ACSS)
- ASTM B957 – 08, Standard Specification for Extra High Strength and Ultra High Strength Zinc Coated (Galvanized) Steel Core Wire for Overhead Electrical Conductors
- EPRI, Handbook for Improving Overhead Transmission Line Lightning Performance
- EPRI, AC Transmission Line Reference Book – 200 kV and Above
- EPRI, Outline of Guide for Application of Transmission Line Surge Arrestors – 42 to 765 kV
- FAA, Advisory Circular AC 70/7460-1K, Obstruction Marking and Lighting
- PCI, Guide Specifications
- IEEE 738, Standard for Calculating Current-Temperature Relationship of Bare Conductors
- IEEE 1243, Guide for Improving the Lightning Performance of Transmission Lines
- IEEE 18-2012, Standard for Shunt Power Capacitors
- IEEE 28-1974
- NEMA WC 26-2000, Bi-National Wire and Cable Packaging Standard
- RUS Electric Bulletin 1724D-101B, System Planning Guide, Construction Work Plans
- RUS Electric Bulletin 1724D-106 Considerations For Replacing Storm-Damaged Conductors
- RUS Electric Bulletin 1724E-153, Electric Distribution Line Guys and Anchors
- RUS Bulletin 1724E-154, Distribution Conductor Clearances and Span Limitations
- RUS Bulletin 1724E-200, Design Manual for High Voltage Transmission Lines
- RUS Bulletin 1724E-203, Guide for Upgrading Transmission Lines
- RUS Electric Bulletin 1724E-204, Guide Specifications for Steel Single Pole and H-Frame Structures
- RUS Electric Bulletin 1724E-205, Design guide: Embedment depths for Concrete and Steel Poles
- RUS Electric Bulletin 1724E-206 Guide Specifications for Prestressed Concrete Poles and Concrete Pole Structures
- RUS Electric Bulletin 1724E-214, Guide Specification for Standard Class Steel Transmission Poles
- RUS Electric Bulletin 1724E-216, Guide Specification for Standard Class Prestressed Concrete Transmission Poles
- RUS Electric Bulletin 1724E-220, Procurement and Application Guide for Non-Ceramic Composite Insulators, Voltage Class 34.5 kV and Above
- RUS Electric Bulletin 1724E-224, Electric Transmission Guide Specifications and Drawings for Steel Pole Construction - 34.5 to 230 kV
- RUS Electric Bulletin 1724E-226, Electric Transmission Guide Specifications and Drawings for Concrete Pole Construction - 34.5 to 230 kV
- RUS Electric Bulletin 1728F-700, Specification for Wood Poles, Stubs and Anchor Logs
- RUS Electric Bulletin 1728F-800, Construction Assembly Unit Numbers and Standard Format

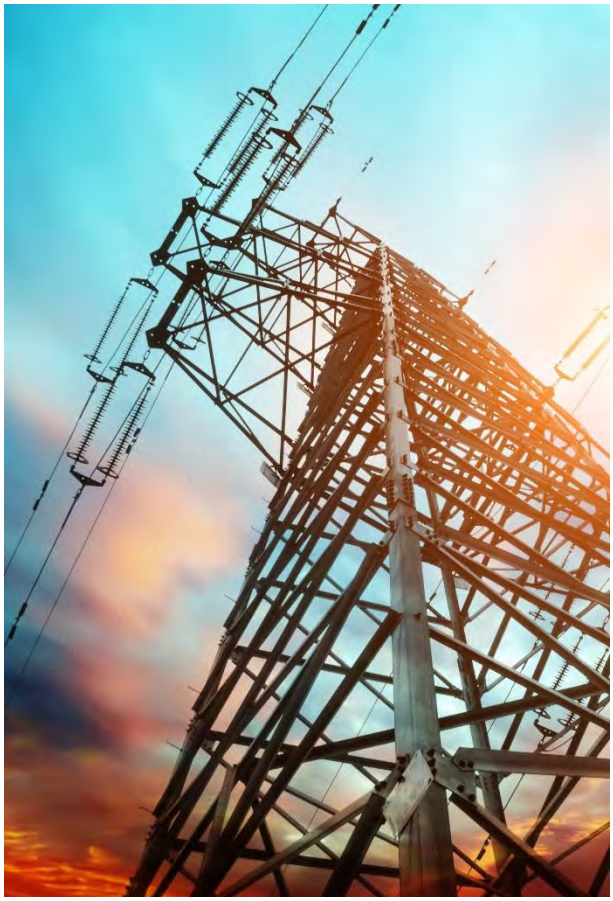
- RUS Electric Bulletin 1728F-810, Electric Transmission Specifications and Drawings, 34.5 kV through 69 kV
- RUS Electric Bulletin 1728F-811, Electric Transmission Specifications and Drawings, 115 kV through 230 kV
- RUS Electric Bulletin 1728H-701 Specification for Wood Cross-arms, Transmission Timbers and Pole Keys
- RUS Electric Bulletin 1730-B2 Guide for Electric System Emergency Restoration Plan
- PREPA, Comunicado Técnico 95-01: Acometida Soterrada de 38 kV con doble conductor de 800 MCM
- PREPA, Comunicado Técnico 97-01: Diseño de Líneas Soterradas de 38 kV en conductor 800 MCM
- PREPA, Comunicado Técnico 12-06: subestaciones privadas de 115 y 38 kV
- JNT-USE-ATT PREPA Specification for Joint Use Attachments on Utility Poles
- TOH-020606-001 PREPA Specification for Aerial Fiber Optic Cables
- TOH-690003-001 PREPA Steel Transmission Pole Specification
- TOH-690003-002 PREPA PLS-CADD Design Guidelines
- TOH-690003-003 PREPA Transmission Line Design Guidelines Manual
- TOH-690003-004 PREPA Transmission Line Overhead Clearances
- TOH-640501-003 PREPA Steel Pole Grounding Assembly
- TOH-640501-004 PREPA Concrete Pole Grounding Assembly
- TOH-650004-002 PREPA Geotechnical Design Guidelines for Transmission Line Foundations

Autoridad de Energía Eléctrica Puerto Rico Manuales y Comunicados

- *Manual para el Diseño y Construcción de Mallas Conectadas a Tierra para Subestaciones y Equipos*
- *Reglamento de Servidumbres para la Autoridad de Energía Eléctrica*
- *Manual de Normas de Alumbrado Publico*

Exhibit B

Substation Design Criteria



SUBSTATION DESIGN CRITERIA

May 2021

PREPA
Commonwealth of Puerto Rico

Puerto Rico Electric Power Authority
Office 313, NEOS Building
1110 Ponce de León Avenue
Santurce, P.R. 00908

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To FEMA ***Maricarmen Rivera Castro***

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1.0 GENERAL

1.1 Summary

The objective is to establish substation design criteria and practices that define the application of storm hardening to the power grid. Guidance on industry storm hardening practices shall be taken from the Rural Utility Substations (RUS) standards and Industry accepted Standards published by ANSI, NEMA, NESC, NEC, and Puerto Rico Building Code, among others as listed within this document. The implementation of the physical and electrical design criteria described herein shall provide investment grade utility solutions which are well-coordinated with accepted industry standards.

This PREPA Design Criteria Document shall serve as a basis to establish and finalize storm hardening criteria for the electrical system which will result in a resilient, reliable, and modern power grid.

The objective of the Substation Design Criteria with storm hardening features shall include the issues listed below:

1.1.1 Review, and if warranted, increase in the insulator contamination level at the 230 kV and 115 kV voltage classes due to salt air exposure. The use of extra-high leak insulators for the substation outdoor open-air equipment at these voltage classes should be considered. IEEE standards for the local environment shall be followed.

1.1.2 230 kV and 115 kV electrical power system backbone shall be reviewed station by station to assure that critical electrical infrastructure is configured in reliable protection arrangements to minimize single failure contingencies. The design shall incorporate a backup system functionality through physical design arrangements, as well as the protection system operating philosophy. The upgrade to the infrastructure shall allow the electrical system to sectionalize and isolate faulted components during outage scenarios, minimizing the number of impacted electrical grid customers.

1.1.3 Incorporate Puerto Rico electrical system storm hardening directives that establish system equipment and design criteria ratings and recommend design equipment and components capable of enhanced sustainability during catastrophic events.

1.1.4 Long-existing legacy distribution voltages of 4.16 kV, 4.8 kV, 7.2 kV, and 8.32 kV will remain operating within the PREPA power grid for the near future. Upgrade of the legacy distribution level voltages to a 13.2 kV standard distribution voltage should be considered. Beginning at the substation, a method to accomplish this voltage upgrade transition will be to specify a transition-specific distribution substation power transformer for substations with existing legacy distribution voltages with multi-voltage winding secondary and series-parallel multi-voltage winding to allow the systematic transition of circuits operating at legacy voltages to the new 13.2 kV standard.

1.1.5 As the backbone of the Puerto Rico power grid, a thorough review of the existing 230 kV and 115 kV transmission and substation network to identify top-down components and auxiliary support systems in need of upgrade and physical replacement / repair will need to be completed. This will include high voltage (HV) protection equipment (i.e. circuit breakers), and other HV infrastructure including power transformers, conductors, connections, air switches, surge arresters, and associated voltage and current sensing equipment. It will also include review and assessment of the control building, the condition of protection and communication system components, AC and DC secondary power system, control and protection system interconnections, grounding grid interconnections, the station's operational functionality, and an overall electrical continuous current rating and fault current rating coordination review.

1.1.6 A review of all existing 230 kV and 115 kV stations and perform upgrades to a breaker and one-half arrangements as a standard configuration to assure a high level of operational reliability at these voltage levels.

1.1.7 A review of existing structural and civil supporting systems for substation equipment, transmission line terminal conductor tensions, and substation bus support configurations will be completed. This includes structure and foundation analysis which support static and dynamic load criteria conditions imposed by equipment and conductors as well as environmental load factors outlined in the separate Substation Civil Design Criteria Document (DCD).

1.1.8 Provide hurricane resistant designs by lessening the structural load factor by decreasing wind resistance.

1.1.5 Develop standard and modern substation design arrangements at 46 kV and 15 kV voltage classes to integrate with the 230 kV and 115 kV transmission infrastructure for coordinated design development and facility betterments at PREPA substation facilities. Standard 38 kV and 13.2 kV substation configurations include bus and conductor spacings, clearances, conductor ratings and insulation coordination levels which comply with industry and PREPA maintenance criteria which will provide enhanced reliability and supporting infrastructure reinforcement.

1.1.6 Establish standardized equipment technical specifications which are written to provide updated industry standards and technology and coordinate to accepted industry criteria consistent with power system reinforcement initiatives, system coordination, and protection philosophy.

1.1.7 Modernize substation equipment and components with a standardized design replacing oil insulated equipment with vacuum and gas-insulated equipment and employing modern enhanced protection intelligence and operating system communication and interface.

1.1.8 Implement smart-grid technology into the upgraded electrical system to enable system faults to be quickly isolated from the grid to localize outages to smaller affected areas while maintaining service to most of the power grid.

1.1.9 Institute a comprehensive vegetation management and debris removal program to minimize the potential of electrical system damage due to high-wind events such as experienced during hurricane Maria. Within the substation, an herbicide shall be applied as referenced in the Substation Civil DCD prior to the placement of the aggregate finish grade surface as defined in the Yard Development and Fencing standard for the purpose of vegetation management.

1.1.10 Substation assets shall be hardened, including but not limited to transformers, circuit breakers, associated switchgear, and control equipment (including protection relays and communications gear). Revised Flood Insurance Rate Maps (FIRM) should be used to site substation assets to avoid Base Flood Elevation (BFE) + 3.0 feet or 0.2% flood elevation, whichever is higher. In addition, siting should be outside of the floodplain whenever possible and existing critical stations shall be raised and/or waterproofed accordingly. Design for flood resistance shall be in accordance with ASCE 24-14. In addition to relocation, detailed power system simulation will provide insights on which assets to harden and in what priority.

2.0 STANDARDS AND REFERENCE DOCUMENTS

The following lists material and equipment standards and other referenced documents and design guides to be employed for the design, purchase, and construction of the high and medium voltage utility-grade electric power facilities. The electrical design of new substations shall be in accordance with applicable industry codes/standards, including standards/specifications and design guides in effect as of the issue-date of this Design Criteria Document, unless subsequent design criteria addendums have been issued and accepted by PREPA.

2.1 Applicable Federal, Commonwealth, Local Codes and Standards

Applicable Federal, Commonwealth, and Local Codes and Standards shall also be observed. A summary of the latest Industry Codes and Standards to be used are as follows:

Industry References

- Puerto Rico Building Code (PRBC) [To be used for control rooms & buildings only]
- RUS 1724E-300, U.S. Dept. of Agriculture Design Guide for Rural Substations
- Code of Federal Regulations (CFR)
- American National Standards Institute (ANSI)
- National Electrical Manufacturers Association (NEMA)
- National Electrical Safety Code (NESC)
- National Electrical Code (NEC)
- North American Electric Reliability Corporation (NERC)
- American Institute of Steel Construction (AISC)
- American Society for Testing and Materials International (ASTM)
- American Concrete Institute (ACI)
- American Welding Society (AWS)
- Institute of Electrical and Electronics Engineers (IEEE)
- Construction Specifications Institute (CSI)
- National Fire Protection Association (NFPA)
- Illuminating Engineering Society (IES)
- International Electrotechnical Commission (IEC)
- Telecommunications Industry Association (TIA)
- Building Industry Consulting Services International (BICSI)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- American Society of Civil Engineers (ASCE)
- General Owner Standard References

2.2 PREPA Design Criteria Reference Documents (in development)

- Substation Civil Design Criteria
- Protection and Controls Design Criteria
- Telecomm Design Criteria
- Transmission Design Criteria
- Distribution Design Criteria
- PREPA Design Standards and Procurement Specifications
- Manual of Standard of Distribution Underground

2.3 Service Conditions

Design Criteria & System Parameters	
Outdoor Service Conditions	
Risk Category	Category IV (Unless noted otherwise)
Ambient Temperature	5 °C to 45 °C (41 °F to 113 °F)
Maximum Wind (ASCE MOP 74-20) (from Substation Civil DCD)	Basic Wind Speed: 160 mph** Exposure Category: C PREPA Overload Factor, OLF:1.1 Velocity Pressure Exposure Coefficient, Kz:1.15 Design Wind Pressure, q_z: 78 psf
Wind Loads for Deflection (ASCE 7-16, 10-year MRI)	Basic Wind Speed: 90 mph
Minimum Wind on Buildings (Puerto Rico Building Code)	Wind Pressure Design by PRBC
Elevation	<= 3,300 ft AMSL
Minimum Wind	2 ft./sec.
Seismic Force (from Substation Civil DCD)	0.2-second acceleration: Ss = 1.35 1-second acceleration: S1 = 0.53 Importance Factor: 1.5 Site Classification: D
Lightning Flash Density	High
Contamination Level	All equipment & designs shall account for heavy contamination in coastal areas.

** Refer to Substation Civil DCD, Appendix A for detailed explanation of wind loading.

2.4 Electrical Design Criteria & System Parameter Tables

Design Criteria & System Parameters	
Electrical System Parameters – 230 kV Open Air System	
Nominal Voltage	230 kV Line to Line
Maximum Design Level Voltage Class	242 kV
Basic Impulse Level	900 kV
Contamination Level	Heavy Coastal
Design Continuous Amperage (As defined by System Study)	2000 / 3000 Amps (primary conductor rating)
Fault Current Level (Equipment) (As defined by System Study)	40 / 50 / 63 kAIC (RMS Symmetrical)
Grounding	Grounded Wye
Post Project 3 Phase-Fault Current (As defined by System Study fault model)	40 kA (3L-Gnd) (Basis for Standards Development)
3 Phase Fault Current for Bus Design (Or as defined by System Study fault model) plus 15% design margin	40 kA (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study fault model) plus 15% design margin	40 kA (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 64 / 80 / 101 kA 104 / 130 / 164 kA
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
Zero Sequence Reactance / Positive Sequence Reactance (X0/X1) (Or as defined by System Study fault model)	3.0 or less (Basis for Standards Development)
Zero Sequence Resistance / Positive Sequence Reactance (R0/X1) (Or as defined by System Study fault model)	1.0 or less (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)

Note: Ratings to be confirmed during design. System studies must be conducted.

Design Criteria & System Parameters	
Electrical System Parameters – 115 kV Open Air System	
Nominal Voltage	115 kV Line to Line
Maximum Design Level Voltage Class	121 kV
Basic Impulse Level	550 kV
Contamination Level	Heavy Coastal
Design Continuous Amperage (As defined by System Study)	2000 / 3000 Amps (primary conductor rating)
Fault Current Level (Equipment) (As defined by System Study)	40 / 50 / 63 kAIC (RMS Symmetrical)
Grounding	Grounded Wye
Post Project 3 Phase-Fault Current (Or as defined by System Study fault model)	40 kA (3L-Gnd) (Basis for Standards Development)
3 Phase Fault Current for Bus Design (Or as defined by System Study fault model) plus 15% design margin	40 kA (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study) plus 15% design margin	40 kA (fault model) (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 64 / 80 / 101 kA 104 / 130 / 164 kA
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
Zero Sequence Reactance / Positive Sequence Reactance (X0/X1) (Or as defined by System Study fault model)	3.0 or less (Basis for Standards Development)
Zero Sequence Resistance / Positive Sequence Reactance (R0/X1) (Or as defined by System Study fault model)	1.0 or less (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)

Note: Ratings to be confirmed during design. System studies must be conducted.

Design Criteria & System Parameters	
Electrical System Parameters – 38 kV Open Air System	
Nominal Voltage	38 kV Line to Line
Maximum Design Level Voltage Class	48.3 kV
Basic Impulse Level	250 kV
Contamination Level	Medium Coastal
Design Continuous Amperage (As defined by System Study)	1200 / 2000 / 3000 Amps (primary conductor rating)
Fault Current Level (Equipment) (Or as defined by System Study fault model)	40 kAIC (RMS Symmetrical)
Grounding	Grounded Wye
Post Project 3 Phase-Fault Current (Or as defined by System Study fault model)	40 kA (3L-Gnd) (Basis for Standards Development)
3 Phase Fault Current for Bus Design (Or as defined by System Study) plus 15% design margin	40 kA (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study) plus 15% design margin	40 kA (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 40 / 50 / 60 kA (outdoor switch rating) 64 / 80 / 104 kA (outdoor switch rating)
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
Zero Sequence Reactance / Positive Sequence Reactance (X0/X1) (Or as defined by System Study fault model)	3.0 or less (Basis for Standards Development)
Zero Sequence Resistance / Positive Sequence Reactance (R0/X1) (Or as defined by System Study fault model)	1.0 or less (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)
Animal Mitigation	Per IEEE 1264

Note: Ratings to be confirmed during design. System studies must be conducted.

Design Criteria & System Parameters	
Electrical System Parameters – 13.2 kV Open Air System	
Nominal Voltage	13.2 kV Line to Line
Maximum Design Level Voltage Class	15 kV
Basic Impulse Level	110 kV
Contamination Level	Medium Coastal
Design Continuous Amperage	1200 / 2000 Amps (primary conductor rating)
Fault Current Level (Equipment)	20 kAIC (RMS Symmetrical) validated by system study
Grounding	Grounded Wye
Post Project 3 Phase-Fault Current (Or as defined by System Study)	20 kA (3L-Gnd) (Basis for Standards Development)
3 Phase Fault Current for Bus Design (Or as defined by System Study) plus 15% design margin	20 kA (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study)	20 kA (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study) plus 15% design margin	20kA (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 61 kA (outdoor switch rating) 100 kA (outdoor switch rating)
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	20 kA (Basis for Standards Development)
Zero Sequence Reactance / Positive Sequence Reactance (X0/X1) (Or as defined by System Study fault model)	3.0 or less (Basis for Standards Development)
Zero Sequence Resistance / Positive Sequence Reactance (R0/X1) (Or as defined by System Study fault model)	1.0 or less (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)
Animal Mitigation	Per IEEE 1264

Note: Ratings to be confirmed during design. System studies must be conducted.

Design Criteria & System Parameters	
Electrical System Parameters – 230 kV Indoor (GIS)	
System Frequency	60 Cycles
Nominal Voltage	230 kV Line to Line
Maximum Design Level Voltage Class	245 kV
Basic Impulse Level	1050 kV
Design Continuous Amperage	3150/4000 Amps
Fault Current Level (Equipment)	40/50/63kA IC RMS Symmetrical
Interrupting Time	3 Cycles
Short-Time Withstand Current, 3 Second	50 kA
Rated Close and Latch	135 kA
Rated Peak Withstand Current	135 kA
Grounding	Solidly Grounded
Power Frequency Withstand Voltage Across Open Contacts	530 kV
Power Frequency Withstand Voltage	460 kV
Power Project 3 Phase-Fault Current (Or As defined by System Study fault model)	40 kA (3L-Gnd) (fault model) (Basis for Standards Development)
3 Phase Fault Current for Bus Design (OR as defined by System Study fault model) plus 15% design margin	40 kA (RMS Symmetrical) (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study fault model)	40 kA Amps (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study fault model) plus 15% design margin	50 kA (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 64/80/100 kA (switchgear rating) 104/130/164 kA (switchgear rating)
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)
AC Power Requirement	208Y/120VAC – 3 Phase
DC Power Requirement	48/125VDC

Note: Ratings to be confirmed during design. System studies must be conducted.

Design Criteria & System Parameters	
Electrical System Parameters – 115 kV Indoor (GIS)	
System Frequency	60 Cycles
Nominal Voltage	115 kV Line to Line
Maximum Design Level Voltage Class	123 kV
Basic Impulse Level	550 kV
Design Continuous Amperage	2000 / 3000 Amps
Fault Current Level (Equipment)	40/50/63kA IC RMS Symmetrical
Interrupting Time	3 Cycles
Short-Time Withstand Current, 3 Second	40kA
Rated Close and Latch	62kA
Rated Peak Withstand Current	104kA
Grounding	Solidly Grounded
Power Frequency Withstand Voltage Across Open Contacts (1 Minute Dry)	260 kV
Power Frequency Withstand Voltage (10s Wet)	230 kV
Power Project 3 Phase-Fault Current (Or As defined by System Study fault model)	40kA (3L-Gnd) (fault model) (Basis for Standards Development)
3 Phase Fault Current for Bus Design (OR as defined by System Study fault model) plus 15% design margin	40kA (RMS Symmetrical) (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study fault model)	40kA Amps (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study fault model) plus 15% design margin	40kA (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 64/80/100kA (switchgear rating) 104/130/164kA (switchgear rating)
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	40kA (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)
AC Power Requirement	208Y/120VAC – 3 Phase
DC Power Requirement	48/125VDC

Note: Ratings to be confirmed during design. System studies must be conducted.

Design Criteria & System Parameters	
Electrical System Parameters – 38 kV Indoor (GIS)	
System Frequency	60 Cycles
Nominal Voltage	38 kV Line to Line
Maximum Design Level Voltage Class	42 kV
Basic Impulse Level	250 kV
Design Continuous Amperage	1200/2000 Amps
Fault Current Level (Equipment)	40 kAIC RMS Symmetrical
Interrupting Time	3 Cycles
Short-Time Withstand Current, 3 Second	40 kA
Rated Close and Latch	40 kA
Rated Peak Withstand Current	104 kA
Grounding	Solidly Grounded
Power Frequency Withstand Voltage Across Open Contacts (1 Minute Dry)	80 kV
Power Frequency Withstand Voltage	80 kV
Power Project 3 Phase-Fault Current (Or As defined by System Study fault model)	40 kA (3L-Gnd) (fault model) (Basis for Standards Development)
3 Phase Fault Current for Bus Design (OR as defined by System Study fault model) plus 15% design margin	40 kA (RMS Symmetrical) (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study fault model)	40 kA Amps (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study fault model) plus 15% design margin	40 kA (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 40/50 /60 kA (switchgear rating) 64/80/104 kA (switchgear rating)
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	40 kA (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)
AC Power Requirement	120/240VAC - 1 Phase
DC Power Requirement	48/125VDC

Note: Ratings to be confirmed during design. System studies must be conducted.

Design Criteria & System Parameters	
Electrical System Parameters – 13.2 kV Indoor (GIS)	
System Frequency	60 Cycles
Nominal Voltage	13.2 kV Line to Line
Maximum Design Level Voltage Class	15 kV
Basic Impulse Level (full wave withstands)	110 kV
Design Continuous Amperage	1200/2000 Amps
Fault Current Level (Equipment)	31.5 kAIC (RMS Symmetrical)
Interrupting Time	5 Cycles
Short-Time Withstand Current, 3 Second	31.5 kA
Rated Close and Latch	48 kA
Rated Peak Withstand Current	80 kA
Grounding	Solidly Grounded
Power Frequency Withstand Voltage Across Open Contacts (1 Minute Dry)	36 kV
Post Project 3 Phase-Fault Current	31.5 kA (3L-Gnd)
3 Phase Fault Current for Bus Design (Or as defined by System Study fault model) plus 15% design margin	31.5 kA (Basis for Standards Development)
Post Project 1 Line to Ground Fault Current (Or as defined by System Study fault model)	31.5 kA (Basis for Standards Development)
Line to Ground Fault Current for Ground Grid Design (Or as defined by System Study fault model) plus 15% design margin	31.5 kA (Basis for Standards Development)
Min. Withstand Fault Capability: • RMS Asymmetrical (Momentary) • Peak Asymmetrical	 50 kA (switchgear rating) 80 kA (switchgear rating)
Post Project Line-Line Fault Current (Or as defined by System Study fault model)	31.5 kA (Basis for Standards Development)
System Reactance / Resistance (X/R)	17.0 (Basis for Standards Development)
AC Power Requirement	120/240VAC - 1 Phase
DC Power Requirement	48/125VDC

Note: Ratings to be confirmed during design. System studies must be conducted.

Electrical System Parameters - AC Station Service	
Primary Station Service Voltage	13,200 Delta / 7620V / 3 Phase / 60Hz
Nominal AC Voltage (38 kV & 13.2 kV)	120/240V/1 Ph/60 Hz
Nominal AC Voltage (115 kV & 230 kV)	208Y/120V/3 Ph/60 Hz

3.0 ELECTRICAL CLEARANCES

3.1 Yard Clearances

The substation shall be designed to provide at a minimum, the yard clearances and spacing in Table 3-1. Equipment spacing shall be in accordance with the applicable codes.

Table 3-1
Yard Minimum Clearances

Nominal Operating Voltage (L-L)[1,2], kV Nominal	Basic Impulse Level (BIL)[1,2], kV Peak	Minimum Phase-to-Phase, Metal-to-Metal, Inches	Minimum Phase-to-Ground, Metal-to-Metal,[1] Inches
230 (245 kV Class)	900	89	71
115 (123 kV Class)	550	53	42
38 (46 kV Class)	250	21	17
13.2 (15 kV Class)	110	12	7

[1] ANSI C37.30.1 Table 14

[2] NESC, Section 12 (Table 124-1)

Note: Ratings to be confirmed during design. System studies must be conducted.

3.2 Outdoor Bus Clearances & Spacings (based on NESC Table 124-1 & ANSI C37.30.1 Table 14)

Bus elevation above top of foundation

230 kV: 22’-0” Rigid Low Bus

230 kV: 33’-0” Rigid High Bus

115 kV: 16’- 0” Rigid Low Bus

115 kV: 23’-0” Rigid High Bus

38 kV: 12’ - 0” Rigid Bus

13.2 kV: 10’-0” Rigid Bus

Standard Phase Spacings (based on ANSI C37.30.1 Table 14)

230 kV: 11’-0” Minimum Center to Center

115 kV: 7’–0” Minimum Center to Center

38 kV: 4’–0” Minimum Center to Center

13.2 kV: 2’-0” Minimum Center to Center

The substation bus and conductor shall be designed to maintain the clearances and spacing in Table 3-1 and Table 3-2. The values given below shall be treated as the minimum allowed correlating to the application with each type of air switch.

Table 3-2
Outdoor Electrical Substation Clearances
Bus and Air Switches

Nominal Operating Voltage (Ph-Ph), kV Nominal	Basic Impulse Level (BIL), kV Peak	Vertical Clearance of Unguarded Parts, [2] Inches	Horizontal Clearance of Unguarded Parts, [2] Inches	Vertical Break Disconnecting Switches, [1] Inches	Side Break Disconnecting Switches, [1] Inches	Phase-to-Phase, Center-to-Center,[1] Inches
230	900	165	99	132	192	192
115	550	139	73	84	108	120
38	250	118	52	48	60	72
13.2	110	108	42	24	30	36

[1] ANSI C37.30.1 Table 14 – Outdoor Air Switches, Centerline to Centerline Spacing

[2] NESC, Section 12, Table 124-1, Fig. 124-1

Note: Ratings to be confirmed during design. System studies must be conducted.

4.0 HIGH & MEDIUM VOLTAGE BUS SYSTEM & HARDWARE

4.1 Owner Standard References

PREPA Design Standards and Procurement Specifications

4.2 Bus

The aluminum rigid bus system shall be designed in accordance with ASTM B188, PREPA Physical Design Criteria Standard.

Bus conductor size for each substation facility will be determined based on load flow criteria established in a system load-study and verified with a coordinated technical review of equipment ratings, and transmission line load capability.

4.3 Conductors

Conductors for equipment leads, drops, and strain bus conductor shall be designed at a minimum in accordance with Section 4.10 and 4.12 - as applicable to aluminum conductors only in the RUS Bulletin 1724E-300.

Conductor leads for substation equipment bushings and equipment terminals shall consist of conductor sized for the continuous current rating. Conductor is to be rated for 125% of the connected equipment continuous current nameplate rating.

Conductor for breaker and one-half main bus configuration shall be capable of 150% of line terminal circuit breaker ratings. Breaker and one-half line terminal conductor shall be rated at 125% of the connected circuit breaker continuous current nameplate rating.

When connected equipment (circuit breaker) continuous current rating is over-rated for application, substation conductor rating shall be 125% of transmission line terminal conductor continuous current rating.

Conductor for voltage sensing equipment and surge arresters will be sized and rated to withstand available system and equipment short-circuit values above the selected conductor's fusing current rating. The selected conductor will be applied to both equipment applications. Minimum 4/0 AWG stranded aluminum shall be used to connect voltage sensing equipment and surge arresters.

Neutral conductor for underground feeders from the substation will be sized for 1/3 of the phase conductor current carrying capability, or at a minimum 4/0 AWG stranded copper, and be solidly connected to the station ground grid.

Neutral conductor connections to the substation X0 transformer bushing from the substation ground grid will at a minimum, be sized to match the X0 bushing

continuous current rating or be equivalent to the phase conductor continuous current rating. The neutral conductor connections to the substation ground grid will be at a minimum of two places and be solidly bonded with feeder circuit neutrals at the station ground grid. Neutral conductors will be clearly marked above grade to be easily distinguished from bonding / ground conductors.

PREPA Standard for substation aerial conductor types shall include:

- 1/0 ACSR 6/1 “Raven” *
- 3/0 ACSR 6/1 “Pigeon” *
- 556.5KCM ACSR 24/7 “Parakeet” *
- 1192.5KCM ACSR 36/1 **

* Existing PREPA conductor standard

** Existing PREPA special conductor standard (special manufacture)

4.4 Power Cable

PREPA substation standard for insulated power cables shall include:

- 15 kV class, 175 mils insulation, 750KCM copper, TRXLPE, LLDPE jacket w/copper tape shield.
- 46 kV class, 445 mils insulation, 800KCM copper, TRXLPE, LLDPE encapsulating jacket 100mils minimum thickness, longitudinally water blocked w/concentric neutral.
- 46 kV class, 445 mils insulation, 2000KCM copper, TRXLPE, LLDPE encapsulating jacket 140mils minimum thickness, longitudinally water blocked w/copper concentric neutral.
- 123 kV class, 700 mils insulation, 2750 KCM copper, Super Clean XLPE, LMDPE encapsulating jacket 150 mils minimum thickness, w/copper concentric neutral.

4.5 Cable Terminations (Potheads)

The cable termination shall be pre-molded polymeric, silicon rubber material. Provide electric stress control for the cable insulation shield ends and complete external leakage insulation between the cable conductors and ground. Seal the cable ends to prevent entrance of external contamination and shall not require scheduled maintenance more frequently than once per year.

The cable termination stress relief cones shall be slip-on, pre-molded stress cones; design shall be of the type that shall permit fault location equipment to be connected with relative ease.

For GIS applications, the cable terminations will be SF6-type and designed to provide electrical isolation between the cable metallic sheath and the SF6 enclosure.

Terminations shall be built in accordance with IEEE Standard 48 – latest edition.

PREPA substations standard for power cable terminators shall include:

- 15 kV Class, 110 kV BIL silicone rubber, skirted, cold-shrink type and fit 750KCM copper, TRXLPE cable.
- 25 kV Class, 150 kV BIL silicone rubber, skirted, cold-shrink type and fit 750KCM copper, TRXLPE cable.
- 46 kV Class, 250 kV BIL silicone rubber, skirted, cold-shrink type and fit 800KCM copper, TRXLPE or 2000KCM copper, TRXLPE cables.
- 121 kV Class, 550 kV BIL Pre-Molded Polymeric Silicon Rubber Slip-on type and fit 2750 KCM copper, Super Clean XLPE cable.

4.6 Electrical Connectors

Wire conductors shall utilize compression (preferred) NEMA connections to equipment-rated for continuous current transfer equal to conductor rating.

Tubular bus systems connections shall be compression type using approved power connectors sized and manufactured for the purpose of its specific application and use.

Transitions to dissimilar metal connections (aluminum-bronze) will occur at flat-to-flat terminals only and must use a tin or silver plated (dipped) terminal surface on one of the two connected terminals. Spray-coated terminal surfaces are not accepted.

Equipment terminals will be NEMA pad 2x3 inch for up to 600A, 3x3 inch for above 600A to 1200A including arrester connections, and 4x4 inch for above 1200A to 2000A and 3000A equipment. The use of eyebolt or “U” bolt connectors is not permitted.

All HV connections (wire to connector housing, and flat-to-flat terminals) shall use approved contact sealant.

Bolted connections shall be sequence-torqued as recommended in NEMA standard CC1 and be following manufacturer’s instruction.

For installations requiring multiple conductors per phase, helical rod spacers shall be utilized to maintain conductor separation and provide added rigidity to the tap assembly. Width of cable spacer shall be coordinated with the centerline spacing between conductors on the terminal end(s) of the tap assembly.

4.7 Insulators

The load on the insulator (cantilever, tension, compression, torsion) shall not exceed the respective insulator strength published in ANSI C29.9, Tables 1 or 2, and shall conform to the latest NEMA Power Switching Equipment Standard. All insulators for the rigid bus system and disconnect switches shall be station post, high or extra-high strength (230 kV & 115 kV) and standard strength (38 kV & 13.2 kV), ANSI 70 gray in color. Standard strength, High strength or Extra-high strength insulators have been specified according to project criteria resulting from three phase symmetrical bus design fault current. Station post insulators have been specified for jumper standoff support where necessary. The determination of the maximum cantilever strength of the insulator will be performed by the project detail design engineering firm in accordance with ANSI/IEEE Standard 605, Guide for Design of Substation Rigid Bus Structures. The determination of the maximum allowable bus span due to insulator strength will be checked and determined for the insulator chosen and the external forces applied. Station post insulators are to be radio interference free, solid-core, and include semi-conducting glaze. Station post insulators will utilize standard dimensional height and bolt-circle size per voltage class for uniformity with structure mounting and conductor connections.

Apparatus Insulators (230 kV):

Nominal Voltage:	230 kV (242 kV Class)
Type:	Station Post
Insulator Composition:	Porcelain / Composite Polymer
BIL:	900 kV
Color:	ANSI-70
Cantilever Strength:	1,450lbs (high-strength); 2,450 lbs. (extra-high strength)
NEMA TR No.	TR 308; None
Contamination Level:	Heavy Coastal

Apparatus Insulators (115 kV):

Nominal Voltage:	115 kV (123 kV Class)
Type:	Station Post
Insulator Composition:	Porcelain / Composite Polymer
BIL:	550 kV
Color:	ANSI-70
Cantilever Strength:	2,600lbs (high-strength); 4,500 lbs. (extra-high strength)
NEMA TR No.	TR 287; None
Contamination Level:	Heavy Coastal

Apparatus Insulators (46 kV):

Nominal Voltage:	38 kV (46kV Class)
Type:	Station Post
Insulator Composition:	Porcelain / Composite Polymer
BIL:	250 kV
Color:	ANSI-70
Cantilever Strength:	4,000lbs (high-strength)
NEMA TR No.	TR 267
Contamination Level:	Medium Coastal

Apparatus Insulators (15 kV):

Nominal Voltage:	13.2 kV (15kV Class)
Type:	Station Post
Insulator Composition:	Porcelain / Composite Polymer
BIL:	110 kV
Color:	ANSI-70
Cantilever Strength:	2000 lbs. min (standard strength), 4,000 lbs. (high strength)
NEMA TR No.	TR-205 and TR-225
Contamination Level:	Medium Coastal

5.0 MAJOR EQUIPMENT

5.1 Owner Standard References

PREPA Procurement Specifications – Refer to PREPA specifications for detailed equipment requirements.

5.2 All equipment ratings listed in the following sections shall be verified with a system study during the design phase of a project.

5.3 230/115 kV Auto-Transformer

High Voltage:	230 kV Grd-Wye
Low Voltage:	115 kV Grd-Wye
Impedance:	6% to 8% at Base MVA
MVA	180/240/300MVA (300MVA at 55°C/337MVA at 65°C)
MVA	270/360/450MVA (450MVA at 55°C/504MVA at 65°C)
MVA	292/389/486MVA (486MVA at 55 ^{O}C/544MVA at 65°C)

5.4 115/38 kV Power Transformer

High Voltage:	115 kV Delta
Low Voltage:	38 kV Grd-Wye
Impedance	±8% at Base MVA
MVA	60/80/100MVA (100MVA at 55°C/112MVA at 65°C)
MVA	90/120/150MVA (150MVA at 55°C/168MVA at 65°C)

5.5 38/13.2 kV Auto-Transformer

High Voltage:	38 kV Grd-Wye
Low Voltage:	13.2 kV Grd-Wye
Impedance:	6% to 8% at Base MVA
MVA	12/16/20MVA (20MVA at 55°C/22.4MVA at 65°C)
MVA	18/24/30MVA (30MVA at 55°C/33.6MVA at 65°C)

5.6 115/13.2 kV Power Transformer

High Voltage:	115 kV Delta
Low Voltage:	13.2 kV Grd-Wye
Impedance:	8% at Base MVA
MVA	12/16/20MVA (20MVA at 55°C/22.4MVA at 65°C)
MVA	18/24/30MVA (30MVA at 55°C/33.6MVA at 65°C)
MVA	24/32/40MVA (40MVA at 55°C/44.8MVA at 65°C)

5.7 230 kV Circuit Breaker – General Purpose

Breaker Type:	Dead Tank
Nominal Voltage:	230 kV
Max. Voltage (Class):	245 kV
Basic Impulse Level:	900 kV
Bushing Contamination Level:	Heavy Coastal
Rated Voltage Factor:	1.0
Continuous Current:	2000A / 3000A
Class:	C0 – General Purpose
Insulation Type:	SF6
Symmetrical Interrupting:	40kA / 63kA
Control Voltage:	125VDC
AC Control Power Voltage:	120/208V or 120/240V, Single Phase

5.8 230 kV Circuit Breaker – Definite Purpose

Breaker Type:	Dead Tank
Nominal Voltage:	230 kV
Max. Voltage (Class):	245 kV
Basic Impulse Level:	900 kV
Bushing Contamination Level:	Heavy Coastal
Rated Voltage Factor:	1.0
Continuous Current:	1200A / 2000A
Class:	C2 – Definite Purpose, Capacitance Switching
Mechanism Operation:	Zero Crossing / Independent Pole Operation (IPO)
Insulation Type:	SF6
Symmetrical Interrupting:	40kA / 63kA
Control Voltage:	125VDC
AC Control Power Voltage:	120/208V or 120/240V, Single Phase

5.9 115 kV Circuit Breaker – General Purpose

Breaker Type:	Dead Tank
Nominal Voltage:	115 kV
Max. Voltage (Class):	123 kV
Basic Impulse Level:	550 kV
Bushing Contamination Level:	Heavy Coastal
Rated Voltage Factor:	1.0
Continuous Current:	2000A / 3000A
Class:	C0 – General Purpose
Insulation Type:	SF6
Symmetrical Interrupting:	40kA / 63kA
Control Voltage:	125VDC
AC Control Power Voltage:	120/208V or 120/240V, Single Phase

5.10 115 kV Circuit Breaker – Definite Purpose

Breaker Type:	Dead Tank
Nominal Voltage:	115 kV
Max. Voltage (Class):	123 kV
Basic Impulse Level:	550 kV
Bushing Contamination Level:	Heavy Coastal
Rated Voltage Factor:	1.0
Continuous Current:	1200A / 2000A
Class:	C2 – Definite Purpose, Capacitance Switching
Mechanism Operation:	Zero Crossing / Independent Pole Operation (IPO)
Insulation Type:	SF6
Symmetrical Interrupting:	40kA / 63kA
Control Voltage:	125VDC
AC Control Power Voltage:	120/208V or 120/240V, Single Phase

5.11 38 kV Circuit Breaker – General Purpose

Breaker Type:	Dead Tank
Nominal Voltage:	38 kV
Max. Voltage (Class):	46 kV
Basic Impulse Level:	250 kV
Bushing Contamination Level:	Heavy Coastal
Rated Voltage Factor:	1.0
Continuous Current:	1200A / 2000A / 3000A
Class:	C0 - General Purpose
Insulation Type:	Vacuum (SF6 will be considered but is not preferred)
Symmetrical Interrupting:	40kA
Control Voltage:	125VDC
AC Control Power Voltage:	120/240V, Single Phase

5.12 38 kV Circuit Breaker – Definite Purpose

Breaker Type:	Dead Tank
Nominal Voltage:	38 kV
Max. Voltage (Class):	46 kV
Basic Impulse Level:	250 kV
Bushing Contamination Level:	Heavy Coastal
Rated Voltage Factor:	1.0
Continuous Current:	1200A
Class:	C2 Definite Purpose, Capacitance Switching
Mechanism Operation:	Zero Crossing
Insulation Type:	Vacuum (SF6 will be considered but is not preferred)
Symmetrical Interrupting:	40kA
Control Voltage:	48/125VDC
AC Control Power Voltage:	120/240V, Single Phase

5.13 13.2 kV Circuit Breaker – General Purpose

Breaker Type:	Dead Tank
Nominal Voltage:	13.2 kV
Max. Voltage (Class):	15 kV
Basic Impulse Level:	110 kV
Bushing Contamination Level:	Heavy Coastal
Rated Voltage Factor:	1.0
Continuous Current:	1200A / 2000A
Class:	C0 – General Purpose
Insulation Type:	Vacuum
Symmetrical Interrupting:	16kA / 25kA
Control Voltage:	48/125VDC
AC Control Power Voltage:	120/240V, Single Phase

5.14 230 kV Switch (Outdoor)

Type:	Group Operated Vertical Break
Voltage Class:	230 kV
BIL:	900 kV
Bushing Contamination Level:	Heavy Coastal
Cont. Current:	2000A / 3000A
kA Short-Time:	38kA / 63kA
kA Mom.:	61kA / 100kA
Operator Type:	Manual Swing Handle/Worm Gear/ Motor Operated

5.15 115 kV Switch (Outdoor)

Type:	Group Operated Vertical Break
Voltage Class:	115 kV
BIL:	550 kV
Bushing Contamination Level:	Heavy Coastal
Cont. Current:	1200A / 2000A / 3000A
kA Short-Time:	38kA / 63kA
kA Mom.:	61kA / 100kA
Operator Type:	Manual Swing Handle/Worm Gear/ Motor Operated

5.16 38 kV Switch (Outdoor)

Type:	Group Operated Vertical Break
Voltage Class:	48.3 kV
BIL:	250 kV
Bushing Contamination Level:	Heavy Coastal
Cont. Current:	1200A / 2000A / 3000A
kA Short-Time:	38kA
kA Mom.:	99kA
Operator Type:	Manual Swing Handle

5.17 13.2 kV Switch (Outdoor)

Type:	Group Operated Vertical Break
Voltage Class:	15 kV
BIL:	110 kV
Bushing Contamination Level:	Heavy Coastal
Cont. Current:	1200A / 2000A
kA Short-Time:	38kA
kA Mom.:	99kA
Operator Type:	Manual Swing Handle

5.18 13.2 kV Switch (Outdoor)

Type:	Manual Hook stick
Voltage Class:	15 kV
BIL:	110 kV
Cont. Current:	1200A / 2000A
kA Short-Time:	38kA
kA Mom.:	99kA

5.19 13.2 kV Switch (Metal-Enclosed GIS Switchgear)

Type:	Vertical Break
Voltage Class:	15 kV
BIL:	110 kV
Bushing Contamination Level:	Heavy Coastal
Cont. Current:	1200A / 2000A
kA Short-Time:	25kA, 38kA
kA Mom.:	40kA, 61kA
Operator Type:	125VDC Motor
AC Control Power Voltage:	120/240V, Single Phase

5.20 230 kV Coupling Capacitor Voltage Transformers

Primary Voltage:	230/132 kV
Secondary Voltage:	115/66.4V
BIL:	1050 kV
Ratio:	2000:1
Thermal Rating:	3000VA L-G @ 30°C
Bushings:	One
Accuracy:	0.3 @ Z, 0.6 @ ZZ

5.21 115 kV Coupling Capacitor Voltage Transformers

Primary Voltage:	115/66 kV
Secondary Voltage:	115/66.4V
BIL:	550 kV
Ratio:	1000:1
Thermal Rating:	3000VA L-G @ 30°C
Bushings:	One
Accuracy:	0.3 @ Z, 0.6 @ ZZ

5.22 38 kV Voltage Transformers

Primary Voltage:	38/22 kV
Secondary Voltage:	115/66.4V
BIL:	250 kV
Ratio:	330/190:1 (L-G) / 550/330:1 (L-L)
Thermal Rating:	4000/3000VA L-G @ 30°C
Bushings:	Two
Accuracy:	0.3 @ Z, 0.6 @ ZZ

5.23 13.2 kV Voltage Transformers

Primary Voltage:	13.2/7.62 kV
Secondary Voltage:	120V/69V
BIL:	110 kV
Ratio:	63.5:1 (L-G) / 110:1 (L-L)
Thermal Rating:	4000/3000VA L-G @ 30°C
Bushings:	Two
Accuracy:	0.3 @ Z, 0.6 @ ZZ

5.24 13.2 kV GIS Switchgear

Voltage Class:	15 kV
BIL:	110 kV
Bus Configuration:	Single Bus or Single Bus with Transfer (as per PREPA requirement for a project)
Cont. Current:	1200A / 2000A
kA Mom.:	31.5kA Symmetrical
Enclosure:	Steel Enclosure w/ANSI-70 Gray 4 mil Thickness
Thermosetting	Polyester Powder Coating Textured Finish
Bushings:	15 kV, 110 kV BIL, 1200A, 4-hole NEMA
Operator Type:	VDC Motor
AC Control Power Voltage:	120/240V, Single Phase

5.25 13.2 kV-208Y/120V Three Phase Pad Mount Station Service Transformer

Type:	Three Phase
High Voltage:	13.2 kV Delta
Low Voltage:	208Y/120V
HV BIL: 110	kV
LV BIL:	30 kV
KVA:	150 (maximum)
Impedance:	4%
Primary Fusing:	Partial Range CLF XXXA; Bayonet XXA (by design)

5.26 13.2 kV-120/240V Single Phase Pad Mount Station Service Transformer

Type:	Single Phase
High Voltage:	7.62kV (L-G)
Low Voltage:	120/240V
HV BIL:	110kV
LV BIL:	30kV
kVA:	75 (maximum)
Impedance:	4%
Primary Fusing:	Partial Range CLF XXXA; Bayonet XXA (by design)

5.27 Surge Arresters

Surge arresters will be designed and utilized to provide protection of the substation equipment, and the arrester ratings validated by an insulation coordination review document showing insulation impulse withstand rating coordination for selected arresters. Arrester protection margins for applicable line terminal equipment, power transformers, and medium voltage power cable, along with surge transfer coordination for high and low side transformer arresters will be provided for review. Specific surge arrester ratings for each arrester voltage class specified will include:

L-L Voltage	230kV	115kV Delta	115kV Grd. Y	38kV Delta	38kV Grd. Y	13.2kV
Duty Cycle Rating (kV) *	170kV	120kV	96kV	48kV	36kV	12kV
Max Contin. Operating Voltage – MCOV (kV) *	140kV	98kV	76kV	39kV	29kV	10.2kV
Minimum Crest Current (kA) – Pressure Relief Capability	65	65	65	65	65	65
Minimum Energy Capability – kJ/kV of MCOV	9.0	9.0	9.0	9.0	9.0	9.0

* Specific surge arrester duty cycle and MCOV ratings to be determined by equipment and system coordination study on a per-station basis.

System Voltage	Arrester Class:
230kV:	Station
115kV:	Station
38kV:	Station
13.2kV:	Station

Surge Arrester Protection Margin Criteria	Required with Arrester Proposal
Chopped Wave	(0.5 u-sec 10kA Max IR-kV Crest)
Switching Surge Max IR-kV Crest	(kV)
8/20 us Max Discharge Voltage kV Crest	(kV)

NOTES:

1. All surge arresters shall be metal oxide varistors (MOV), gapless type.
2. Each surge arrester shall use a porcelain or polymer housing and be ANSI 70 gray in color. Selected polymer arrester housings will conform with voltage class phase to ground minimum criteria listed in the ANSI C37.32.

6.0 AC STATION SERVICE

6.1 Owner Standard Reference

Manual de Patrones de Distribucion Soterrada
(URD-19 to URD-23 & URD-39)

6.2 Design Criteria

The AC station service system shall be sized according to an AC load study to accommodate all known and new future substation. AC Station service shall be established from two sources. Station service voltage shall be 120/240V, 1 phase, 3 wire or 208Y/120V, 3 phase, 4 wire depending on station size and load kVA demand.

38 kV and 13.2 kV GIS stations, the Primary and Secondary station service shall originate from separate main buses. Medium voltage solid dielectric power cable shall feed the two-pad mounted transformers located outdoors within the substation yard near the control building.

38 kV and 13.2 kV AIS stations, the Primary and Secondary station service shall originate from separate main buses utilizing pad-mount transformers and a fused primary disconnect switch. For stations with only one main bus, the second station service source shall be derived from a local distribution circuit and the station may have a backup generator. Other optional configurations for the station AC service are as described in PREPA's AC Station Service Standard.

230 kV and 115 kV switching stations, the Primary and Secondary station service sources shall originate from Station Service Voltage Transformers connected to the main (115kV or 230kV) buses. Stations with only one main bus, the second station service source options shall be derived from a local distribution circuit and the station may have a backup generator.

A service entrance rated automatic transfer switch (ATS) shall be installed and fed from the two-independent station service sources. The ATS shall include a metering accessory to measure, register, and record the station service current usage when required. The ATS output will provide continuous AC power to 240V, 1 phase, 3 wire AC main distribution panelboard (MDP) or to the 208V, 3 phase, 4 wire AC main distribution panelboard (MDP) depending on the station voltage class/size. On a loss of this supply, the ATS will automatically switch to the alternate supply. The ATS will be provided with the capability to monitor voltage and frequency on both supplies and automatically switch back to the preferred supply upon restoration.

38 kV & 13.2 kV Stations: The 1 phase, 240VAC main distribution panelboard (MDP) will feed two single phase, 120/240VAC 14k AIC fully rated panelboards (AC1 & AC2) located in the control building or GIS/switchgear rooms. The MDP will have a main breaker and bolt on branch circuit breakers. The remaining panelboards will have main lugs only and bolt on branch circuit breakers.

230 kV & 115 kV Stations: The 3 phase, 208VAC main distribution panelboard (MDP) will feed two 3 phase, 208Y/120VAC 14k AIC fully rated panelboards (AC1 & AC2) located in the control building. The MDP will have a main breaker and bolt on branch circuit breakers. The remaining panelboards will have main lugs only and bolt on branch circuit breakers.

The panelboards will supply power to the control house equipment, yard equipment, lighting, HVAC, fire alarm systems, etc.

7.0 DC STATION SERVICE

7.1 Owner Standard References

PREPA Procurement Specifications

7.2 Design Criteria

The DC station service system shall be sized to accommodate all new and known future substation DC power requirements. PREPA shall determine, based upon importance of the facility to system resilience and stability, if a two-battery configuration for the station DC system is required; final determination shall be by Design. Each battery shall be equipped with a dedicated battery charger sized to service the full DC continuous and charging load. Less-critical stations may utilize a single station battery.

The DC service and protection for System A and System B shall be fully redundant and originate from a 48VDC or 125VDC battery fed through a DC Fused Safety disconnect switch. Where two batteries are utilized, a Manual Transfer Switch shall be provided between the disconnect switches and a Main Distribution Panel (MDP). The MDP shall provide service to System A and System B dedicated loads in a configuration that mitigates the loss of system protection from a single point failure event.
The station battery bank shall be sized to have enough stored energy capacity for a 12-hour autonomy (duty cycle) at the manufacturer's recommended minimum DC system operating voltage of 1.75 volts per cell (maximum discharge voltage).
Battery bank design shall be by PREPA Design Standards.

The battery sizing criteria will include:

- Aging Factor of 1.25
- Temperature Correction Factor of 1.0
- Design Margin of 1.15
- Depth of Discharge – 1.75 Volts Per Cell
- 12 Hour Autonomy (Duty Cycle)
- 8 Hour Standard Battery Recharge Period
- Single-Cell or Multi-Cells per Jar (2 or 3 Cells per Jar)
- 2 Step Battery Rack, Seismic per Table 2.3
- Accepted Battery Cell Types:
  - Plante
  - Lead-Calcium
  - Lead-Selenium
- Battery Rack Spill Containment – Yes
- Minimum Length of Life – 20 Years
- Battery room ambient air temperature

The Battery Charger shall be connected to the systems via the MDP. Both battery systems shall be connected together via two transfer switches. The transfer switches will be connected to the other system via the normal open (N.O.) position and be operated independently.

Battery banks shall be installed in a dedicated room equipped with forced air ventilation. Battery room ambient air temperature shall consider the battery vendor temperature requirements and shall be considered when sizing the battery. The main disconnect switch shall be located outside the room on an adjacent wall. The cable connection between the Main Disconnect Switch and battery bank shall be installed in two dedicated PVC conduits. Ferrous conduits shall not be used for the cable connection.

Battery spill kits will be located near the battery room. An emergency eye-wash station shall be located inside the room.

Hydrogen detection systems will be installed with local and remote indication. (See Hydrogen Detection System Section)

7.2.1 VDC Battery System

Type:	PLANTE, Lead Calcium, Lead Selenium
Cell Type:	Lead Acid
Cells / Jar:	One (preferred), Two or Three (When Approved)
Rack Style:	Two-Step, Long, Seismic per Table 2.3, Acid Resistant
Spill Containment:	Yes
Spill Kit:	Yes

7.2.2 Battery Charger

Model:	As per Design
Input Voltage:	240V 1-Phase or 208V 3-Phase
Output Voltage:	125 VDC or 48 VDC (as required)
Output Current:	As per Design for 8 Hour Recharge
Mounting Style:	Wall / Floor

7.2.3 Panelboards DC1 & DC2

Model:	As per design
Voltage:	125 VDC or 48 VDC (as required)

7.2.4 MDP Panelboards

Model:	As per Design
Voltage:	125 VDC or 48 VDC (as required)
Type:	Main Breaker

7.2.5 Safety Switch

Model:	As per Design
Voltage:	125 VDC or 48 VDC (as required)
Type:	Fused

7.2.6 Transfer Switch

Model:	As per Design
Voltage:	125 VDC or 48 VDC (as required)
Type:	Manual

7.3 Exhaust Fan

7.3.1 Explosion proof, direct drive sidewall exhaust fans shall be provided (1) per battery system by the control building vendor. Each exhaust fan shall be complete with a timer, rated for 120 volts AC, have a minimum 8-inch diameter blade, capable of 500 CFM of air movement and be enabled with cyclic operation.

7.3.2 Installation of the exhaust shall include hurricane-rated rain hoods, replaceable dust filters, and an insect screen at 20 meshes per square inch. Exhaust fan wall cutouts shall be constructed with weather stripping and moulding to conceal sharp edges.

7.3.3 Exhaust fans are to be installed within five feet of the battery banks and located a maximum of 2 feet below the ceiling in an area that is accessible during normal operation of the substation.

7.3.4 Mechanical characteristics of the exhaust fans shall at a minimum, meet the following:

- Propeller construction shall be fabricated steel, fabricated aluminum or cast aluminum blades and hubs.
- Standard square key and set screw or tapered bushing to lock the propeller to exhaust fan motor shaft.
- Propellers to be statically and dynamically balanced per AMCA Standard 204-5.
- Motors are to be permanently lubricated, heavy duty type. Motors will be matched and procured to meet the required fan RPM and operating voltage.
- Assemblies and enclosure shall be galvanized or painted steel.
- Exhaust fans shall be designed to and bear the AMCA Certified Ratings Seals for Sound and Air Performance.

7.3.5 All exhaust fan design and installation shall conform to IEEE 979 Guide for Substation Fire Protection.

7.4 Solar Panels for Battery Banks

Model: As per Design
Voltage: As per Design
Type: As per Design

7.4.1 Photovoltaic (PV) System for Battery Banks

In the scenario of having a PV system, the design of the DC station service shall be compatible with the storage requirements of that PV system.

The 2017 National Electrical Code (NEC) shall be used as a design and construction guide. Article 690.12 of the NEC will not be applicable.

The station battery chargers shall be connected to the critical load panel.

The inverter/charger shall be Schneider Conext XW models. Another equivalent model can be used, but it shall be approved by PREPA.

The charge controller shall be Schneider MPPT models. Another equivalent model can be used, but it shall be approved by PREPA.

8.0 STANDBY GENERATOR

8.1 General

8.1.1 The application of a standby generator at a substation shall be based upon the criteria set forth in this Design Criteria. The arrangement of the AC station service (Section 6.0) shall be upgraded to interface with the standby generator. Critical loads to receive service from the standby generator system shall be provided by PREPA. Calculations for the generator rating selection shall be approved by PREPA.

8.1.2 The generator shall be a Not Separately Derived System (NSDS) according to the latest edition of article 250.30 of the National Electric Code (NEC).

8.1.3 The electrical system shall be designed and constructed, from the generator to the control room as established in the latest edition of the National Electric Code (NEC).

8.1.4 The standby generator shall be diesel fueled. The generator shall have the technology (according to the manufacturer) to operate with biodiesel of B20 or higher.

8.1.5 The standby generator shall comply with the latest editions of IEEE 446 and 40 CFR 112.

8.1.6 At substation yards where no generator is initially provided for the service station, a generator pad with future conduits shall be provided for telecommunications use.

8.2 Photovoltaic Criteria

8.2.1 In the scenario of having a PV system, the emergency generator, in addition to supplying critical loads (AC and DC), shall have the ability to charge (full capacity) the battery bank through the inverter when its depth of discharge (DOD) becomes 75% or more.

8.2.2 In the case of no PV system, the emergency generator must supply the critical loads after the power of the grid is lost. The generator will charge the battery banks of the substation when its depth of discharge (DOD) becomes 50% or more.

9.0 FIRE ALARM SYSTEM

9.1 Owner Standard References

Reglamento Complementario al Código Eléctrico Nacional (NEC 2017)

International Building Code 2018

IEEE 979 – Guide for Substation Fire Protection

9.2 Design Criteria

Smoke detectors and rate-of-rise heat detectors shall be provided in the switchgear and control buildings. Manual fire extinguishers shall be provided adjacent to each of the internal and external doors.

Fire alarm system shall be complete with a fire alarm panel, interior and exterior strobe lights, sirens, and manual pull stations at exterior doors. The fire alarm shall be wired to the substation annunciator and alarm sent to Energy Management System (EMS) indicating smoke/heat detection. Also, detector activation shall shut down the air-conditioning/ventilating units and close any motorized louvers automatically.

9.3 Fire Protection Reference Guide for Substations

The predominant dielectric insulating medium for electric equipment is mineral oil, and mineral oil constitutes one of the primary fire hazards for a substation. IEEE 979 *Guide for Substation Fire Protection* addresses hazards and protection measures based on mineral oil fires. It is the intent of this referenced guide to provide fire protection guidance for substations designs based on industry standards and good practices. It incorporates techniques and methods learned from substation fires, substation fire protection research and testing, advancements in fire protection engineering practices, and changes in fire protection due to risk and environmental concerns.

IEEE 979 should be used as a guide and is not intended to be the primary standard for the minimum levels of fire protection required for new and existing substations. The minimum required level of substation fire safety and protection level is based on the minimum requirements of governing authorities and on the level of risk the asset owner (PREPA) is willing to accept. The guide provides design options and strategies for the mitigation of substation fire hazards once the minimum required level of substation fire safety and protection is determined.

IEEE 979 shall not take precedence over local building, fire, safety and electrical codes, and instead shall be applied in conjunction with governing codes and standards for the purpose of providing specialized substation fire protection guidance for asset protection and customer service reliability.

Areas of importance covered in IEEE 979 for substation fire protection design include:

- Energized Equipment Safety Procedures
- Fire Emergency Plan, Incident Management, and Recovery
- Water Access Near Substation Facilities
- Fire Suppression Equipment / Systems
- Fire Alarm & Detection Systems
- Vegetation Management
- Spatial Separation of Equipment
- Combustible Oil Based Hazards
- Identification of Critical Loss Assets
- Indoor Substation Hazards
- Site Grading / Ground Surface Material
- Emergency Response Capability
- The Use of Less-Flammable Dielectric Equipment Fluids
- Personnel Life Safety Measures
- Guidance for Conduit & Cable Trench Systems
- Guidance for Cable Tray Systems
- Guidance for Control Building Penetrations
- HVAC System Controls
- Smoke & Heat Management for Buildings
- Application of Fire Barriers
- Oil Spill Containment & Suppression Systems (Flame-Front Containment)
- Cost Benefit – Risk Assessment Fire Prevention Method Evaluation

The analysis and decisions to address fire protection for PREPA substations will likely require the use of a team-approach of specialists. These specialists will collaborate to determine specific criteria based on their expertise to interpret related codes, standards, practices, critical asset to cost analysis, along with establishing minimum life-safety criteria to formulate fire protection practices and solutions for substation applications in the PREPA system.

It is expected that substation fire protection criteria will be specifically reviewed on a site-by-site basis or addressed by PREPA on a more encompassing and specifically focused design document for electrical power substations.

9.4 Materials

Fire Alarm Control Panel, Addressable
Simplex 4007-9101

Photoelectric Smoke Detector, Addressable
Simplex 4098-9714

Heat Sensor, Addressable
Simplex 4098-9733

Multi-Sensor, Photoelectric and Heat
Simplex 4098-9754

Single Stage Pull Station
Simplex 4099-9001

Audio/ Visual Alarm, Non-Addressable
Simplex 4903-9358

Visual Alarm, Non-Addressable
Simplex 4906-9101

10.0 SUBSTATION SECURITY

10.1 Owner Standard References

Reglamento Complementario al Código Eléctrico Nacional (NEC 2017)

International Building Code 2018

10.2 Design Criteria

All substations shall, at a minimum, have a 7ft. tall, 6-gauge, chain link security fence or concrete flood wall will be installed around the substation, as applicable. The fence will have a 1ft. tall barbed wire extension for a total height of 8ft.

The new switchgear building entry doors will be outfitted with door safety switches that will be alarmed.

Additional security measures may be required on a site-by-site basis.

All other substation security will be done as determined by PREPA on a station-by-station basis including but not limited to the following:

- Closed Circuit Security Cameras
- Motion Detectors
- Card Entry Systems
- Audible Alarms
- Etc.

11.0 SUBSTATION OUTDOOR LIGHTING

11.1 Owner Standard References

- PREPA Design Standard

11.2 Design Criteria

Yard lighting shall consist of roadway lighting and work lighting. The roadway lighting will illuminate vehicle drive and access corridors and provide enough lighting for personnel visual inspection of substation equipment and components and promote safe travel of personnel within and around the substation.

The work lighting shall be designed to provide enough illumination levels around the substation equipment. The entire yard lighting system shall meet the recommended Illumination Engineer Society (IES) minimum average foot candle level of 2-foot candles with a maximum to minimum illumination uniformity ratio of 3/1. All lighting fixtures shall be LED. Lighting fixtures shall be mounted on a combination of light/security poles and various steel structures throughout the substation. Roadway and work lighting shall be divided up into multiple circuits which are controlled separately. Typical control for the roadway & work lighting shall be on/ off with no automatic photoelectric control, located in the control building.

Building wall mounting type fixture will be utilized for the exterior of the control building. Light fixture placements must be available for maintenance and be accessible with equipment / bus in service by qualified personnel.

11.3 Materials

- Interior 2x4 Fixture, LED, Surface Mount
- Building Entry Light, Wallpack, LED, with Full Visor
- Floodlight, LED

12.0 DIRECT STROKE PROTECTION

12.1 Owner Standard References

- PREPA Design Standard

12.2 Design Criteria

A combination of lightning masts located throughout the substation and 5/8” x 15-inch lightning air terminals on top of the control / switchgear buildings will be utilized for the direct stroke protection. The analysis of the lightning protection for the substation yard will employ IEEE-998 “Rolling Sphere method” for the 230 kV and 115 kV voltage level and “Fixed Angle method” for the voltages below 115 kV. The lightning protection of the control / switchgear buildings will be per NFPA 780 standard.

13.0 GROUNDING

13.1 Owner Standard References

- *Manual para el Diseño y Construcción de Mallas conectadas a Tierra para Subestaciones y Equipos.*
- *Manual de Pruebas de Sistemas Conectados a Tierra*
- PREPA Design Standard

13.2 Design Criteria

The substation yard ground grid, fence, equipment, and switchgear building grounding will be designed per PREPA Standard requirements or RUS 1724E-300 (latest version). The more conservative design criteria will be used.

The fault current that will be used for standard substation grounding system design will be based on the corresponding planning system study. A 15% design margin will be applied to this value to account for system growth.

13.3 Subgrade Grounding

The substation grounding system shall be designed in accordance with IEEE-Standard 80 (latest version). Tolerable step and touch potentials shall be calculated based on a 50 kg body weight. The ground system shall be designed based on the corresponding short circuit values for a minimum of:

Generation Center Substations:	12 Cycles Minimum
Transmission Center Substations (230kV & 115kV):	15 Cycles Minimum
38kV & 13.2kV Substations:	20 Cycles Minimum

A #4/0 AWG stranded copper conductor will be installed below finish yard grade. The #4/0 AWG copper conductor will be arranged throughout the yard in an overlapping rectangular grid pattern, extending 3 feet beyond the fence line (including gate swing radius), with 15 foot by 15 foot spacing as determined by design software. The grid spacing will be closer in the proximity of electrical equipment and will be connected at all conductor intersections.

Steel copperclad ground rods ¾” x 10’, with threaded couplings and will be installed as dictated by design software and client standards throughout the yard area connected to the #4/0 AWG grid, to enhance the grid system’s effectiveness, by penetrating stable & lower resistivity soil layers.

The sub-grade ground grid connectors will be an exothermic irreversible welding system type.

Group operated air switch mechanisms will have personnel equal-potential protection ground mats at each operating mechanism location for operator protection. This protection mat will be connected to the operating handle, and to the ground grid to maximize personnel protection from touch potentials. Connected pigtails (#4/0 AWG str. copper) extending from the subgrade grid to the base of equipment structures and stands will bond all above grade facilities.

The below grade grounding conductor will loop around yard structures. Parallel ground #4/0 AWG ground wire shall be run adjacent to all shielded control cables to protect the cable during station faults. The substation yard finish grade will consist of a 6-inch layer of gray coarse crushed granite (1,300 Ohm-meter minimum), which is considered for safe yard step and touch potentials. Station sites with potential standing water or loose soil material shall include the installation of a geo-tech fabric barrier (material) between earth and the stone layer.

13.4 Structure & Equipment Grounding

Ground grid pigtails will connect to the base of structure legs using irreversible exothermic welding or copper compression clamps as required at each leg for single and double leg structures, or at diagonally opposite legs for four leg structures and stands. Structures shall be purchased with 5x5 plates welded to the structural members 18” from grade for attachment of the ground grid tail.

Bronze mechanical connectors will also support jacketed #4/0 AWG copper conductor to be run along structures and stands for grounding of equipment casings, surge arresters, ground switches, and overhead shield wires.

Where aluminum structures are used, bolted connections will be used, and connections will be plated to accept copper conductors. Copper conductors shall be covered in solid dielectric insulation to avoid dissimilar metal corrosion from the contact of aluminum and copper.

All above grade equipment will be properly bonded to the station ground grid using a continuous conductor path.

13.5 Fence Grounding

The substation perimeter fence posts will be bonded using #2/0 AWG stranded copperweld pigtails from the station ground grid at regular intervals defined below, and where each overhead transmission phase conductor (when applicable) crosses the fence line with irreversible exothermic welding or copper compression connectors. Antitheft composite conductor shall be used for fence grounding. Fence corner and gate posts shall be bonded directly to a ground rod. Gate frames and top rails will be bonded with #2/0 AWG stranded copper, with the gate frame using a #2/0 AWG copper high strand 600V welding cable for maximum flexibility. Grounding of the chain-link fence, fence outrigger barb-wires, and bottom tension wire will be completed with a #2 AWG stranded bare copper antitheft composite conductor and copper compression parallel connectors. Grounding of the fence system will be every three (3) sections of continuous fence – or every 3rd post and at all end posts, corner posts, and gate posts.

13.6 Cable Trench Grounding (when applicable)

Two #4/0 AWG external ground conductors will be installed to run parallel (each side) of the cable trench's entire route. These grid conductors will serve to provide a degree of cable shielding from electrostatic interference.

13.7 Control Building Grounding

Four ¼" x 4" copper ground bar(s) will be installed through the building's concrete foundation connecting the station ground grid to all control building equipment & components. Each ground bar will be connected to the station grid using a copper exothermic connector to a #4/0 AWG - 19 strand ground conductor, which connects to the grid in two locations. A ¾" ground rod will be placed near the building's ground bar(s) and connected to the station grid. The concrete embedded portion of the ground bar will be coated with bitumastic to protect against accelerated corrosion of the copper in contact with the cement-based concrete.

An internal #4/0 AWG - 19 strand bare stranded copper ground conductor will be installed in four corners of the building and connect to the copper ground bars embedded in the foundation. These grounds will route to the ceiling. The room will have a #4/0 AWG - 19 strand conductor installed around the room perimeter on the wall near the ceiling. These perimeter ground loops will be connected to the ground conductor risers. The perimeter loops will be used for bonding and grounding all electrical equipment.

The cable trays shall have a #4/0 AWG - 19 strand copper conductor run in all parts of the tray systems. Cable tray systems will be bonded at 5-foot intervals and at each fitting or section. The cable tray systems will be bonded together and to the interior perimeter grounds and to the cable trench ground conductors.

The control building and framing shall be connected and bonded to the grid at two (2) locations on opposite corners. The framework for each building module will also be solidly bonded at all connected joints.

Each structural steel building column will be bonded to the perimeter or riser ground conductor.

Telecommunications grounding shall comply with Telecommunications Industry Association TIA-607 national standard, and ANSI-T1.333 Grounding and Bonding of Telecommunications Equipment.

13.8 Materials

#4/0 AWG, 19 strand bare copper conductor (Below Grade)

#4/0 AWG, 7 strand bare copper conductor (Above Grade)

#2/0 AWG, 7 strand bare copperweld conductor

¾" x 10' sectional copperweld ground rods

#2 AWG bare copperweld conductor

#2/0 AWG, hi-strand jacketed 600V copper conductor (flexible for swing-gates)

#3/0 AWG Antitheft composite conductor (133) Tinned Copper, (24) Galvanized Steel wires (for fence of susceptible areas)

14.0 RACEWAYS

14.1 Owner Standard References

- PREPA Procurement Specification

14.2 Design Criteria

14.2.1 Subgrade Conduit

Individual subgrade conduits varying in size from 2" to 8" I.P.S. will be used to convey the control cables and the power cables from the yard equipment to the cable trench (when used), control building, manholes and risers, whichever the case. Cable / conduit cross-sectional fill ratio shall not exceed NEC percent fill requirement and shall include a margin for future use. Conduits will be schedule 40 PVC conduit with cemented fittings per manufacturer's recommendation. Schedule 40 PVC conduits will be installed at 36 inches below finished grade and can be transitioned to facilitate necessary entrances into cable trenches and control house raceways, at select locations, as supported by the loading calculations. Conduit radii for PVC bends will be per NEC recommendations. All subgrade conduits will be placed in a 6-inch bed of sand for protection and covered with compacted backfill. Risers at equipment destinations will incorporate flexible sleeves, or liquid tight installed with an offset, to

permit conduit movement. Terminations to all junction boxes and equipment housings shall be completed using outdoor rain-tight fittings.

14.2.2 Above Grade Conduit (Outdoor)

Individual structure mounted galvanized rigid conduits varying in size from 1” to 3” I.P.S. will be used to convey the control cables from the structure mounted equipment to junction boxes or to the base of structures. Conduits shall not exceed NEC percent fill requirement. Galvanized rigid conduits will be employed where heightened exposure to physical damage exists, or to provide a specific control circuit additional shielding as may be required for reliable operation. Galvanized rigid conduit and fittings when used will be suitable for outdoor subgrade use. Galvanized rigid conduit will be a minimum of 1’-0” below finish grade. Galvanized rigid conduit can transition to PVC prior to below grade as required on the Conduit Schedule. The transition from galvanized rigid to PVC will in most instances occur at junction boxes. Galvanized rigid steel conduit shall be installed with threaded fittings per manufacturer’s recommendation. Galvanized rigid conduit and fittings when used will be suitable for outdoor use. Structure routed galvanized conduits will be installed with suitable manufactured conduit bodies with gasket covers to permit installation/removal of future conductors. Structure routed conduits shall be supported using one- or two-hole galvanized supports at intervals per the NEC. Conduit radii for all galvanized rigid and PVC bends will be per NEC recommendations. Terminations to all junction boxes and equipment housings shall be completed using outdoor rain-tight fittings.

14.2.3 Above Grade Conduit (Indoor)

The indoor conduit system will include both low voltage and distribution voltage conduit systems.

The low voltage system will include EMT and rigid galvanized steel conduit. Flexible metal conduit will be used if required. The minimum EMT size will be ¾”. All AC & DC panelboard power feeders will be routed in rigid galvanized steel conduits. Conduits shall not exceed NEC percent fill requirements.

14.2.4 Cable Tray System

Control and communication cable tray systems will be installed to route cables from the termination cabinets to the control equipment and between the control equipment and the switchgear (where used).

The tray system will have a 6” loading depth with 9” rung spacing and the width will be sized to accommodate the cable loading. Cable tray systems will be designed for cable loading not to exceed NEC fill requirements. The metal tray systems will be grounded as described in the grounding section of this document.

Three (3) independent cable raceways shall be used:

one (1) for fiber management
one (1) for copper cabling
one (1) for power feeds to and from AC / DC sources.

Telecommunications power circuits shall always be on a separate tray from communications circuits.

All tray systems will be installed to meet the required separation.

14.2.5 Cable Trench System

Pre-cast reinforced concrete (or equivalent) cable trench sections with solid covers will be installed as a main trunk line for yard conduit terminations to the substation control building pull boxes which will be connected to internal termination cabinets. Cable trench to cable cross-sectional fill ratio shall not exceed 40 percent and shall include a minimum 25 percent design margin for future use.

Trench sections will be butted together with alignment pins to stabilize the continuous run of multiple sections. Trench will be provided with bottom openings and/or side knockout penetrations to allow for the entrance of yard conduits. Trench base units will be installed on compacted well-draining material.

Trench sections subject to heavy traffic will be rated for HS20 (32,000 lbs.) single axle load rating with reinforced concrete lift-off cover. Covers will be provided with flush hook-style multi-point embedded attachments for mechanized and balanced removal. All covers shall result in non-teetering / rocking fit with base units after installation.

14.2.6 Substation Yard Protection System Separation

Substation yard control and AC / DC power supply cables will be grouped and routed in separate conduits from the cable trench to the yard equipment enclosure and junction boxes as practical according to the protection system functionality or power supply type.

Yard equipment control cables and AC / DC power supply cables may be routed within the same cable trench to the relay and control enclosure module.

14.2.7 Substation Yard Communication System Separation

Each communication (fiber) cable terminated at the substation overhead terminal structure from remote communication facilities or substations shall be routed in a separate and fully segregated conduit route to the substation control enclosure module's patch panel.

Communications cables routed from the control enclosure to the yard equipment may not be routed within the cable trench along with control and power cables. Communications cables will be grouped and routed in a separate conduit and hand-holes from the control enclosure to the yard equipment separated as practical according to communication system functionality. Two separate routes shall be provided per equipment for redundancy / resiliency.

14.2.8 Communications Fiber Cable Routing Infrastructure

Substations shall utilize two fiber optic cable routes, and will be configured as IN and OUT separated paths. The physical routes shall be arranged in such a manner as to provide independent paths for redundancy of communication systems.

Fiberoptic systems infrastructure shall be underground and be conveyed within a dedicated conduit per system.

Fiber optic systems shall be routed in a 2N+1 configuration, which provides for one conduit for cable, one conduit for growth, and one conduit as a spare.

Fiber optic cable with conduit(s) shall be provided at each piece of equipment within the substation yard. An alternative is to provide fiber optic cable with conduit(s) at specific yard enclosures assigned to serve the yard equipment.

Underground communications infrastructure will be constructed from the substation control enclosure to:

- Each transmission line terminal tower
- Each distribution circuit feeder pole structure
- Each underground feeder circuits
- Each corner of the substation yard for future growth, additions or changes to the substation's communication network.

The substation's communication network will include multiple hand-holes, and conduit riser pedestals to disperse the communication cable network routing to avoid congregating of cables at one single location.

14.2.9 Communication Entrance Facilities

Entrance facilities shall be underground within the substation.

Entrance facilities include fiber optic cable from three access schemes:

Underground: Underground cable shall enter a designated hand-hole inside the substation and then continue its path to the control enclosure.

- Optical Ground Wire (OPGW): OPGW cable shall be spliced at the transmission tower inside the substation to transition to an OSP rated cable. The splice is to be located at an enclosure mounted at the substation transmission-line terminal structure. OSP rated cable will be routed through a conduit riser located on the line terminal structure to a designated hand-hole, and then routed to the substation control enclosure.
- Distribution Pole Structure Cable: Communications cable routed to the distribution pole structure will be installed in a conduit riser from a designated hand-hole inside the substation. The communications cable will then be routed from the hand-hole to the substation control enclosure.

14.2.10 Fiber Optic Cable Terminations

- Cables shall be terminated in rack mounted patch panels. Patch panels are to be in a designated communications rack assembly.

14.2.11 Wireless Infrastructure

- Tower: A telecommunication tower shall be provided at the substation to provide substation communications, distribution automation, and FAN. The tower must comply with the latest version of ANSI / TIA-222 and the PRBC. A standalone tower assembly is preferred.
- Microwave: Each substation shall have microwave communication.
  - Licensed microwave radio is preferred for all critical substations, transmission centers, and large substations as defined by PREPA.
  - Unlicensed microwave radio can be used on non-critical facilities as defined by PREPA.
  - In facilities with fiber optic cable, the wireless service will be used a backup.
- Radio System
- Small Cell
- Distribution Automation

15.0 SUBSTATION CONTROL BUILDING

15.1 Owner Standard References

- PREPA Procurement Specification

15.2 General Criteria

15.2.1 The modular control building shall be suitable for housing switchboard panels of protective relays, control equipment, electronic components and electrical equipment necessary for the proper operation of a utility-class electric substation. All exterior materials shall be hurricane-rated.

15.2.2 The modular control building will arrive and be set in place – when possible, to each job site as a pre-constructed module complete with interior AC power, DC power, lighting, HVAC, fire alarm, raceway, cable tray, controls, and communications systems functionally installed and sized per the provided site specific PREPA specifications and drawings. PREPA project personnel will direct the completion of coordinated substation yard to control building interconnection operations which will be completed by others to assure the control building systems are operable.

15.2.3 The modular control building shall be a clear-span, self-supporting, pre-engineered structure of an integrated set of mutually dependent components and assemblies that form a complete metal building system.

15.2.4 The modular control building shall be constructed within the limits of an outdoor air-insulated electric substation facility.

15.2.5 The shipping route analysis, field erection and building installation will be provided by the supplier - complete.

15.3 Design Criteria

15.3.1 Provide a complete, integrated set of mutually dependent components and assemblies that form a metal building system capable of withstanding structural and other loads, thermally induced movement, and exposure to weather without failure or infiltration of water into building interior. Include primary and secondary framing, metal roof panels, metal wall panels, and accessories complying with the requirements indicated.

15.3.2 Pre-engineer a shop fabricated structural steel building system; insulated metal wall and sloped roof system, including soffits, fascia, roof/ceiling plenum ventilation, shall be furnished complete with all accessories ready for mounting, assembly, connections and immediate service.

15.3.3 Provide metal building system of size and spacing, slopes, and spans indicated on the drawing(s).

15.3.4 Building Anchorages; post-installed anchors and cast-in-place anchor bolts required to secure the Control Building Structure to the building's foundation for embedment within the building foundation prior to construction of the building's foundation.

15.3.5 Thermal and Moisture Protection; insulated, weather tight building envelope complete.

15.3.6 Doors, Frames and Hardware; framed openings, door frames, thermally insulated steel doors, thresholds, and electric door hardware.

15.3.7 Interior Finishes; metal ceiling panel system, including access panel(s) to ceiling plenum, metal wall panel system, and metal framing systems for equipment mounting.

15.3.8 Coating Systems; surface preparation, coating system(s) application(s).

15.3.9 Climate Control Equipment; framed openings, self-contained, through-wall mounted HVAC units and control system(s).

15.3.10 Design loads, control building specification, and execution requirements will be provided by PREPA for building fabricator's use and reference to establish performance criteria in accordance with governing agencies and will include all specific and desired characteristics and functional accessories.

15.3.11 Seismic Performance: Design and engineer metal building systems capable of withstanding the seismic loads based on the more severe effects of earthquake motions determined according to ASCE 7, IBC and the Commonwealth or Municipality in which the structure is to be erected.

15.3.12 Roof-mounted PV array attachments shall be provided by the building manufacturer and completely sealed/flashed to maintain a watertight connection. A roof-routed conduit penetration for a 1 inch GRC conduit shall be provided and capped by the vendor prior to shipment. Attachment points shall be per the design drawings.

15.3.13 Penetrations for any external communication equipment (i.e. antennas) shall be provided by the building manufacturer. Penetrations shall include a 1 inch GRC conduit sleeve and shall be capped by the manufacturer prior to shipment.

15.3.14 Animal mitigation shall be provided per IEEE 1264.

15.3.15 Substation yard wiring to the control building shall include the use of marshalling interconnection enclosures or panels. PREPA project personnel will direct the completion of coordinated substation yard to control building interconnection operations which will be completed by others to make the control building systems operable.

15.4 Shop Drawings, Drawing Coordination

15.4.1 For the metal building system components, include plans, elevations, sections, details, attachments to other work, and bill of materials.

15.4.2 Show proposed column locations, structure grounding and lightning protection attachment points, ceiling-mounted and wall-mounted items; including doors, exhaust fan framing, louvers, lighting fixtures, cable tray, wall mounted electrical panels, floor mounted control cabinets, lightning protection air terminals, ground straps, and other equipment. Drawing shall be to scale and shall indicate coordination and spacing of Control Building equipment with that of the Control Building structural components (e.g. Column locations and clearance to cabinets, wall-mounted AC and DC equipment, ceiling mounted cable tray and rafter, including clear height above finished floor, etc.).

15.4.3 The control building supplier will provide accurate drawings of installed control building systems with manufacturer's label, model, and catalog identifiers including ratings, sizes, and interconnection identification points for PREPA reference and use. Connection points for yard wiring will be clearly identified and coordinated to provided drawings and specification guidelines.

15.5 AC Power System

15.5.1 AC Station Service to the control building shall be supplied by PREPA. Operating voltages shall be either single phase 120/240 VAC or three phase 208Y/120 VAC. The control building vendor shall install all necessary AC equipment in the Control Building referencing PREPA's drawings. Vendor shall identify the breakers and circuits necessary for building auxiliary loads requiring AC power (i.e. HVAC units, auxiliary system power supplies, lighting, etc.).

15.5.2 AC panel boards will be in the control building. The AC system shall be comprised of a Main Distribution Panel (MDP) which will serve to feed multiple AC panelboards to provide AC station service. Individual project requirements will dictate the quantity of AC panelboards required and may also negate the need for a Main Distribution Panel (MDP).

15.5.3 AC panelboards shall be 42 circuit position panelboards. Panelboard options will be either single phase 120/240 VAC, three wire or three phase 208Y/120 VAC, four wire. The AC-Critical panelboard, fed from the PV inverter, shall be 30 circuit positions with bolt-on circuit breakers.

15.6 DC Power System

15.6.1 DC panelboards will be in the control building. Each DC system shall be comprised of a Main Distribution Panel (MDP) which will serve to feed multiple DC panelboards to provide redundant DC station service. Individual project requirements will dictate the quantity of DC panelboards. Refer to the PREPA control building drawings for specific project requirements and ratings.

15.6.2 Operating voltages shall be either 125 VDC or 48 VDC (as requested by PREPA). Vendor shall install all necessary DC equipment in the Control Building referencing PREPA's drawings. Vendor shall identify the breakers and circuits necessary for building auxiliary loads requiring DC power (i.e. fire alarm, controls, emergency lighting, etc.).

15.7 Station Battery, Charger

15.7.1 Battery systems installed in the station control buildings shall be sized no larger than a maximum physical size of 800AH 125VDC 60-single two-volt cells (or, if required by PREPA, 48VDC 24-single two-volt cells) on a two-step battery rack. Battery systems shall be provided and installed by the control building vendor as defined in the provided PREPA battery and charger specification and provided PREPA drawings. PREPA will provide specifics on the battery capacity and charger sizing necessary for each station.

15.7.2 Battery systems will be provided and installed on the appropriate battery racks and spill containment per Vendor recommendations. Battery system must include a hydrogen detection system with visual and audible alarms, and 1% and 2% hydrogen relays. Charger must include Auxiliary Alarm Relay Board, Communication Kit (with MOD Bus and DNP3 protocols) and a Fan Control Contactor (to activate fans when charger enter in equalization mode).

15.7.3 Battery charger size shall be based on individual project requirements and are the responsibility of the control building vendor based on PREPA sizing criteria. Refer to the control building equipment layout drawing for location and mounting style.

15.8 Exhaust Fans

15.8.1 Explosion proof, direct drive sidewall exhaust fans shall be provided (1) per battery system by the Vendor. Each exhaust fan shall be complete with a timer, rated for 120 volts AC, have a minimum 8-inch diameter blade, capable of 500 CFM of air movement and be enabled with cyclical operation.

15.8.2 Installation of the exhaust shall include hurricane-rated rain hoods, replaceable dust filters, and an insect screen at 20 meshes per square inch. Exhaust fan wall cutouts shall be constructed with weather stripping and moulding to conceal sharp edges.

15.8.3 Exhaust fans are to be installed within five feet of the battery banks and located a maximum of 2 feet below the ceiling in an area that is accessible during normal substation operation.

15.8.4 Mechanical characteristics of the exhaust fans shall, at a minimum, meet the following:

- Propeller construction shall be fabricated steel, fabricated aluminum or cast aluminum blades and hubs.
- Standard square key and set screw or tapered bushing to lock the propeller to exhaust fan motor shaft.
- Propellers to be statically and dynamically balanced per AMCA Standard 204-5.
- Motors are to be permanently lubricated, heavy duty type. Motors will be matched and procured to meet the required fan RPM and operating voltage.
- Assemblies and enclosure shall be galvanized or painted steel.
- Exhaust fans shall be designed to and bear the AMCA Certified Ratings Seals for Sound and Air Performance.

15.9 Lighting

15.9.1 Building lighting shall utilize tubular light fixtures. All fixtures are to be industrial grade quality, supplied with (2) LED T8, 48-inch lamps with high-efficiency driver, rated for 120 volts AC. Each fixture shall be provided with an aperture reflector. For fixtures designated as emergency lights, a single lamp is to be wired with a self-contained power supply with battery backup. Wiring to the emergency power supply will be connected ahead of the switched leg so that, in the event of AC power loss to the lighting circuit, the emergency lights will illuminate.

15.9.2 Lighting arrangements are to follow the intent shown on the control building and battery room drawings and specification. The cable tray support system should be modified, as much as is practical, to accommodate building lighting. Where accommodations cannot be made, building lighting is to be suspended from the ceiling. Building lighting levels of 50-foot candles minimum shall be provided measured at 3 feet above finish floor, and lighting arranged to minimize shadows.

15.9.3 Building security lighting shall be accomplished using a motion sensor and a photocell operated security light. The security light shall be located and installed on building exterior walls above all entrances. The motion sensor and photocell should be wired such that the motion sensor will not operate the light during the day. A light switch located inside the Control Building shall be wired to override the motion and photo sensor. Operation of the security lighting wiring is to be confirmed prior to shipment.

15.9.4 Lighting should be located above aisles rather than above cabinets and racks.

15.10 Climate Control System

15.10.1 Provided climate control systems shall be presented as an Equipment Schedule on the control building fabrication drawings.

15.10.2 Provide unit descriptions, dimensions, capacities, power requirements, manufacturer and model numbers. Information which describes each system and system component including but not limited to:

- Single Package Vertical HVAC Units.
- Thermostats/controls & control sequence
- Procurement shall not commence until the submittal documentation has been reviewed and accepted by PREPA.
- The environmental control systems should meet the standards for the equipment present such as seen in the ASHRAE Handbook – HVAC Applications for HVAC System Design.
- The recommended temperature range listed is 18 to 27 °C (64 to 81 °F).
- Sixty percent relative humidity is maximum humidity with a dew point range of ≈5.5 °C to 15 °C (42 °F to 59 °F).
- Heat dissipation ≈751 to ≈5016 BTU (220 to 1470 watt-hours) per cabinet

15.11 Fire Protection System

15.11.1 Fire protection work shall include the commissioning and testing and be conducted by a licensed contractor.

15.11.2 Design and Installation

Design and installation of fire protection system shall be per conceptual drawings and specifications for the installation for smoke detection and fire suppression systems in accordance with the latest editions of NFPA-70: National Electric Code, and NFPA-72: National Fire Alarm and Signaling Code.

15.11.3 Fire Extinguishers

Portable fire extinguishers shall be provided for the Control Building and installed in accordance with NFPA 10: Portable Fire Extinguishers. Fire extinguisher shall be a clean agent extinguisher with a minimum Class 2-A: 10-B:C rating.

15.11.4 Smoke Detectors

Smoke detection systems shall be provided for both the control building and the battery room areas of the Control Building. The detection systems shall consist of a Notifier Photoelectronic smoke sensor with base smoke detectors and a Notifier NFS-320 Fire Alarm panel.

At a minimum, (2) smoke detectors for the control building area and (1) smoke detector for the battery room areas are to be installed. The control and battery rooms shall be identified as separate zones for building detection.

The exception to this is when the combination battery and control room design is utilized, then this can be treated as a single zone.

15.11.5 Fire Alarms

Fire alarms shall be installed at each facility and located in the near control building entrances, unless otherwise specified.

15.11.6 Audio/Visual Alarm

A weatherproof horn/strobe combination unit shall be installed on the building exterior wall located at building entrances.

15.11.7 Monitoring and Control

Signals from the fire alarm control panel require monitoring of personnel attending facility via SCADA.

15.12 Cable Tray System

15.12.1 Cable Tray Products

Cable Tray Straight Sections.
Cable Tray Fittings.
Cable Tray Divider, if required.
Fiber cable tray Straight Sections.
Fiber cable tray Fittings.
Hardware & Accessories.

15.12.2 Cable Tray Material & Installation Responsibility

The building supplier shall be responsible for all material takeoff quantities represented on the provided documentation. A material list will be provided to depict general material quantities, types, descriptions, and specifications of the products to be used on each control building for reference and facility documentation. The building contractor is expected to use the bill of material and provided documentation to procure the necessary components to complete the control building construction.

The building supplier shall install the cable tray system per provided documents and in accordance with manufacturer's instructions.

15.13 Raceway Systems

15.13.1 Raceway Products

- Electrical metallic tubing (EMT).
- Galvanized rigid conduit (GRC).
- EMT connectors, fittings, hardware & supports.
- GRC fittings, clamps, & supports.
- EMT terminations to all enclosures, cabinets, wireway, devices & equipment.
- GRC terminations to all enclosures, cabinets, wireway, devices & equipment.

- Wireway, fittings, hardware & accessories.

15.13.2 Raceway Material & Installation Responsibility

The building supplier shall be responsible for all material takeoff quantities represented on the provided documentation. A material list will be provided to depict general material quantities, types, descriptions, and specifications of the products to be used on each control building for reference and facility documentation. The building contractor is expected to use the bill of material and provided documentation to procure the necessary components to complete the control building construction.

The building contractor shall supply and install all control house conduit, fittings, supports, and terminations into equipment housings, enclosures, devices, cabinets or junction boxes. Conduit installation methods including properly sized conduit, fittings, and terminations are to be per referenced standards or as specified on provided reference documentation.

Conduit runs (100A or greater circuits) from and to control building equipment, enclosures, and devices shall be galvanized rigid conduit, utilize threaded fittings, and be securely clamped using galvanized supports unless otherwise indicated.

15.14 Warranty

A draft manufacturer's written warranty shall be submitted for review and approval concurrent with the Pre-Engineered Control Building submittal. Draft warranty shall specifically address the warranty duration as outlined herein. Warranty information shall be submitted for the following:

- Pre-engineered Control Building system.
- Pre-engineered Control Building roof and wall system finish.
- HVAC Unit(s) and other equipment.
- Doors and door hardware.
- Building supplier installed auxiliary systems
- Commissioning documentation of control building auxiliary systems

15.14.1 Building System Warranty: Furnish manufacturer's no-dollar-limit warranty for the Metal Building System. The warranty period shall be no less than 20 years from the date of acceptance of the work and shall be issued directly to the Owner.

15.14.2 The Warranty shall provide that if within the warranty period the metal building system shows evidence of deterioration resulting from defective materials and/or workmanship, correcting of any defects is the responsibility of the Fabricator.

Exhibit C

Transmission Manual

TABLE 1 - 115kV SUSPENSION INSULATORS					
PREPA ITEM ID	DESCRIPTION	L1	LEAKAGE DISTANCE	MFR	MFR PART NO.
VERY HEAVY CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 166"					
-	36k POLYMER SUSPENSION INSULATOR (NOTE 5)	67.5"	175.5"	K-LINE	KL161H1BY40
-	30k POLYMER SUSPENSION INSULATOR (NOTE 6)	63.9"	175.5"	K-LINE	KL161HBY40D
HEAVY CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 131"					
-	36k POLYMER SUSPENSION INSULATOR (NOTE 5)	57.3"	149.0"	HUBBELL	S160043H2010
-	30k POLYMER SUSPENSION INSULATOR (NOTE 6)	51.7"	136.2"	K-LINE	KL138HBY31D
MEDIUM CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 106"					
-	36k POLYMER SUSPENSION INSULATOR (NOTE 5)	50.8"	126.0"	HUBBELL	S160036H2010
-	30k POLYMER SUSPENSION INSULATOR (NOTE 6)	43.6"	110.0"	K-LINE	KL115HBY25D

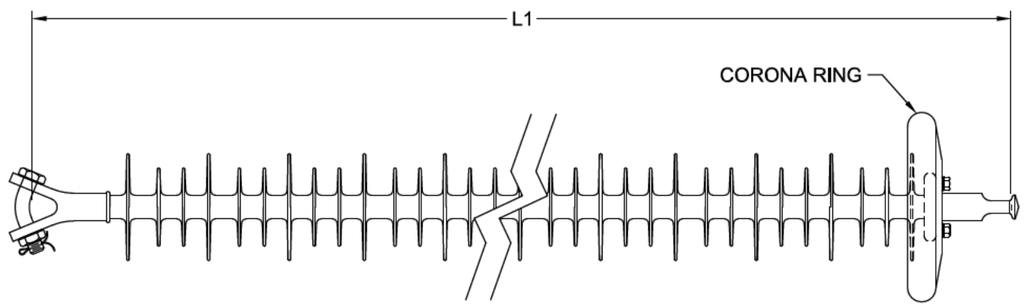

TABLE 2 - PREPA 115kV POLYMER SUSPENSION INSULATOR SPECIFICATION 014-01983	
SYSTEM NOMINAL VOLTAGE (kV)	115
MINIMUM LEAKAGE DISTANCE (INCHES)	125
MINIMUM DRY ARC DISTANCE (INCHES)	54
MINIMUM DRY LOW FREQUENCY AVERAGE FLASHOVER (kV)	535
MINIMUM WET LOW FREQUENCY AVERAGE FLASHOVER (kV)	440
MINIMUM POSITIVE CRITICAL IMPULSE FLASHOVER (kV)	860
MINIMUM NEGATIVE CRITICAL IMPULSE FLASHOVER (kV)	880
NOMINAL LENGTH (INCHES)	SEE TABLE 1
MINIMUM SPECIFIED MECHANICAL STRENGTH (LBS)	SEE TABLE 1

NOTES:

1. INSULATORS SHOWN IN TABLE 1 MEET OR EXCEED THE ELECTRICAL REQUIREMENTS SHOWN IN TABLE 2.
2. LENGTHS ARE BASED ON Y-CLEVIS AND ANSI BALL END FITTINGS.
3. FURNISH INSULATORS WITH CORONA RING.
4. DESIGN INSULATOR STRENGTH IS THE SPECIFIED MECHANICAL LOAD (SML)/2.0
5. 36k SML INSULATORS USE ANSI 52-8 BALL END FITTINGS.
6. 30k SML INSULATORS USE ANSI 52-5 BALL END FITTINGS.
7. SILICONE POLYMER SHEATH TO BE RESISTANT TO ULTRAVIOLET (UV) RADIATION EXPOSURE.
8. INCLUDE THE CORONA RING EFFECT ON MANUFACTURER'S VALUES FOR DRY AND WET LOW FREQUENCY FLASHOVER AND POSITIVE AND NEGATIVE CRITICAL IMPULSE FLASHOVER.

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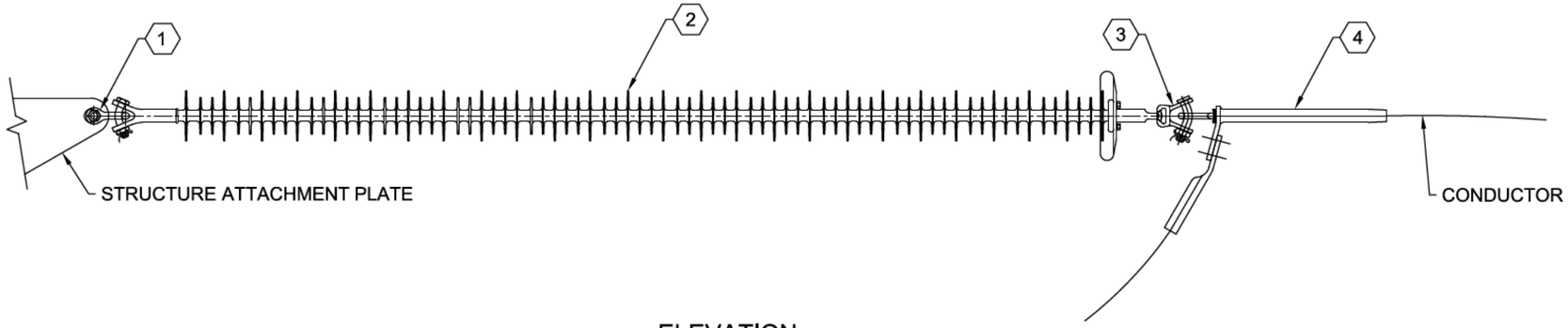
TRANSMISSION LINE STANDARD DRAWING
115kV SUSPENSION INSULATORS

TOH-480101-001

REV. 0

ASSEMBLY BILL OF MATERIAL					
MARK NO.	PREPA ITEM ID	QUANTITY	MATERIAL DESCRIPTION	MFR	CATALOG NO.
1	002-13959	1	40k ANCHOR SHACKLE	HUBBELL	AS35BNK
2	-	1	SILICONE SUSPENSION INSULATOR	-	SEE TOH-580101-001
3	-	1	50k SOCKET Y-CLEVIS	HUBBELL	SYC50
4	-	1	TWO STAGE COMPRESSION DEADEND WITH 15° TERMINAL LUG & FASTENERS	HUBBELL	SEE TABLE BELOW
4A	-	1	JOINT COMPOUND WITH EACH DEADEND - 16 OZ TUBE	HUBBELL	HTJC-16

TWO DIE, SINGLE TONGUE, COMPRESSION DEADEND SIZING TABLE					
WIRE SIZE / TYPE / NAME / STRAND / SPEC NUMBER	PREPA ITEM ID	MFR	CATALOG NO.	DIE SIZE	
				ALUMINUM	STEEL
1192.5 MCM / ACSR/AW / (BUNTING) / 45/7 / PREPA #042-01014	-	HUBBELL	SEDA4918-SS	34AH	12SH
556.5 MCM / ACSR/AW / (PARAKEET) / 24/7 / PREPA #042-00952	-	HUBBELL	SEDA2208-SS	24AH	10SH
266.8 MCM / ACSR/AW / (PARTRIDGE) / 26/7 / PREPA #042-XXXXX	-	HUBBELL	SEDA1190-SS	76AH	76SH
4/0 AWG / ACSR/AW / (PENGUIN) / 6/1 / PREPA #042-XXXXX	-	HUBBELL	SEDA7929	75AH	75SH
3/0 AWG / ACSR/AW / (PIGEON) / 6/1 / PREPA # 042-XXXXX	-	HUBBELL	SEDA7829	75AH	75SH
795 MCM / ACSS/AW / (DRAKE) / 24/7 / PREPA #042-XXXXX	-	HUBBELL	SEDA3309SSAC-SS	30AH	16SH
566.5 MCM / ACSS/AW / (PARAKEET) / 24/7 / PREPA # 042-01075	-	HUBBELL	SEDA2208SSAC-SS	24AH	12SH



ELEVATION

NOTES:

1. ALL FITTINGS ON THE INSULATOR ARE ANSI CLASS 52-8.
2. ACSR COMPRESSION DEAD-ENDS ARE FULL TENSION (95% RBS) FOR STANDARD STRENGTH CORES.
3. ACSS COMPRESSION DEAD-ENDS ARE FULL TENSION (95% RBS) FOR STANDARD, ALUMINUM CLAD (AW) AND HIGH STRENGTH (HS) CORES.
4. PROVIDE CORONA RINGS AT THE ENERGIZED END OF ALL INSULATORS.

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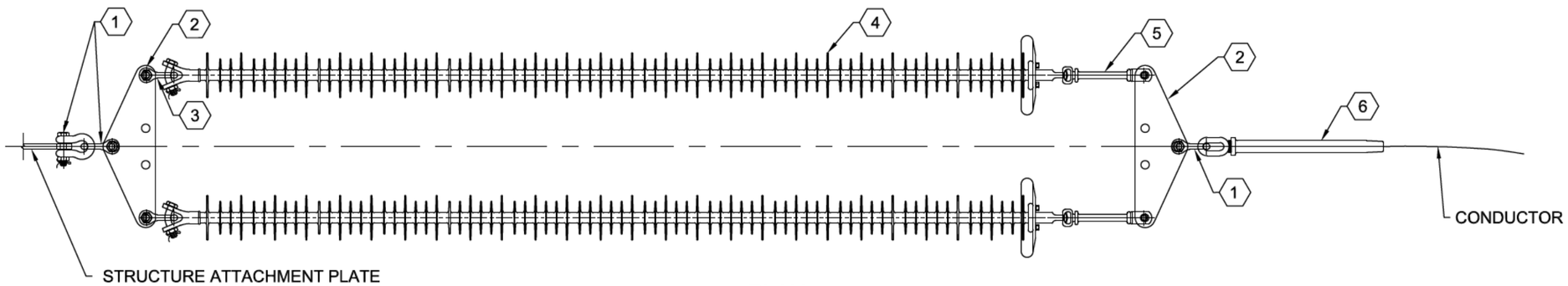
TRANSMISSION LINE STANDARD DRAWING
230kV SINGLE INSULATOR COMPRESSION DEAD-END

TOH-540203-001-01

REV. 0

ASSEMBLY BILL OF MATERIAL					
MARK NO.	PREPA PART ID	QUANTITY	MATERIAL DESCRIPTION	MFR	MFR PART NO.
1	002-XXXXX	3	60k HOT DIP GALV. ANCHOR SHACKLE	HUBBELL	AS50BNK
2	002-XXXXX	2	72k HOT DIP GALV. YOKE PLATE	HUBBELL	YPD7211574
3	002-13959	2	40k HOT DIP GALV. ANCHOR SHACKLE	HUBBELL	AS35BNK
4	014-01983	2	POLYMER 230kV SUSPENSION INSULATOR	-	SEE TOH-580101-001
5	002-XXXXX	2	30k HOT DIP GALV. HOT LINE SOCKET CLEVIS	HUBBELL	HSC100
6	002-XXXXX	1	TWO STAGE COMPRESSION DEADEND WITH 15° TERMINAL LUG & FASTENERS	SEE TOH-540203-001-01	
6A	002-XXXXX	1	HIGH TEMPERATURE JOINT COMPOUND	HUBBELL	HTJC-16



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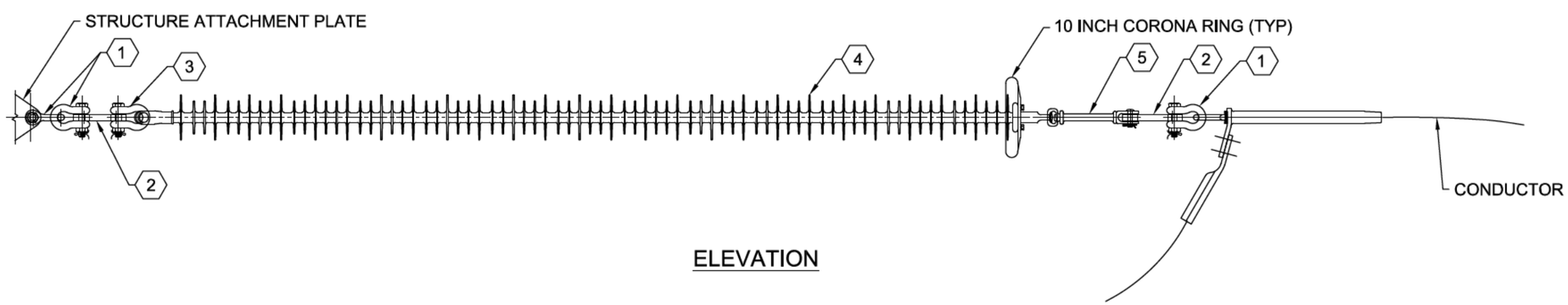

ELEVATION

NOTES:

1. ACSR COMPRESSION DEAD-ENDS ARE FULL TENSION (95% RBS) FOR STANDARD STRENGTH CORES.
2. ACSS COMPRESSION DEAD-ENDS ARE FULL TENSION (95% RBS) FOR STANDARD, ALUMINUM CLAD (AW) AND HIGH STRENGTH (HS) CORES.
3. PROVIDE CORONA RINGS AT THE ENERGIZED END OF ALL INSULATORS.

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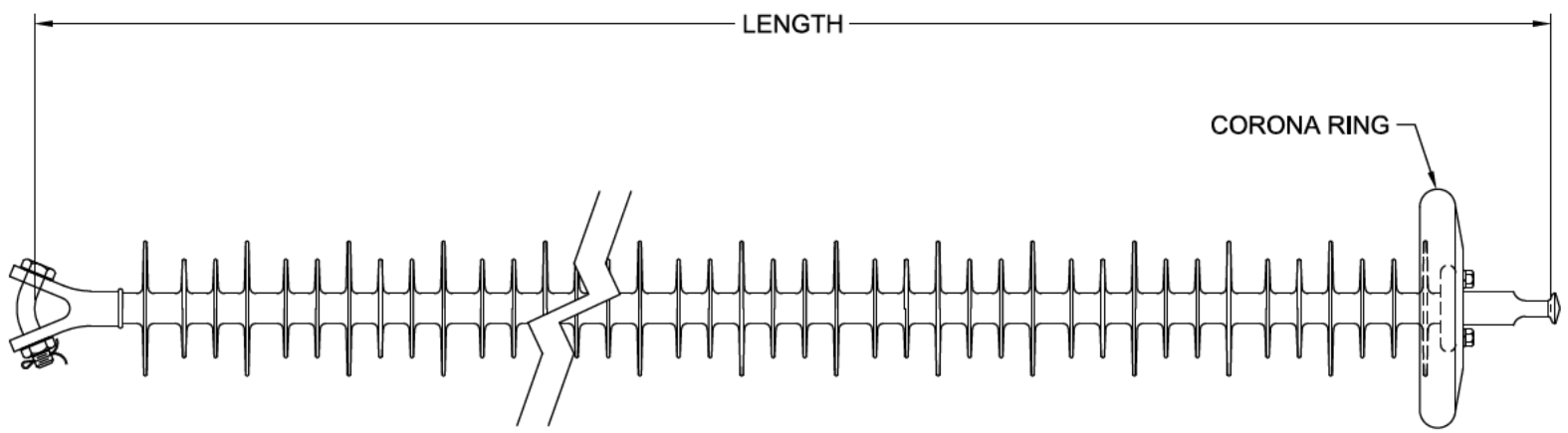
TRANSMISSION LINE STANDARD DRAWING
230kV DOUBLE INSULATOR COMPRESSION DEAD-END

TOH-540203-001-02

REV. 0

TABLE 1 - 230kV SUSPENSION INSULATORS					
PREPA ITEM ID	DESCRIPTION	LENGTH	LEAKAGE DISTANCE	MFR	MFR PART NO.
VERY HEAVY CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 332"					
-	36k POLYMER SUSPENSION INSULATOR (NOTE 5)	114.8"	332.7"	K-LINE	KL400HBY76
-	30k POLYMER SUSPENSION INSULATOR (NOTE 6)	112.8"	332.7"	K-LINE	KL400HB7Y776D
HEAVY CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 266"					
-	36k POLYMER SUSPENSION INSULATOR (NOTE 5)	94.3"	267.2"	K-LINE	KL345HBY61
-	30k POLYMER SUSPENSION INSULATOR (NOTE 6)	92.4"	267.2"	K-LINE	KL345HB7Y761D
MEDIUM CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 222.4"					
-	36k POLYMER SUSPENSION INSULATOR (NOTE 5)	92.0"	254.1"	K-LINE	KL230H1BY58
-	30k POLYMER SUSPENSION INSULATOR (NOTE 6)	88.4"	254.1"	K-LINE	KL230HBY58D

TABLE 2 - PREPA 230kV POLYMER SUSPENSION INSULATOR SPECIFICATION 014-02007	
SYSTEM NOMINAL VOLTAGE (kV)	230
MINIMUM LEAKAGE DISTANCE (INCHES)	SEE TABLE AT RIGHT
MINIMUM DRY ARC DISTANCE (INCHES)	78
MINIMUM DRY LOW FREQUENCY AVERAGE FLASHOVER (kV)	750 + 20
MINIMUM WET LOW FREQUENCY AVERAGE FLASHOVER (kV)	645
MINIMUM POSITIVE CRITICAL IMPULSE FLASHOVER (kV)	1260 + 30
MINIMUM NEGATIVE CRITICAL IMPULSE FLASHOVER (kV)	1310
NOMINAL LENGTH (INCHES)	SEE TABLE 1
MINIMUM SPECIFIED MECHANICAL STRENGTH (LBS)	SEE TABLE 1



NOTES:

1. SELECTED INSULATORS MEET OR EXCEED PREPA SPECIFICATION 014-02007 REQUIREMENTS.
2. LENGTHS ARE BASED ON Y-CLEVIS AND ANSI BALL END FITTINGS.
3. FURNISH INSULATORS WITH CORONA RING.
4. MAXIMUM DESIGN INSULATOR STRENGTH IS THE SPECIFIED MECHANICAL LOAD (SML)/2.0.
5. 36k SML INSULATORS USE ANSI 52-8 BALL END FITTINGS.
6. 30k SML INSULATORS USE ANSI 52-5 BALL END FITTINGS.
7. SILICONE POLYMER SHEATH TO BE RESISTANT TO ULTRAVIOLET (UV) RADIATION EXPOSURE.
8. INCLUDE THE CORONA RING EFFECT ON MANUFACTURER'S VALUES FOR DRY AND WET LOW FREQUENCY FLASHOVER AND POSITIVE AND NEGATIVE CRITICAL IMPULSE FLASHOVER.

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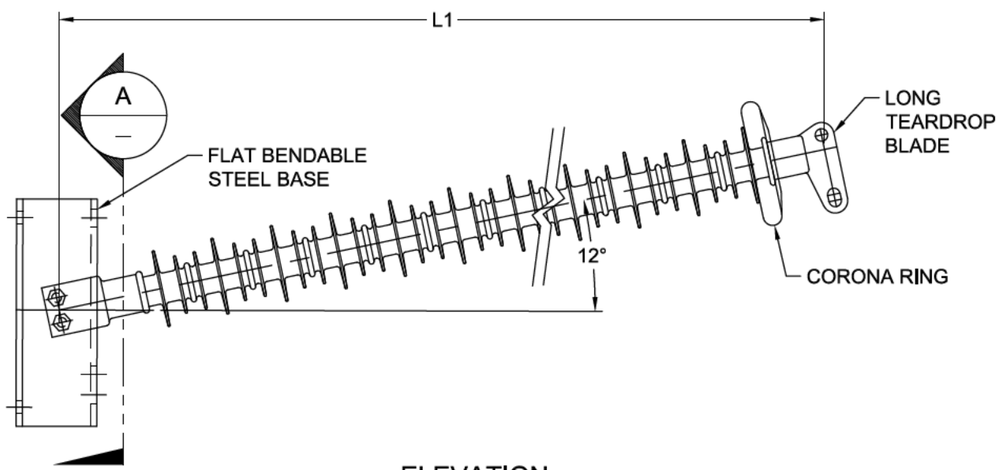
TRANSMISSION LINE STANDARD DRAWING
230kV SUSPENSION INSULATORS

TOH-580101-001

REV. 0

TABLE 1 - 230kV LINE POST INSULATORS WITH FLAT BENDABLE STEEL BASE AND LONG TEARDROP BLADE							
PREPA ITEM ID	DESCRIPTION	L1	LEAKAGE DISTANCE	SCL (LBS)	STL (LBS)	MFR	MFR PART NO.
VERY HEAVY CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 332"							
-	LINE POST INSULATOR WITH FLAT BENDABLE STEEL BASE & LONG TEARDROP BLADE	140.4"	340.3"	2,030	25,000	HUBBELL	P350128S003A
HEAVY CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 266"							
-	LINE POST INSULATOR WITH FLAT BENDABLE STEEL BASE & LONG TEARDROP BLADE	121.6"	289.8"	2,450	25,000	HUBBELL	P350109S003A
MEDIUM CONTAMINATION INSULATORS - MINIMUM LEAKAGE DISTANCE = 220"							
-	LINE POST INSULATOR WITH FLAT BENDABLE STEEL BASE & LONG TEARDROP BLADE	99.1"	226.8"	3,830	25,000	HUBBELL	P350085S003A

TABLE 2 - PREPA 230kV POLYMER POST INSULATOR SPECIFICATION 014-02015	
SYSTEM NOMINAL VOLTAGE (kV)	230
MINIMUM LEAKAGE DISTANCE (INCHES)	220
MINIMUM DRY ARC DISTANCE (INCHES)	78
MINIMUM LOW FREQUENCY DRY FLASHOVER (kV)	720
MINIMUM LOW FREQUENCY WET FLASHOVER (kV)	630
MINIMUM POSITIVE CRITICAL IMPULSE FLASHOVER (kV)	1240
MINIMUM NEGATIVE CRITICAL IMPULSE FLASHOVER (kV)	1300
NOMINAL LENGTH (INCHES)	SEE TABLE 1



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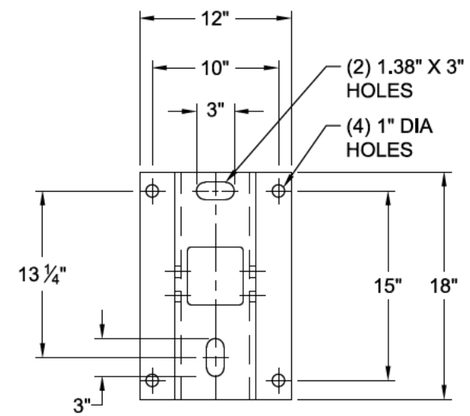

SECTION A

NOTES:

1. INSULATORS SHOWN IN TABLE 1 MEET OR EXCEED THE ELECTRICAL REQUIREMENTS SHOWN IN TABLE 2.
2. MAXIMUM DESIGN CANTILEVER LOAD SHALL BE (SCL)/2.0.
3. FURNISH INSULATORS WITH CORONA RING.
4. LISTED SCL AND STL ARE THE ULTIMATE INSULATOR CANTILEVER AND TENSILE STRENGTHS.
5. SILICONE POLYMER SHEATH TO BE RESISTANT TO ULTRAVIOLET (UV) RADIATION EXPOSURE.
6. INCLUDE THE CORONA RING EFFECT ON MANUFACTURER'S VALUES FOR DRY AND WET LOW FREQUENCY FLASHOVER AND POSITIVE AND NEGATIVE CRITICAL IMPULSE FLASHOVER.

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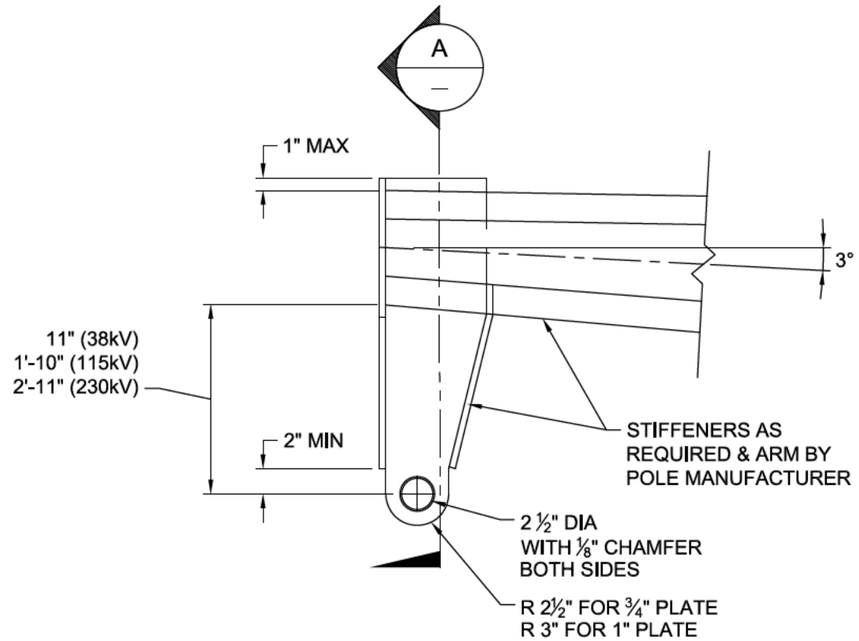
TRANSMISSION LINE STANDARD DRAWING
230kV LINE POST INSULATOR
WITH FLAT BENDABLE STEEL BASE AND LONG TEARDROP BLADE

TOH-580102-001-02

REV. 0



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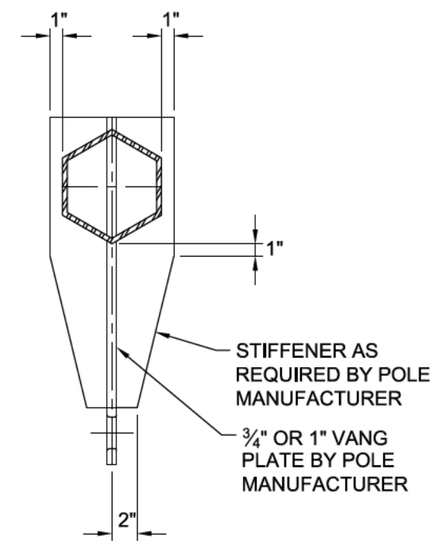

SECTION A

NOTES:

1. CHAMFER THE EDGES OF THE VANG HOLE.
2. POLE VENDOR IS RESPONSIBLE FOR VANG PLATE, STIFFENERS AND ARM DESIGN AND ENSURING THAT ALL CALCULATED LOADS ARE CONSIDERED.
3. FOR SWING ANGLE BRACKET SEE TOH-630408-008.

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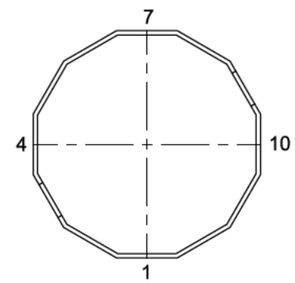
TRANSMISSION LINE STANDARD DRAWING
EXTENDED DROP DOWN SUSPENSION ARM END PLATE

TOH-630305-002

REV. 0



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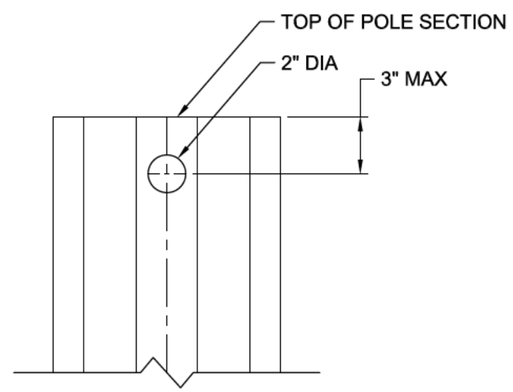
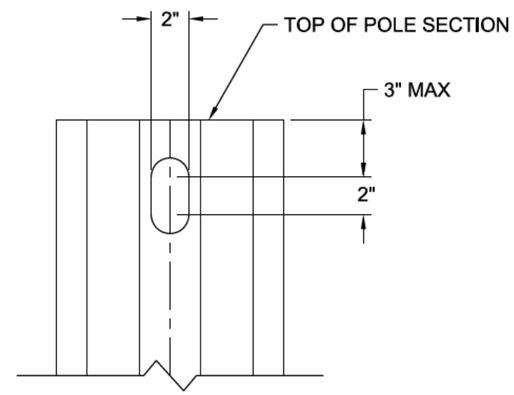


OPTION 1



OPTION 2

NOTES:

1. LIFTING HOLES TO BE INSTALLED IN THE TOP POLE SECTION IN FACES 3 AND 9.
2. LIFTING HOLE FACTORED LOAD CAPACITY TO BE 2 TIMES THE WEIGHT OF THE POLE SECTION WITH ARMS, INSULATORS, HARDWARE AND ALL OTHER ITEMS NORMALLY ATTACHED TO THAT POLE SECTION.
3. ALL REINFORCEMENT OF THE POLE TUBE PLATE WHEN REQUIRED AT THE LIFTING HOLES SHALL BE INSIDE THE POLE.

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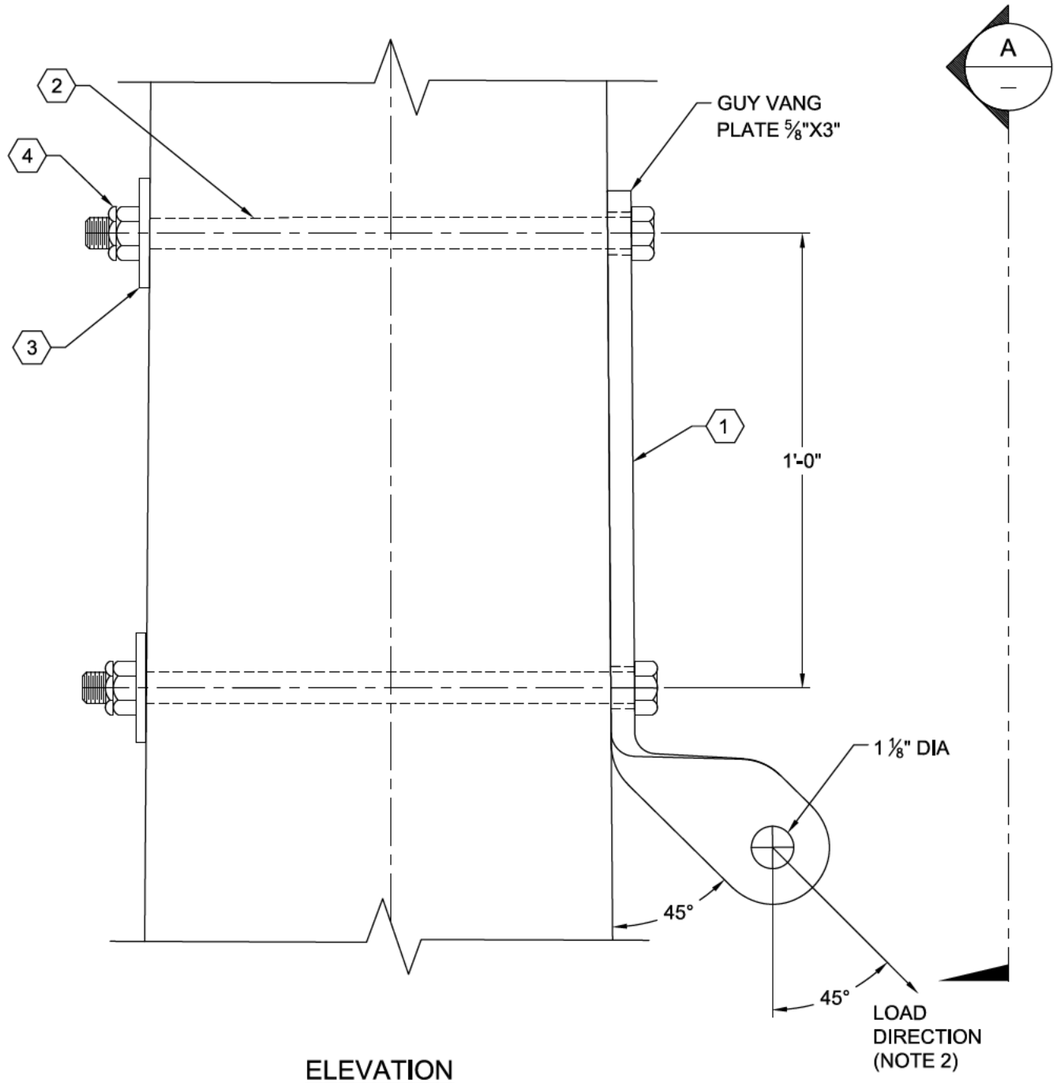
TRANSMISSION LINE STANDARD DRAWING
POLE SECTION LIFTING HOLES

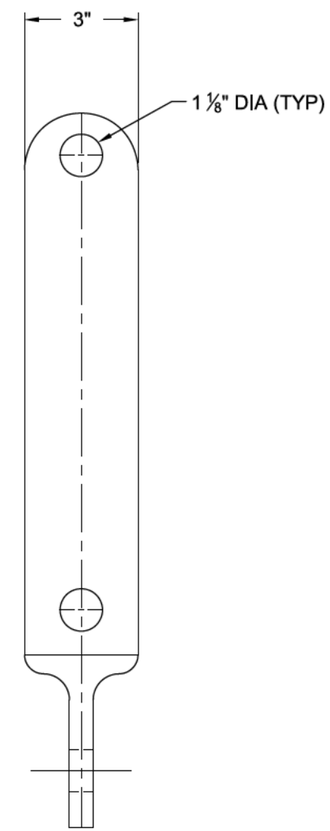
TOH-630407-001

REV. 0

ASSEMBLY BILL OF MATERIAL			
MARK NO.	PREPA ITEM ID	QUANTITY	MATERIAL DESCRIPTION
1	-	1	STEEL GUY PLATE A-572 GR-65 HOT DIP GALVANIZED, HUGHES BROTHERS, PART NO. AS2276-L4
2	-	2	1" DIA HIGH STRENGTH BOLT GRADE A325 TYPE 1 WITH NUT AND 4" THREADING (BOLT LENGTH NOTE 1)
3	-	2	¼"X4"X4" PLATE WASHER, HUGHES BROTHERS PART NO. SW4-100
4	-	2	1" DIA PAL NUT, HUGHES BROTHERS PART NO. PL100



ELEVATION



VIEW A

NOTES:

1. POLE WIDTH PLUS 4 INCHES.
2. GUY PLATE ULTIMATE LOAD IS 20,000 LBS. ALIGN LOAD WITH THE ATTACHMENT PLATE AXIS ± 3 DEGREES.
3. VANG FOR USE ON FLAT-FACED CONCRETE OR STEEL POLES.

REVISIONS

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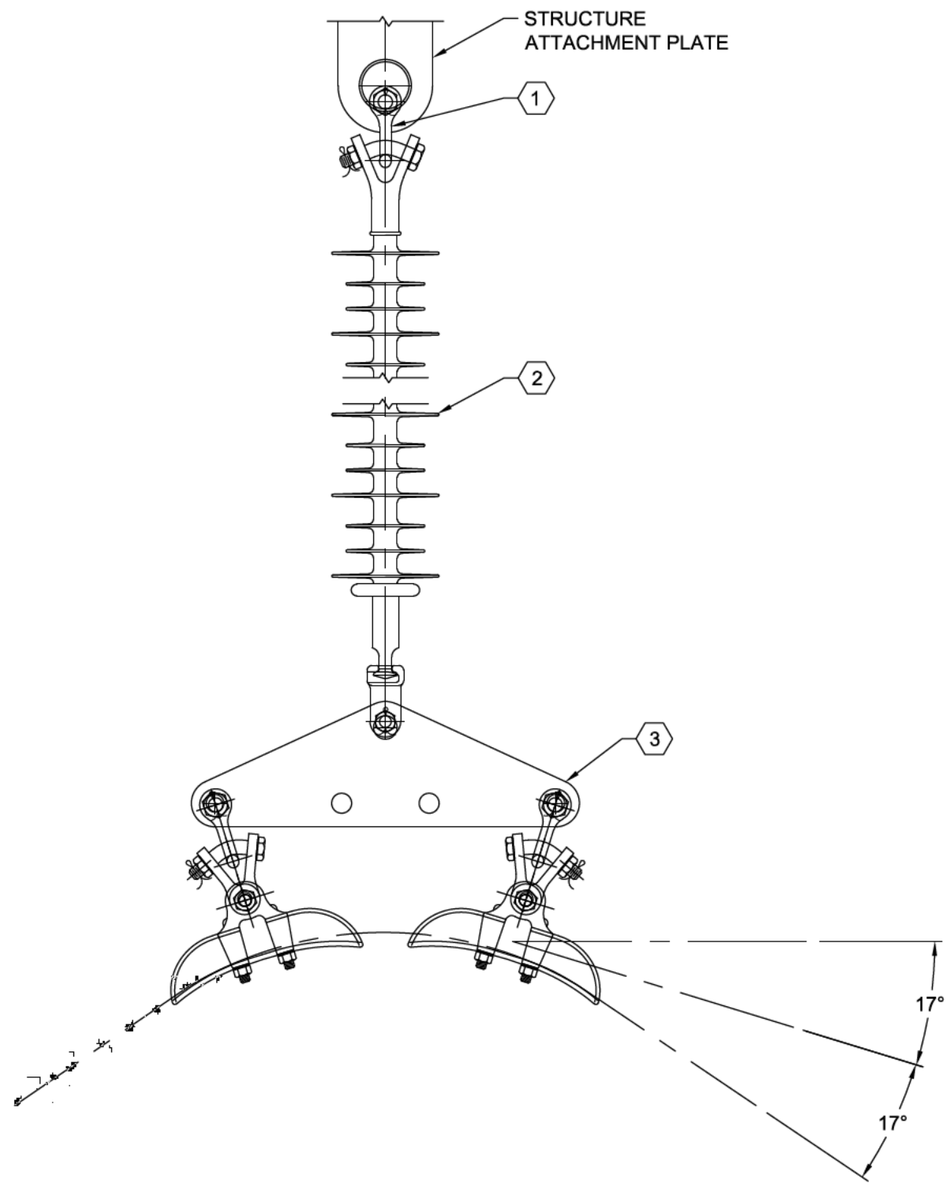
APPROVED

PUERTO RICO ELECTRIC POWER AUTHORITY
TRANSMISSION & DISTRIBUTION DIRECTORATE

TRANSMISSION LINE STANDARD DRAWING
20k BOLTED GUY PLATE VANG

TOH-630408-004

REV. 0



ASSEMBLY BILL OF MATERIAL					
MARK NO.	PREPA ITEM ID	QUANTITY	MATERIAL DESCRIPTION	MFR	MFR PART NO.
1	002-13959	1	40k ANCHOR SHACKLE	HUBBELL	AS35BNK
2	-	1	38kV SUSPENSION INSULATOR	SEE TOH-380101-001	
	-		115kV SUSPENSION INSULATOR	SEE TOH-480101-001	
	-		230kV SUSPENSION INSULATOR	SEE TOH-580101-001	
3	-	1	I-STRING INSULATOR DUAL SUSPENSION CLAMP	SEE TOH-640202-001-04	

NOTES:

1. THIS ASSEMBLY IS FOR WHEN THE CONDUCTOR DEPARTURE ANGLE IS BETWEEN 17 AND 34 DEGREES.

REVISIONS

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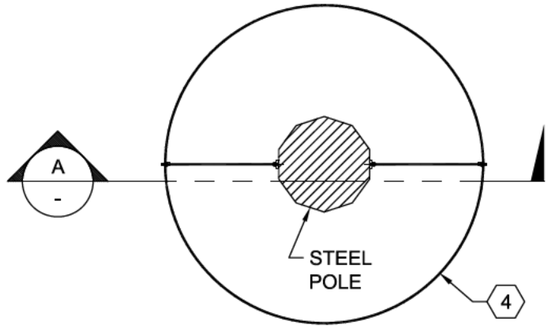
PUERTO RICO ELECTRIC POWER AUTHORITY · CORPORATE SEAL ·

PUERTO RICO ELECTRIC POWER AUTHORITY
TRANSMISSION & DISTRIBUTION DIRECTORATE

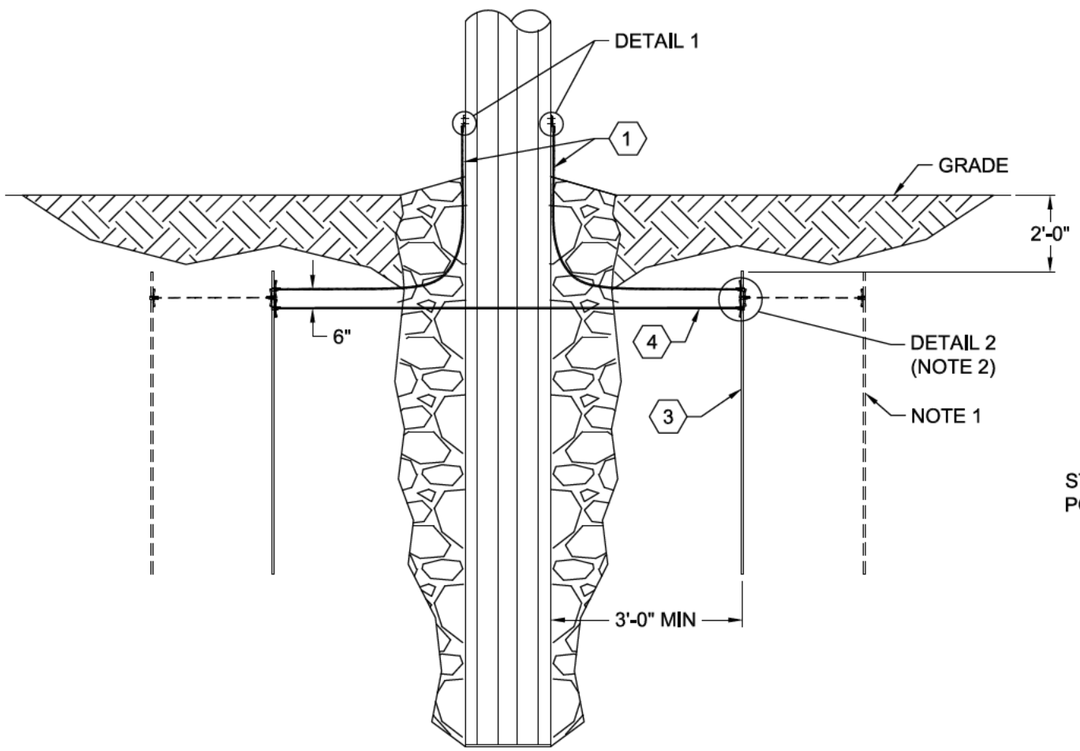
TRANSMISSION LINE STANDARD DRAWING
DOUBLE SUSPENSION CLAMP INSULATOR ASSEMBLY

TOH-640101-002

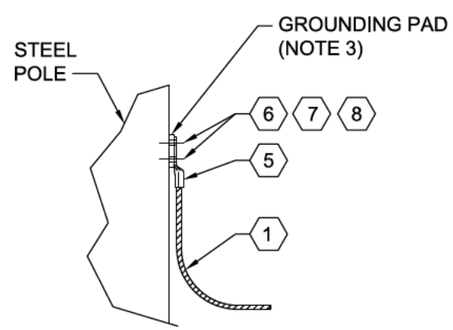
REV. 0



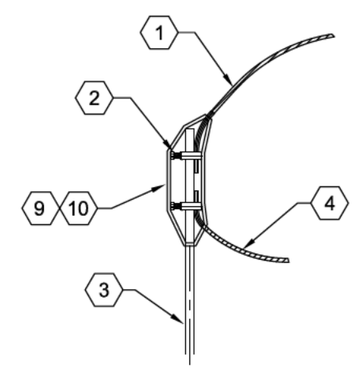
PLAN



SECTION A



DETAIL 1



DETAIL 2

ASSEMBLY BILL OF MATERIAL

MARK NO.	PREPA ITEM ID	QUANTITY	MATERIAL DESCRIPTION	MFR	MFR PART NO.
1	-	20 FT.	7#9 ANNEALED 40% CCS WIRE	AFL	CCS07094D
2	-	5	GROUND ROD CLAMP	BURNDY	GCRT1/0
3	-	2	⅝" X 10' COPPERWELD STEEL GROUND ROD	ERICO	635800
4	-	40 FT.	1/0 - 7 STRAND BARE SOFT CU GROUND WIRE	GENERAL CABLE	1/0 AWG
5	-	2	COPPER 2-HOLE COMPRESSION LUG	BURNDY	YGA252NTN
6	-	4	SCREW, HEX CAP; ½ - 13 X ¾", AUSTENITIC STAINLESS STEEL	FASTENAL	70203
7	-	4	WASHER, REGULAR FIT; ½", AUSTENITIC STAINLESS STEEL	FASTENAL	71022
8	-	4	WASHER, REGULAR HELICAL LOCK; ½", AUSTENITIC STAINLESS STEEL, 1-¼	FASTENAL	71059
9	-	4 ROLLS	MOISTURE SEAL COMPOUND, ⅛" X 3 ¾" X 10 FT	KEARNEY AQUA SEAL	104742
10	-	4 ROLLS	PLASTIC ELECTRICAL TAPE, ¾" X 0.085" X 22 YARDS	3M	NUMBER 37

NOTES:

1. IF MEASURED GROUND RESISTANCE IS GREATER THAN 10 OHMS, INSTALL ADDITIONAL CONNECTED GROUND RODS AT 2X DISTANCE FROM POLE.
2. ALL BELOW GRADE CONNECTIONS TO BE COVERED WITH MOISTURE BARRIER TAPE AND ELECTRICAL TAPE. CADWELD CONNECTIONS MAY BE SUBSTITUTED.
3. FOR STRUCTURE GROUNDING PAD SEE TOH-670501-001-01.

REVISIONS

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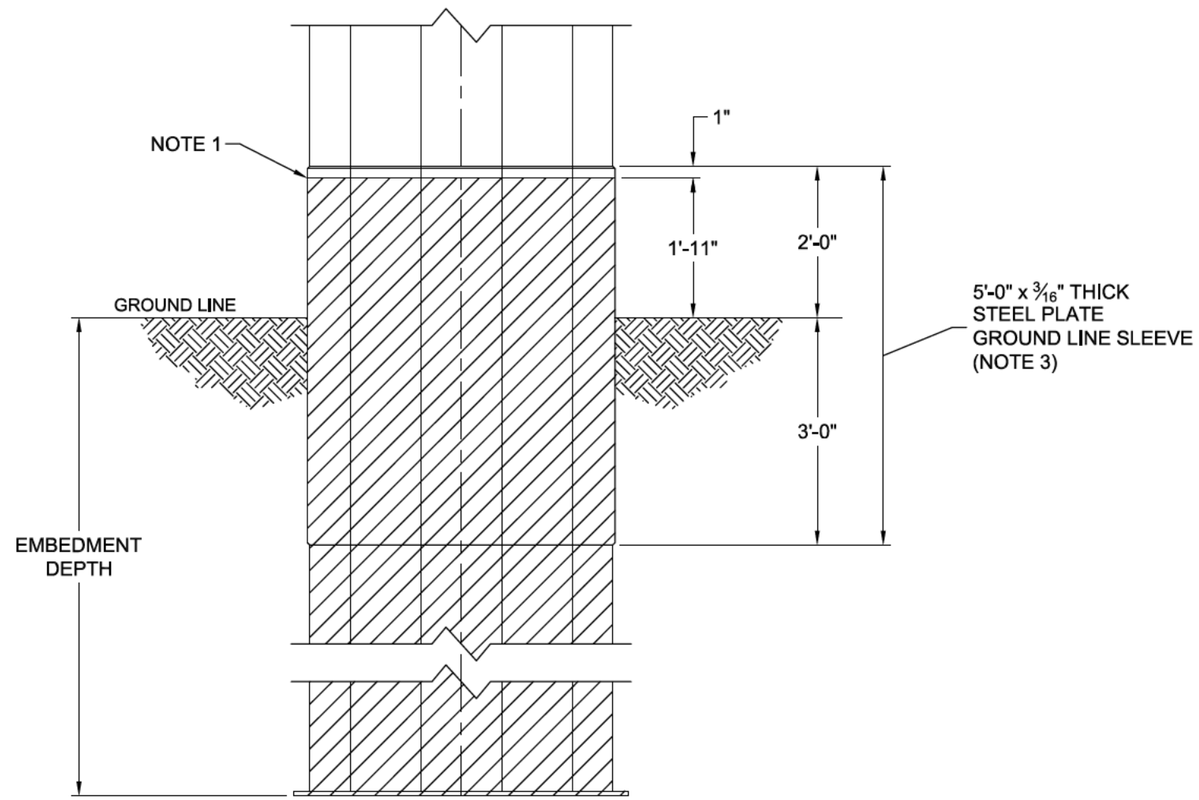
TRANSMISSION LINE STANDARD DRAWING
STEEL POLE GROUNDING

TOH-640501-003

REV. 0



ELEVATION

NOTES:

1. TERMINATE THE BELOW GRADE COATING 1" PRIOR TO THE TOP OF THE GROUND SLEEVE.
2. THE GALVANIZING VENT HOLES IN THE SLEEVE SHOULD BE LOCATED ABOVE THE BELOW GRADE COATING TERMINATION POINT SHOWN ABOVE. IF VENT HOLES MUST BE LOCATED WITHIN THE BELOW GRADE COATING, THE HOLE EDGES SHALL BE PREPARED PER THE REQUIREMENTS OF THE STEEL POLE SPECIFICATION.
3. SLEEVE DIMENSIONS SHOWN ARE MINIMUM DIMENSIONS AND CAN BE ADJUSTED FOR TERRAIN AND ENVIRONMENTAL CONDITIONS.
4. CRUSHED ROCK AT BASE OF POLE MAY BE USED DEPENDING UPON SOIL CONDITIONS.
5. COAT EXTERIOR OF HOT DIP GALVANIZED SHAFT, INCLUDING BEARING PLATE, PER STEEL TRANSMISSION POLE SPECIFICATION TOH-690003-001.

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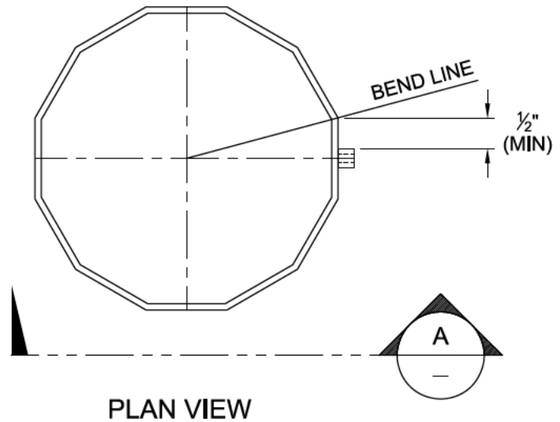
PUERTO RICO ELECTRIC POWER AUTHORITY
TRANSMISSION & DISTRIBUTION DIRECTORATE

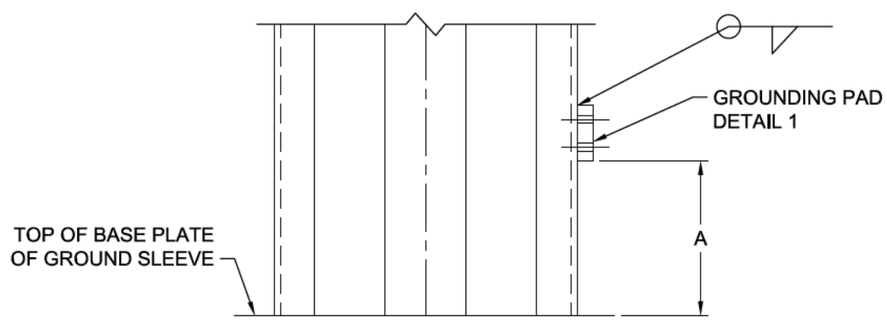
TRANSMISSION LINE STANDARD DRAWING
EMBEDDED POLE GROUND SLEEVE AND CORROSION PROTECTION

TOH-650410-001

REV. 0



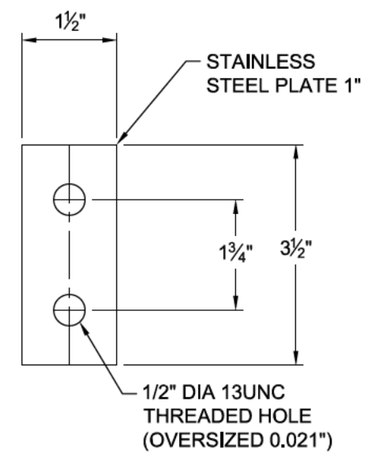
PLAN VIEW



VIEW A

NEMA GROUND PAD LOCATION

PAD LOCATION	A
BASE PLATE	12"
GROUND SLEEVE	2"



DETAIL 1

STAINLESS STEEL NEMA GROUNDING PAD

NOTES:

1. DEFAULT ORIENTATION OF GROUNDING PAD IS VERTICAL.
2. GROUNDING PAD TO BE ANSI GRADE 316L STAINLESS STEEL.
3. GROUNDING PADS SHALL BE PROTECTED PRIOR TO GALVANIZING TO KEEP THE FACE AND THREADS CLEAN.

REVISIONS

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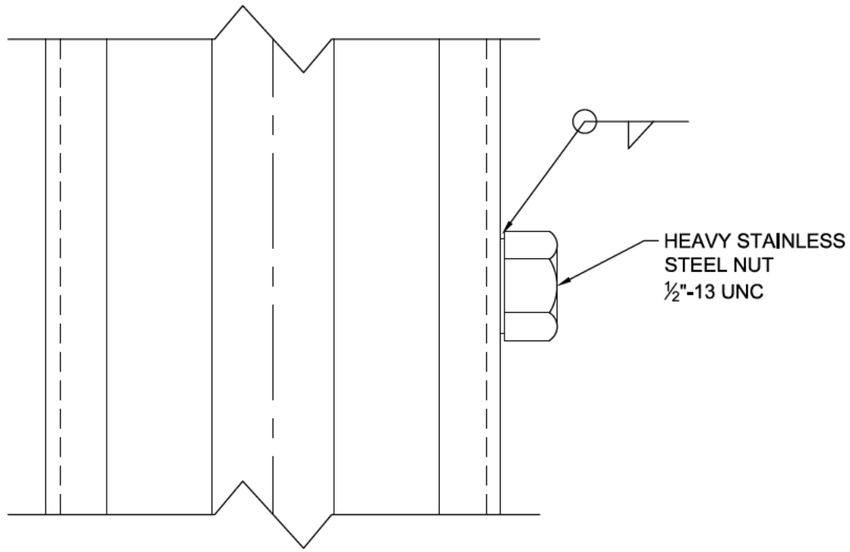
PUERTO RICO ELECTRIC POWER AUTHORITY
TRANSMISSION & DISTRIBUTION DIRECTORATE

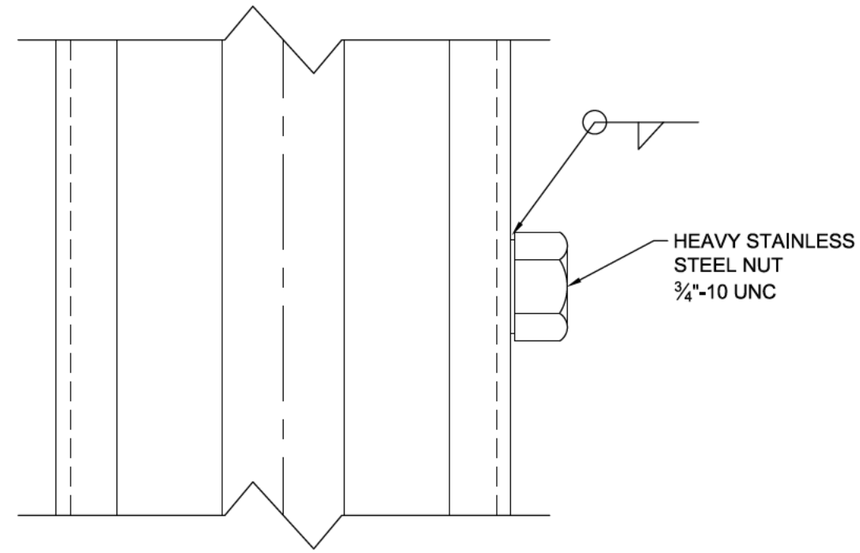
TRANSMISSION LINE STANDARD DRAWING
STRUCTURE GROUNDING PAD

TOH-670501-001-01

REV. 0



BONDING NUT



MAINTENANCE GROUNDING NUT

NOTES:

1. NUTS ARE TO BE ASTM F594 GROUP 2, ANSI GRADE 316L STAINLESS STEEL.
2. ¾" GROUNDING NUT TO BE USED IN CONJUNCTION WITH ¾"-10 X 6" LONG BRONZE ALLOY GROUNDING BOLT TO PROVIDE ATTACHMENT POINT FOR TEMPORARY AND PERSONAL GROUNDS DURING MAINTENANCE OPERATIONS.
3. BONDING AND GROUND NUTS SHALL BE PROTECTED PRIOR TO GALVANIZING TO KEEP THE NUT FACE AND THREADS CLEAN.

REVISIONS

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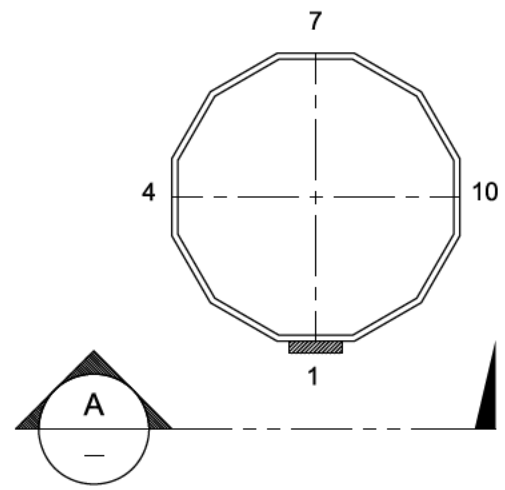
PUERTO RICO ELECTRIC POWER AUTHORITY
TRANSMISSION & DISTRIBUTION DIRECTORATE

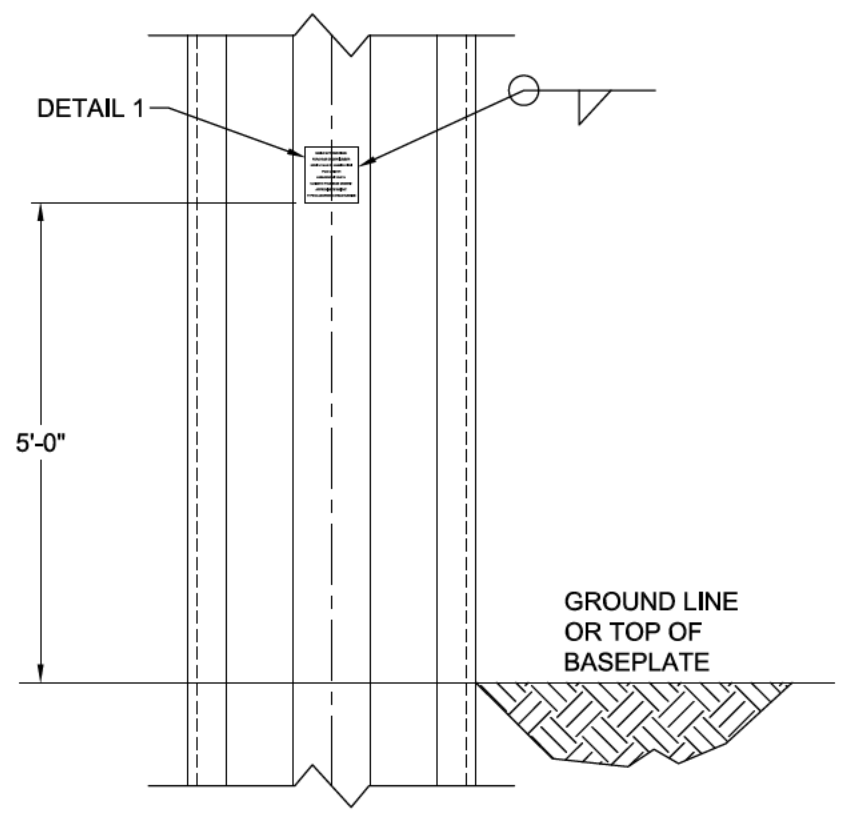
TRANSMISSION LINE STANDARD DRAWING
BONDING AND GROUNDING NUTS

TOH-670501-001-02

REV. 0



PLAN



VIEW A

MANUFACTURER NAME
PURCHASE ORDER NUMBER
MONTH/YEAR OF FABRICATION
POLE LENGTH
EMBEDMENT DEPTH
ULTIMATE POLE BASE MOMENT (FT-KIP)
APPROXIMATE WEIGHT
TYPE/CLASS/PREPA SEQUENCE ID#

DETAIL 1

LETTER DETAIL

NOTES:

1. INSTALL ON FACE 1 WHERE POSSIBLE UNLESS VIEW IS OBSTRUCTED.
2. POLE CLASS IS ONLY REQUIRED FOR CLASS EQUIVALENT POLES.
3. FOR SEAL WELDING REQUIREMENTS AROUND NAME PLATE SEE STEEL TRANSMISSION POLE SPECIFICATION TOH-690003-001.

REVISIONS

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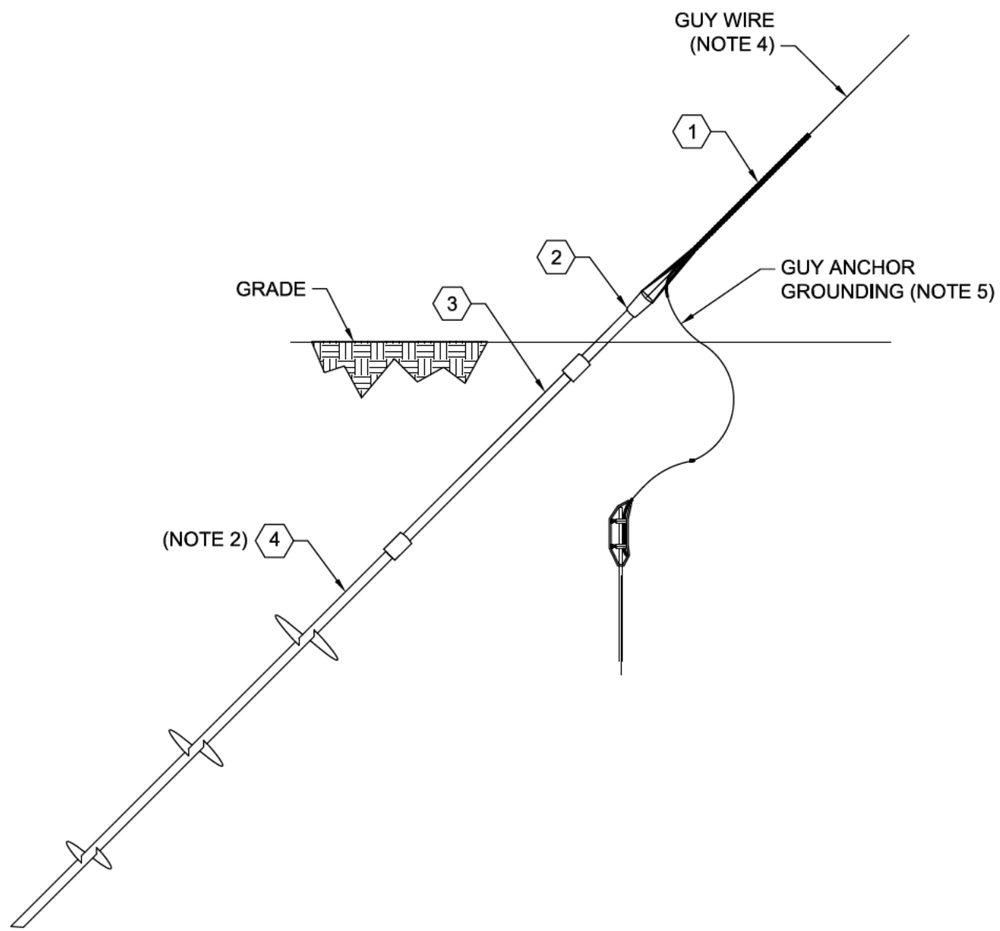
TRANSMISSION LINE STANDARD DRAWING
STRUCTURE NAME PLATE

TOH-671202-001

REV. 0



ELEVATION

ASSEMBLY BILL OF MATERIAL					
MARK NO.	DESCRIPTION	QUANTITY	PREPA PART ID	MFR	MFR PART NO.
1	GUY GRIP - SEE SELECTION TABLE BELOW	1	-	PLP	-
2	THIMBLE EYE ADAPTER	1	-	AB CHANCE	T1100312
3	58" EXTENSION	NOTE 3	-	AB CHANCE	C1100564
	80" EXTENSION	NOTE 3	-	AB CHANCE	C1100565
	123" EXTENSION	NOTE 3	-	AB CHANCE	C1100566
4	MULTI HELIX ANCHOR LEAD SECTION	1	-	AB CHANCE	C1100570

GUY GRIP SELECTION TABLE			
GUY WIRE	PREPA PART ID	MFR	MFR PART NO.
3/8" GALVANIZED GUY WIRE - 10,800 LBS RBS	046-00086	PLP	GDE-1107
1/2" GALVANIZED GUY WIRE - 26,900 LBS RBS	046-00219	PLP	BG-2115
1/0#5 ALUMOWELD GUY WIRE - 73,400 LBS RBS	046-00227 / 002-13975	PLP	BG-4187

NOTES:

1. MULTI HELIX ANCHOR, EXTENSIONS AND THIMBLE EYE TO BE HOT DIP GALVANIZED.
2. MINIMUM EMBEDMENT DEPTH TO BE 10 FEET ABOVE TOP HELIX.
3. ENGINEER OF RECORD TO DETERMINE QUANTITY AND LENGTH OF EXTENSIONS REQUIRED TO REACH THE DESIGN DEPTH AND TORQUE BASED UPON GEOTECHNICAL DATE AND MANUFACTURER'S SPECIFICATIONS.
4. FOR GUY WIRE AND GUY MARKER SEE TOH-680304-005-00.
5. FOR GUY ANCHOR GROUNDING ASSEMBLY SEE TOH-690202-001.

REVISIONS

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PUERTO RICO ELECTRIC POWER AUTHORITY
TRANSMISSION & DISTRIBUTION DIRECTORATE

TRANSMISSION LINE STANDARD DRAWING
MULTI HELIX ANCHOR ASSEMBLY

TOH-680304-005-01

REV. 0

Exhibit D

Streetlighting Manual

Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, May 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

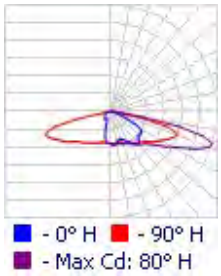
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	110.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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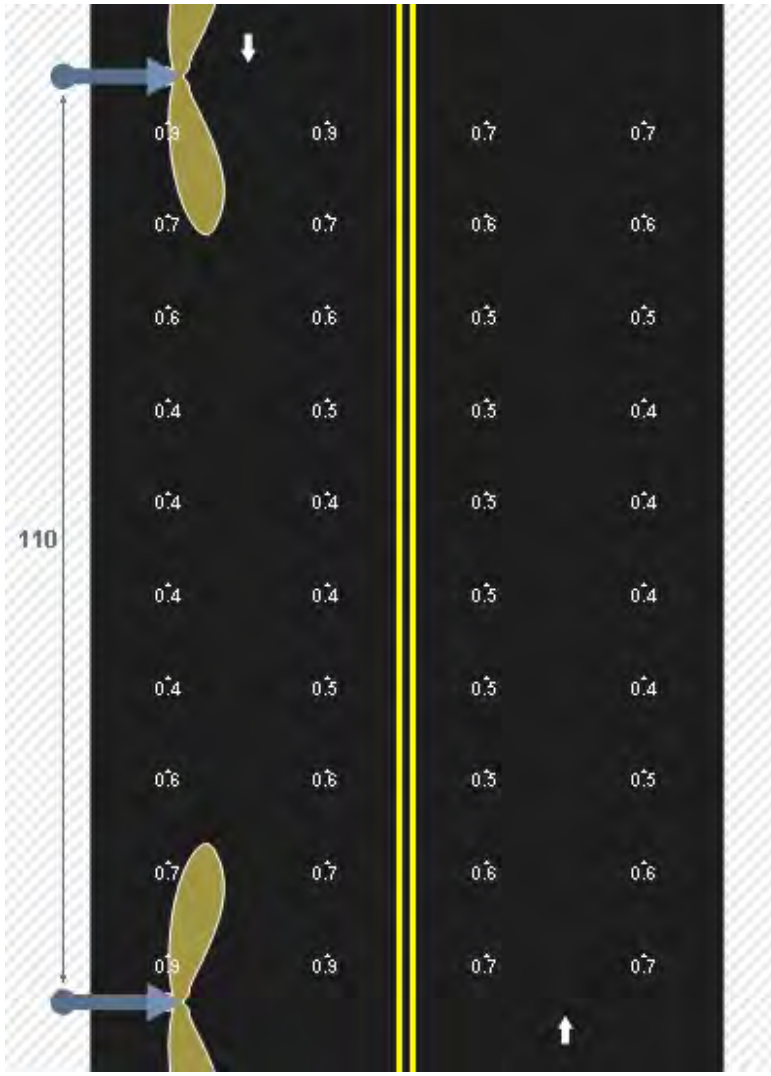
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.5	cd/m²
Max:	0.7	0.6	cd/m²
Min	0.6	0.4	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.5	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.6	1.3	
Max/Min:	2.4	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Wednesday, April 07, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

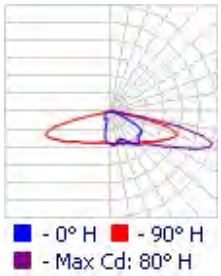
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

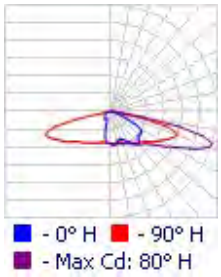
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	234.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	234.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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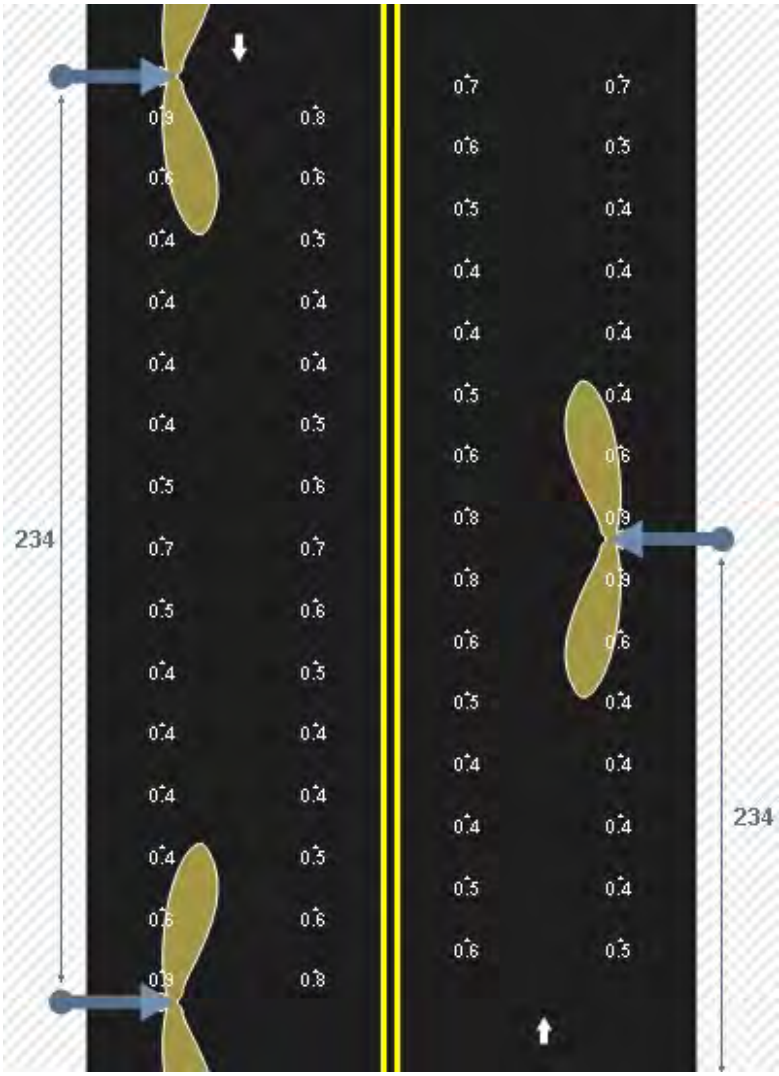
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.9	fc
Min	0.4	0.4	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.4	2.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 27, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

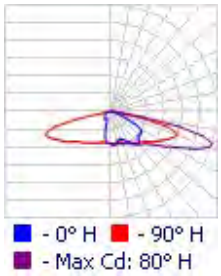
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

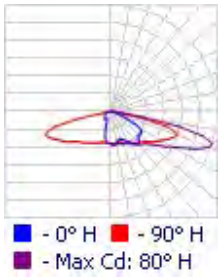
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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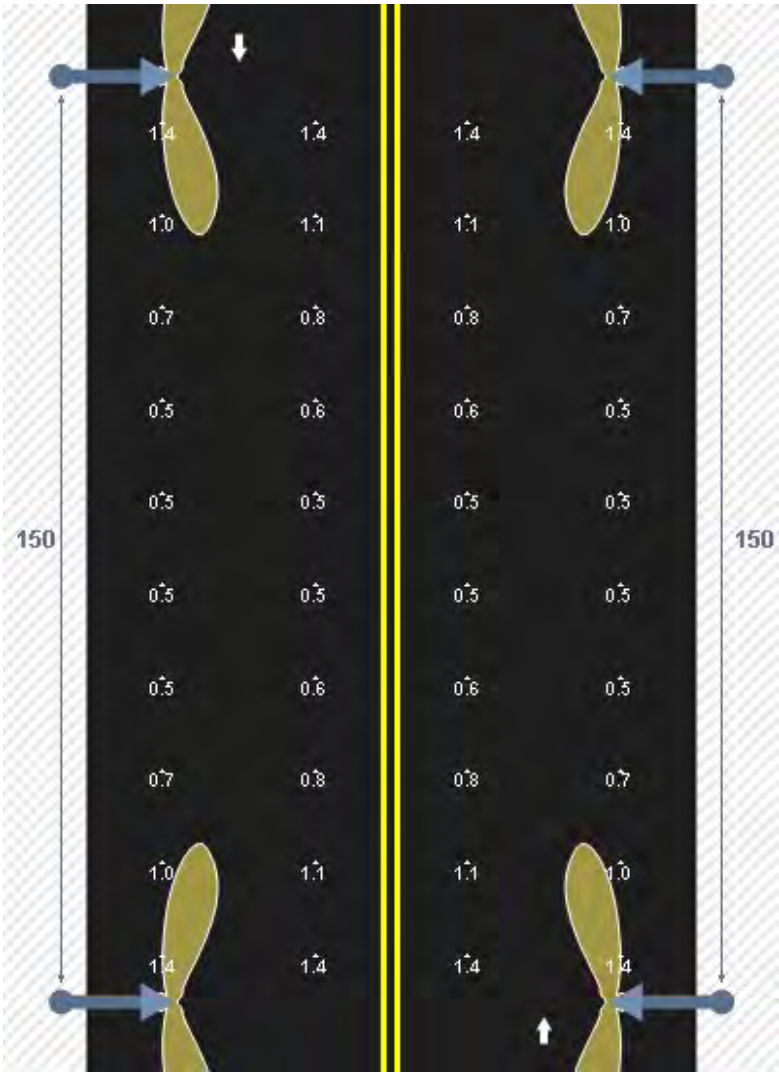

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.3	0.3	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.8	0.8	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.8	1.8	
Max/Min:	3	3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, May 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

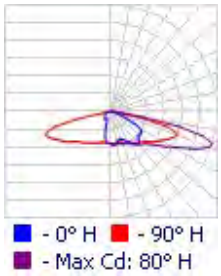
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	113.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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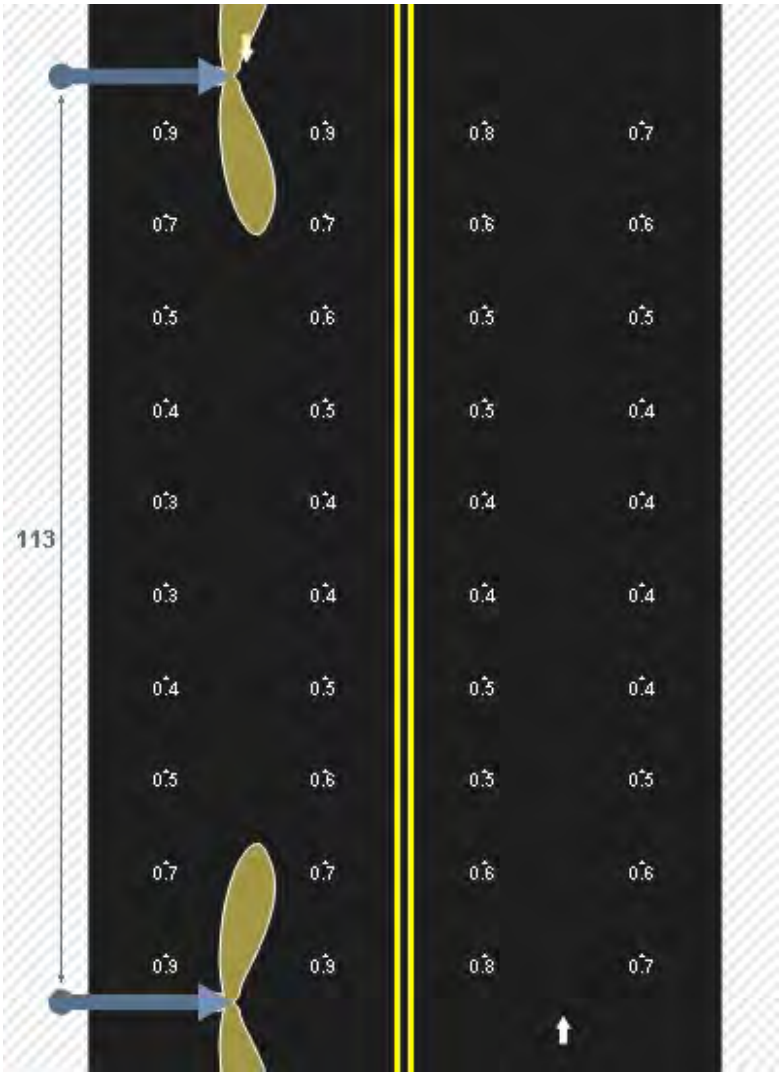

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.5	cd/m²
Max:	0.7	0.6	cd/m²
Min	0.5	0.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.8	fc
Min	0.3	0.4	fc
Ave/Min:	1.8	1.3	
Max/Min:	2.8	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Wednesday, April 07, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

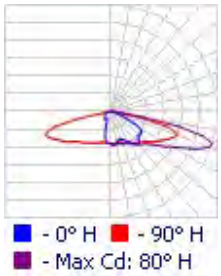
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

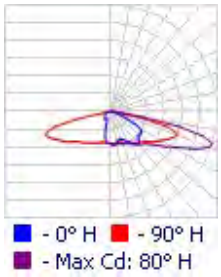
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	234.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	234.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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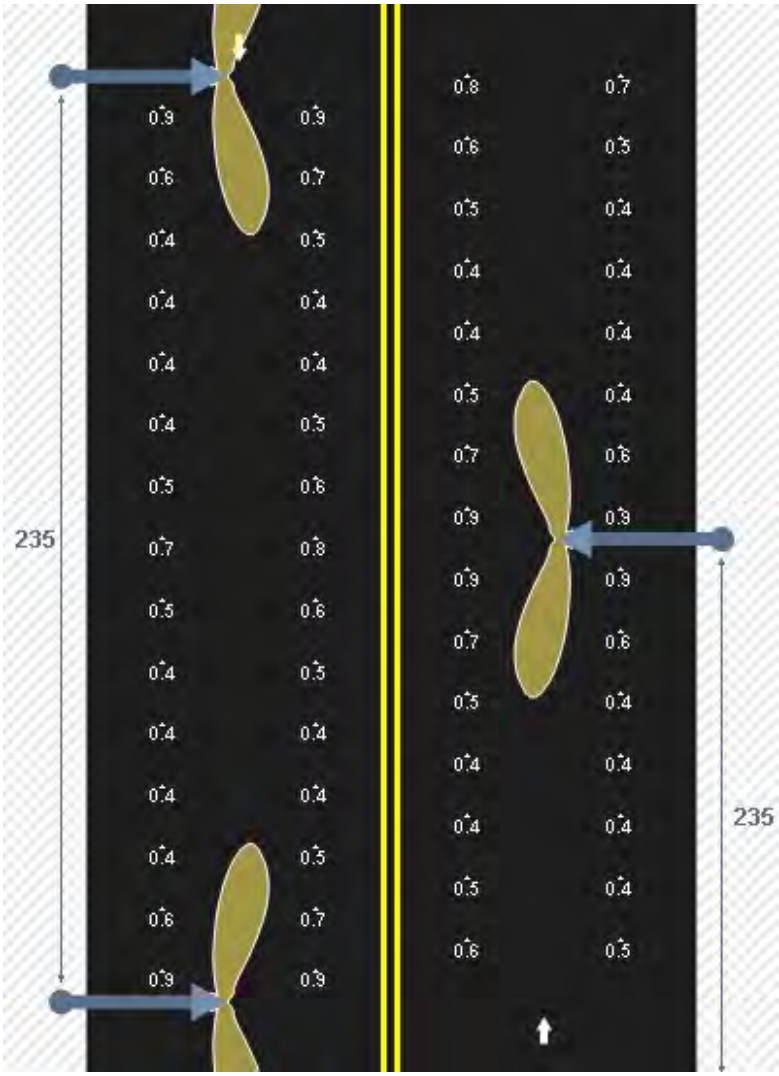

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.9	fc
Min	0.4	0.4	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.4	2.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 27, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

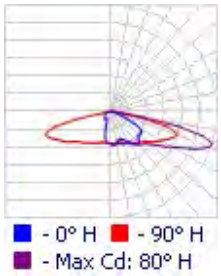
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

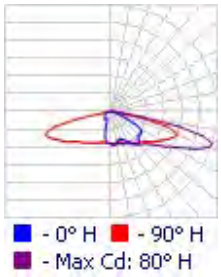
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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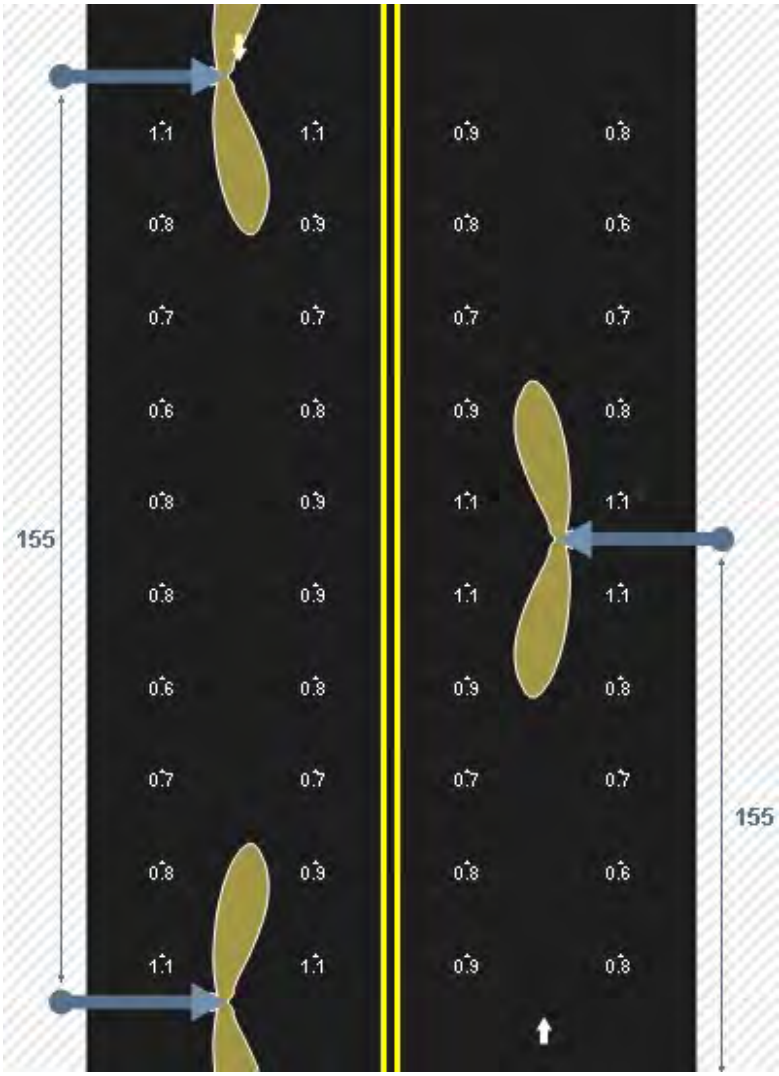
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.8	0.8	fc
Max:	1.1	1.1	fc
Min	0.6	0.6	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

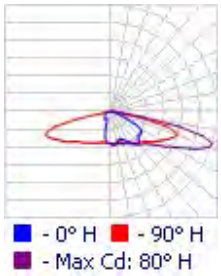
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

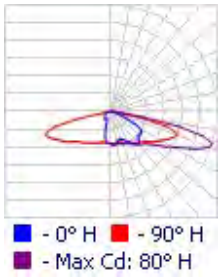
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	200.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	200.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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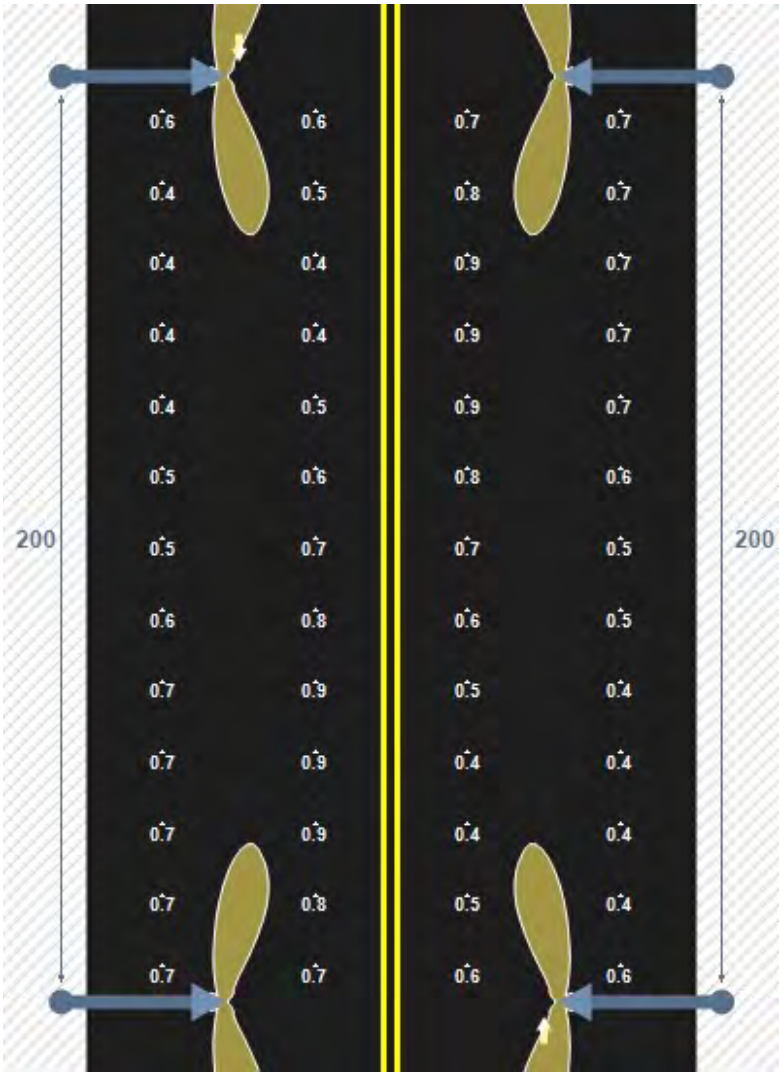
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.6	0.6	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.9	0.9	cd/m²	Max:	1.5	1.5	fc	Min	--	--	fc
Min	0.4	0.4	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.6	1.6		Ave/Min:	3	3		Ev Min:	--	--	fc
Max/Min:	2.3	2.3		Max/Min:	7.1	7.1		**Bikelane**			
Lv Ratio:	0.3	0.3						Average:	--	--	fc
STV:	3.3	3.3						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

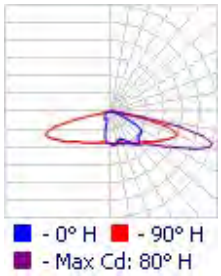
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

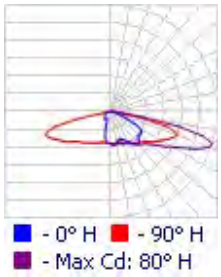
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	198.21 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	198.21 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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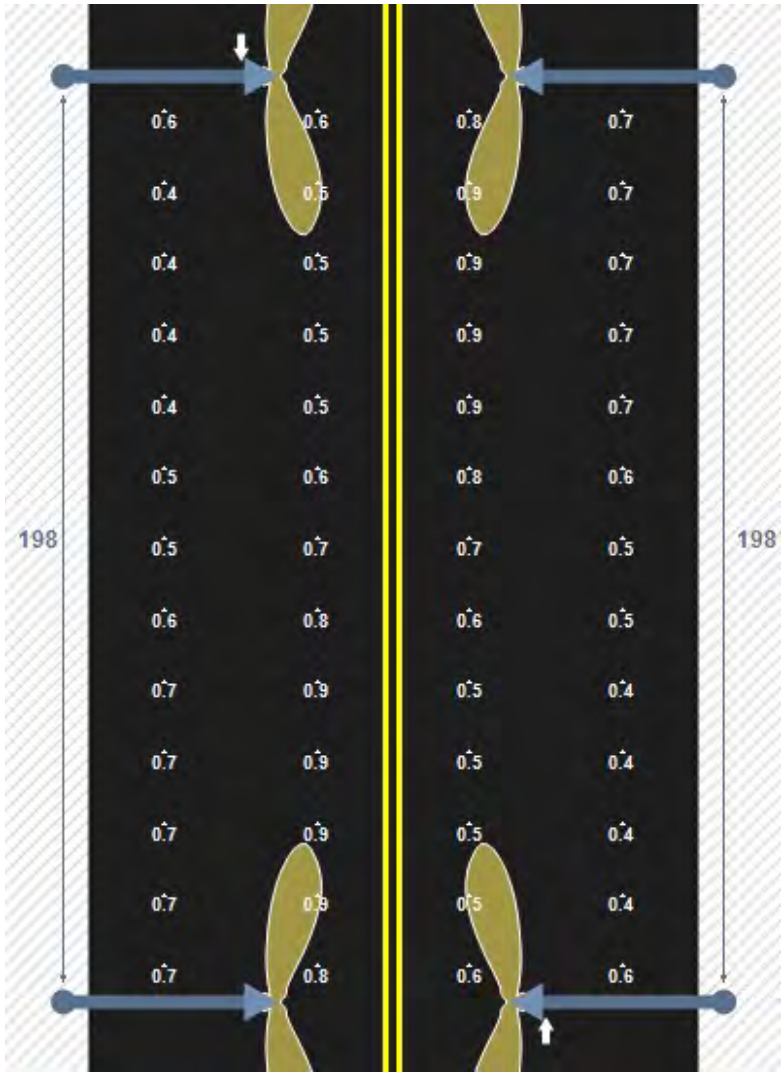
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.6	0.6	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.9	0.9	cd/m²	Max:	1.6	1.6	fc	Min	--	--	fc
Min	0.4	0.4	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.7	1.7		Ave/Min:	3	3		Ev Min:	--	--	fc
Max/Min:	2.4	2.4		Max/Min:	7.4	7.4		**Bikelane**			
Lv Ratio:	0.3	0.3						Average:	--	--	fc
STV:	3.3	3.3						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, May 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

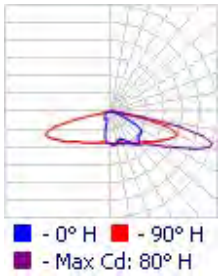
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	115.92 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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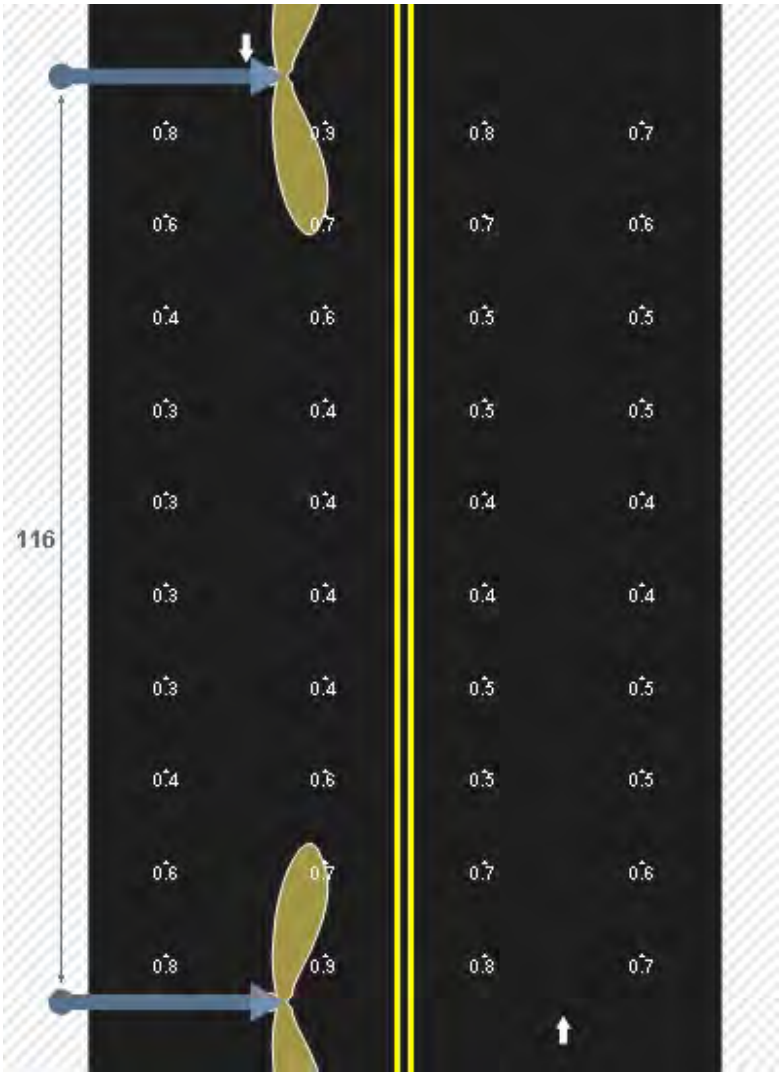

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.5	cd/m²
Max:	0.7	0.6	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.3	1.2	
Max/Min:	1.6	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.8	fc
Min	0.3	0.4	fc
Ave/Min:	2	1.3	
Max/Min:	3.3	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Wednesday, April 07, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

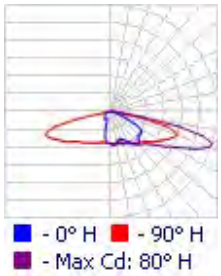
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

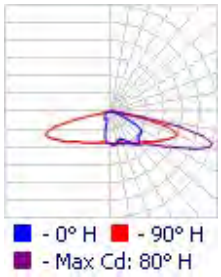
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	232.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	232.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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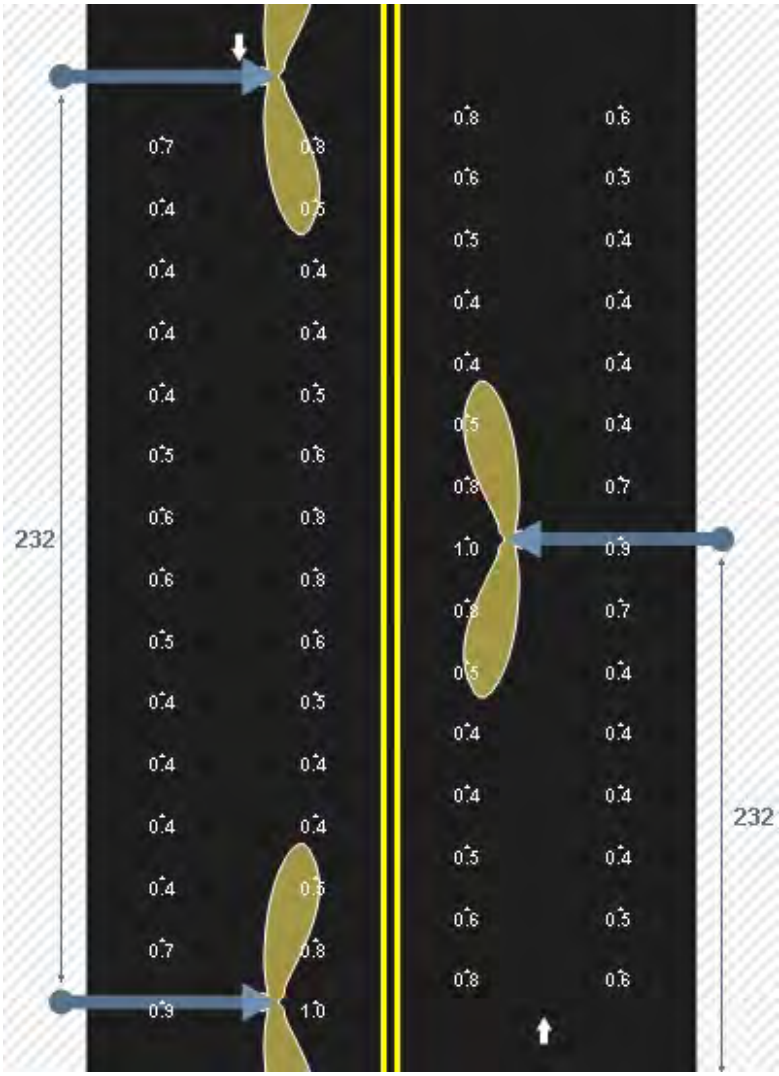

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1	1	fc
Min	0.4	0.4	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, May 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

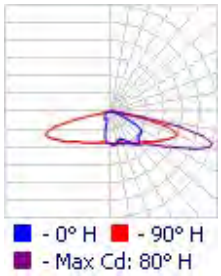
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	89.34 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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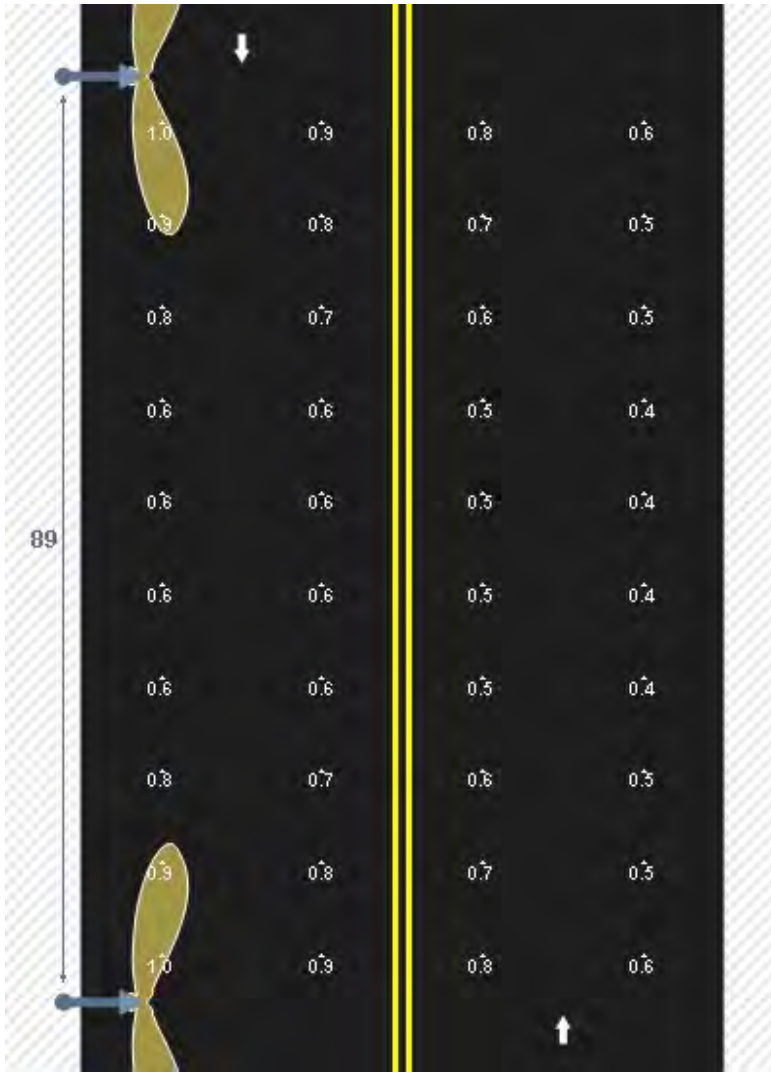

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.4	cd/m²
Max:	0.9	0.6	cd/m²
Min	0.7	0.3	cd/m²
Ave/Min:	1.1	1.5	
Max/Min:	1.3	2	
Lv Ratio:	0.2	0.2	
STV:	1	1.6	

Illuminance	Left	Right	
Average:	0.8	0.6	fc
Max:	1	0.8	fc
Min	0.6	0.4	fc
Ave/Min:	1.3	1.4	
Max/Min:	1.8	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 07, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

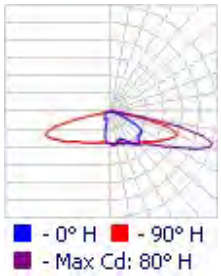
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

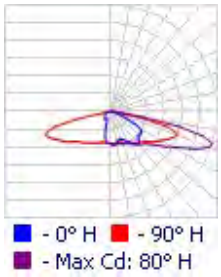
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	213.38 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	213.38 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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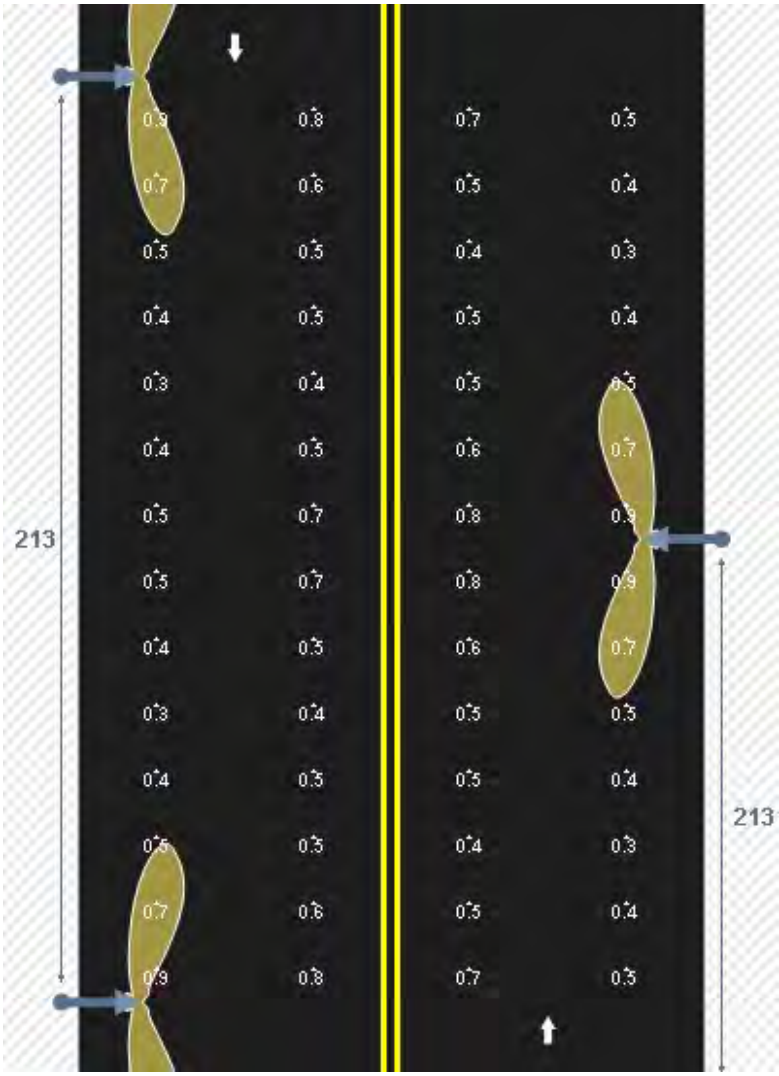

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1	1	fc
Min	0.3	0.3	fc
Ave/Min:	1.7	1.7	
Max/Min:	3	3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 27, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

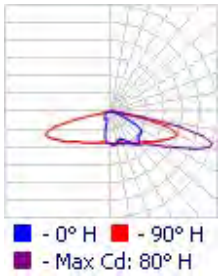
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

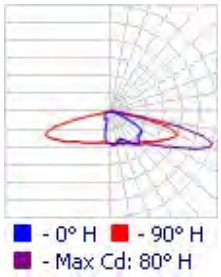
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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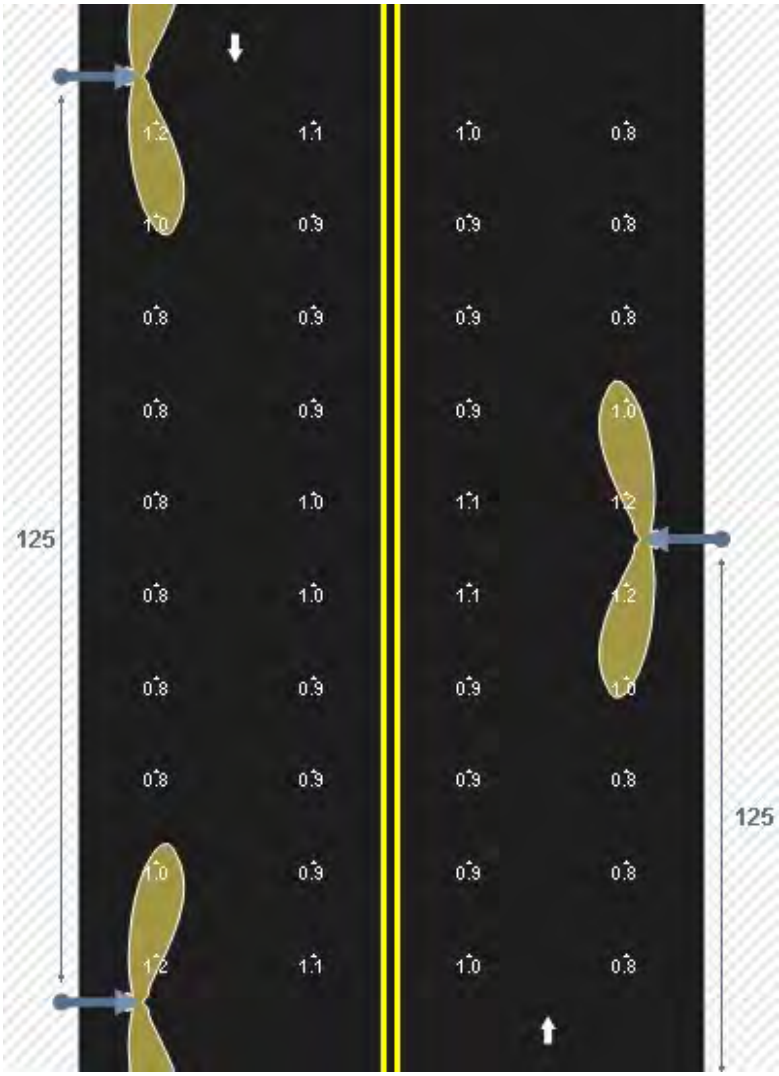

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.8	0.8	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

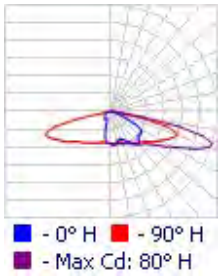
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

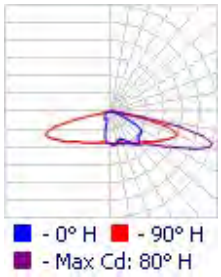
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	201.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	201.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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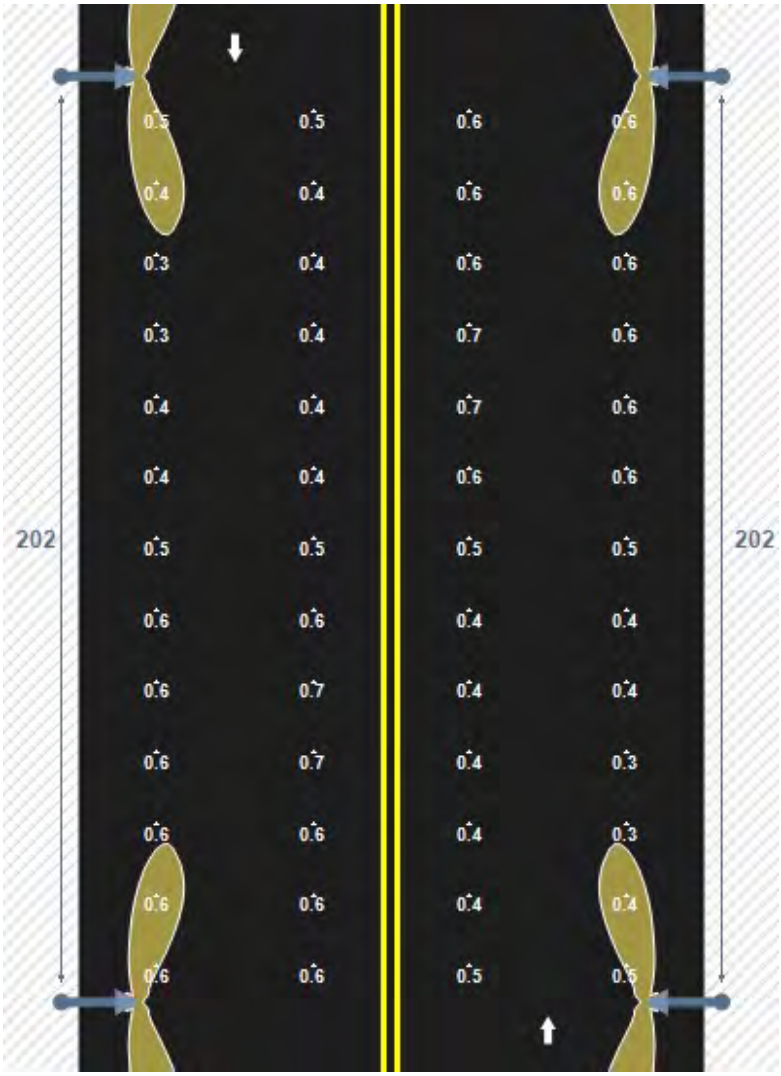

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	0.5	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.7	0.7	cd/m²	Max:	1.3	1.3	fc	Min	--	--	fc
Min	0.3	0.3	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.5	1.5		Ave/Min:	2.9	2.9		Ev Min:	--	--	fc
Max/Min:	2.1	2.1		Max/Min:	6.3	6.3		**Bikelane**			
Lv Ratio:	0.3	0.3						Average:	--	--	fc
STV:	3.1	3.1						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, May 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

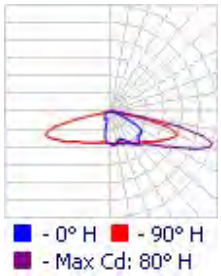
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	95.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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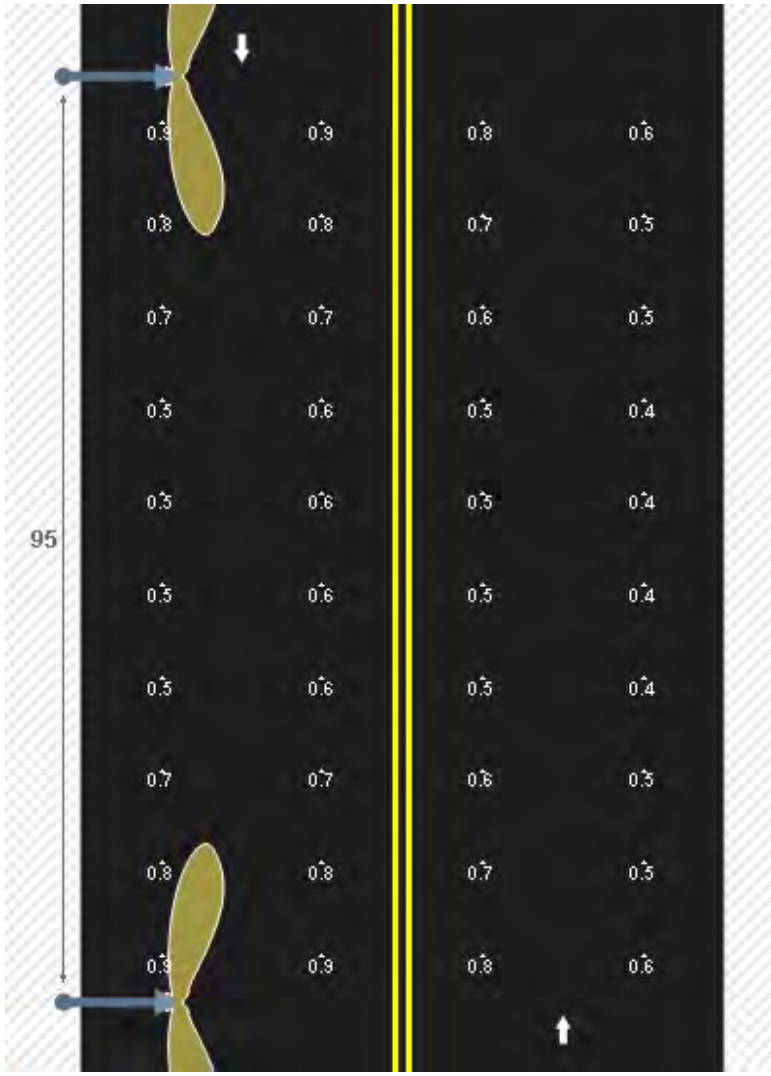
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.4	cd/m²
Max:	0.8	0.6	cd/m²
Min	0.7	0.3	cd/m²
Ave/Min:	1.1	1.4	
Max/Min:	1.2	1.9	
Lv Ratio:	0.2	0.2	
STV:	1	1.4	

Illuminance	Left	Right	
Average:	0.7	0.6	fc
Max:	1	0.8	fc
Min	0.5	0.4	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.9	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Wednesday, April 07, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

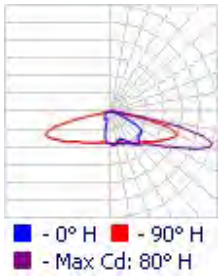
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

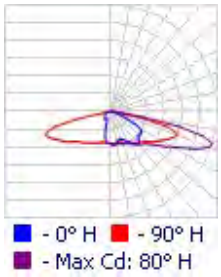
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	215.83 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	215.83 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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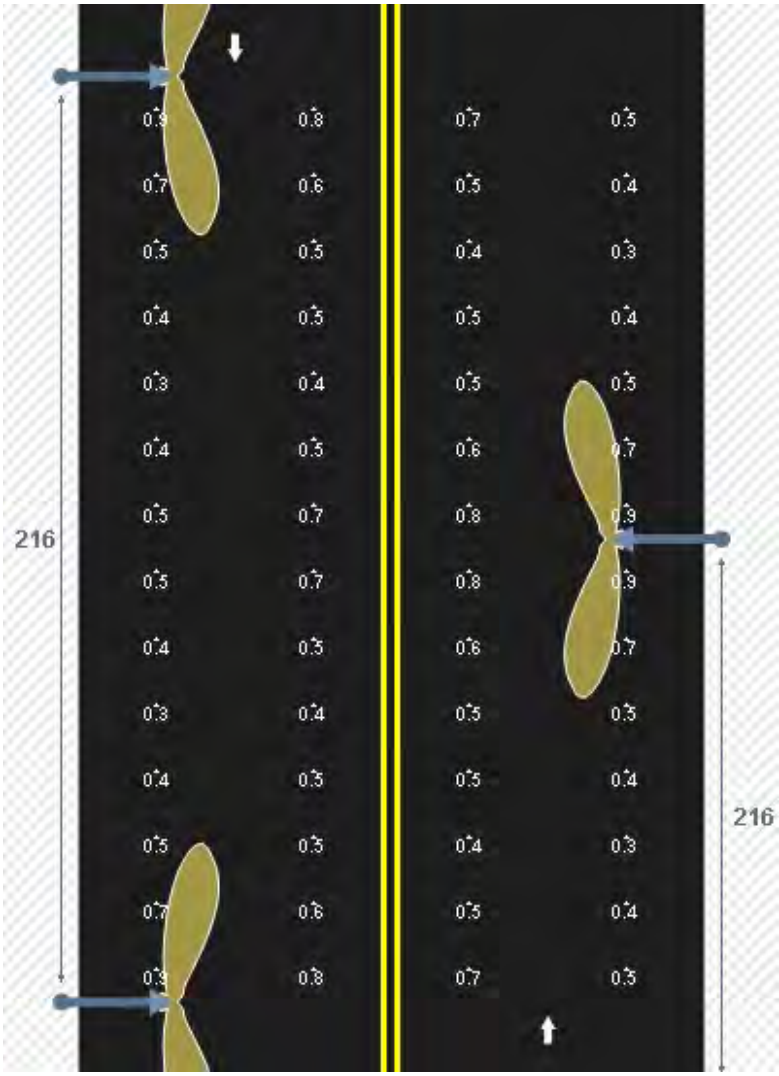
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.9	fc
Min	0.3	0.3	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

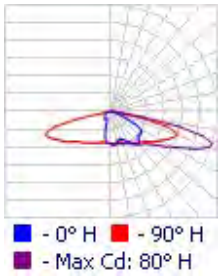
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

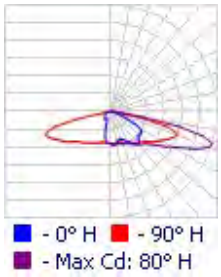
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	200.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	200.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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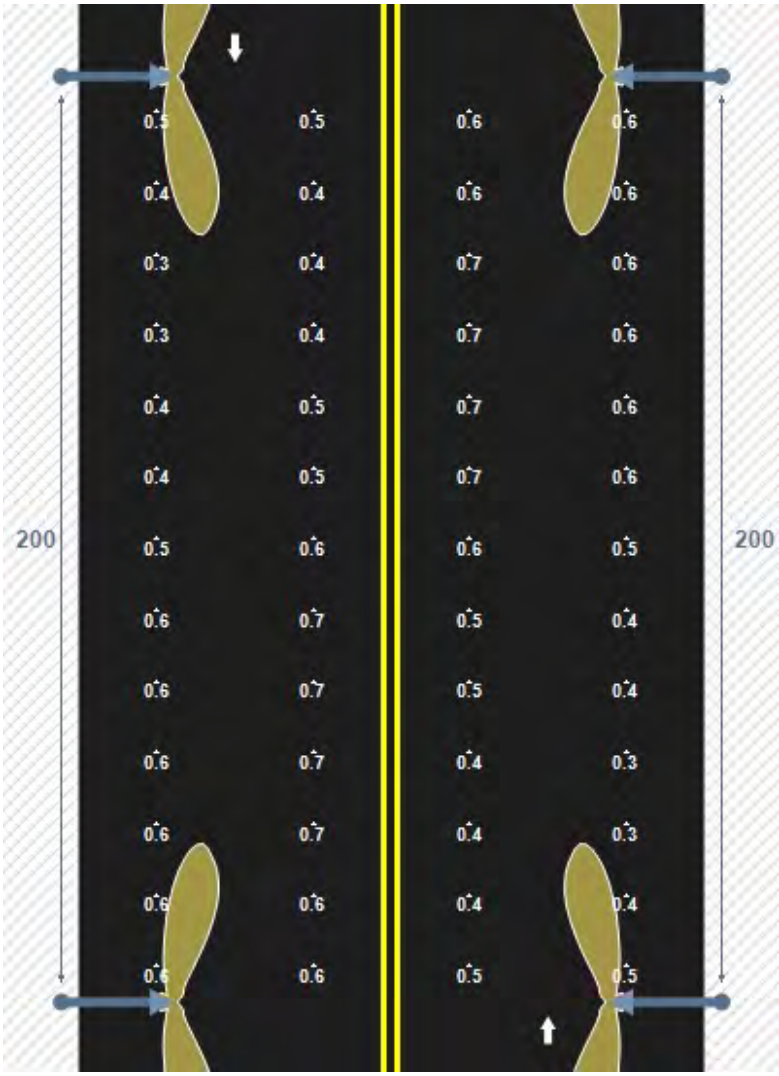
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	0.5	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.7	0.7	cd/m²	Max:	1.3	1.3	fc	Min	--	--	fc
Min	0.3	0.3	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.6	1.6		Ave/Min:	3	3		Ev Min:	--	--	fc
Max/Min:	2.2	2.2		Max/Min:	6.4	6.4		**Bikelane**			
Lv Ratio:	0.3	0.3						Average:	--	--	fc
STV:	3.1	3.1						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, May 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

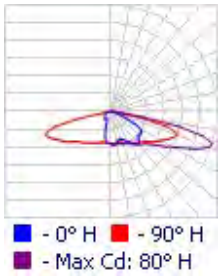
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	100.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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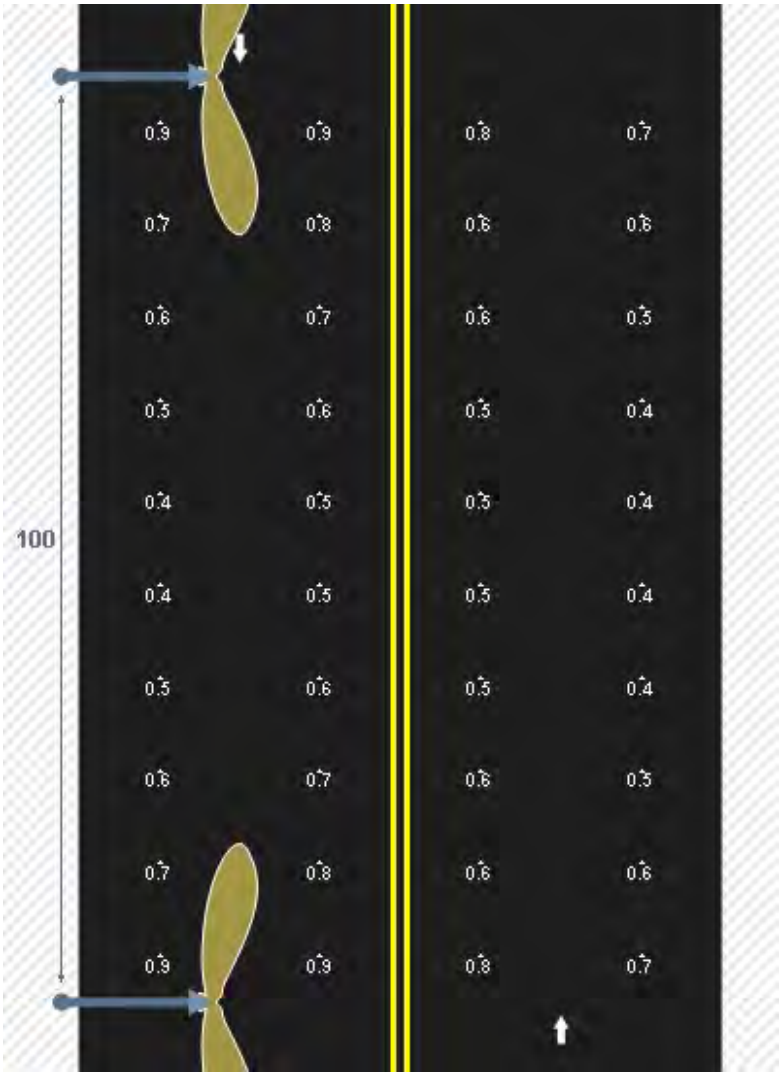
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.4	cd/m²
Max:	0.7	0.6	cd/m²
Min	0.6	0.3	cd/m²
Ave/Min:	1.2	1.4	
Max/Min:	1.3	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.1	1.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.8	fc
Min	0.4	0.4	fc
Ave/Min:	1.6	1.4	
Max/Min:	2.2	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Wednesday, April 07, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

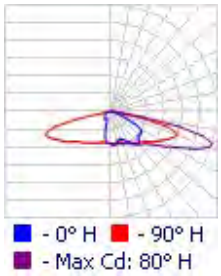
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

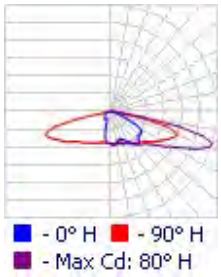
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	218.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	218.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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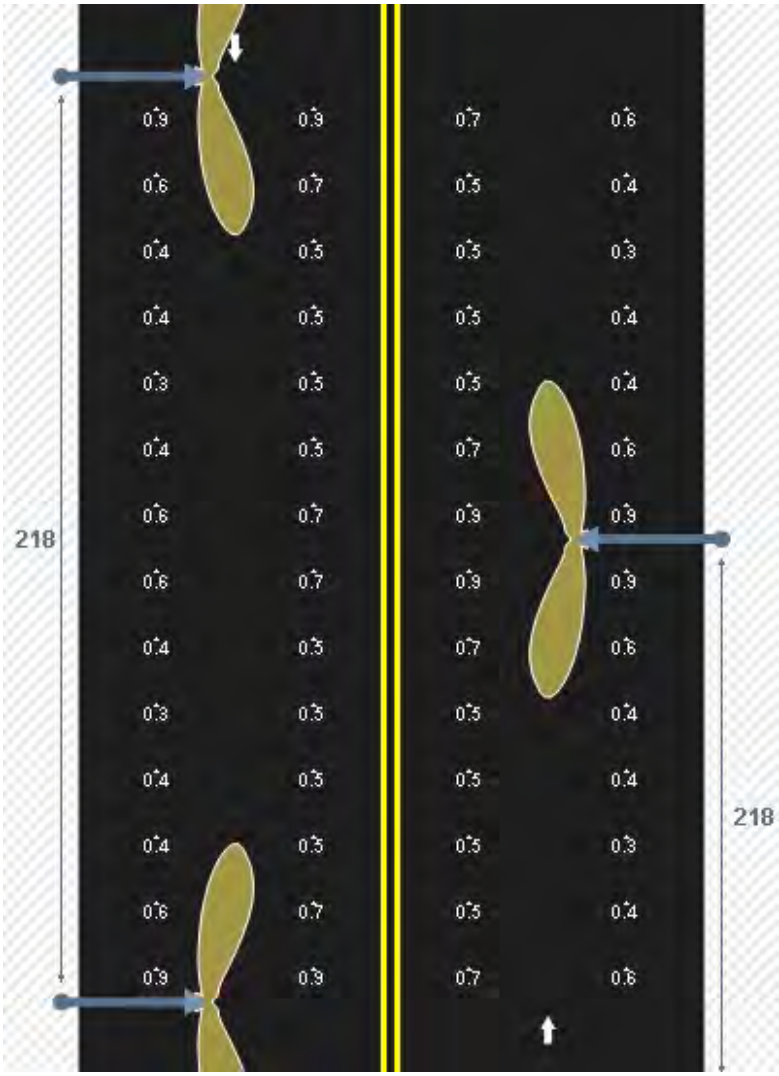
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.1	2.1	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.9	fc
Min	0.3	0.3	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

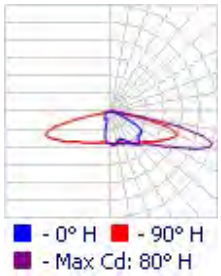
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

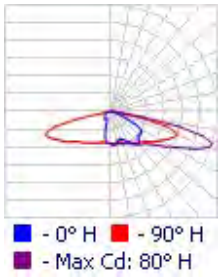
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	199.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	199.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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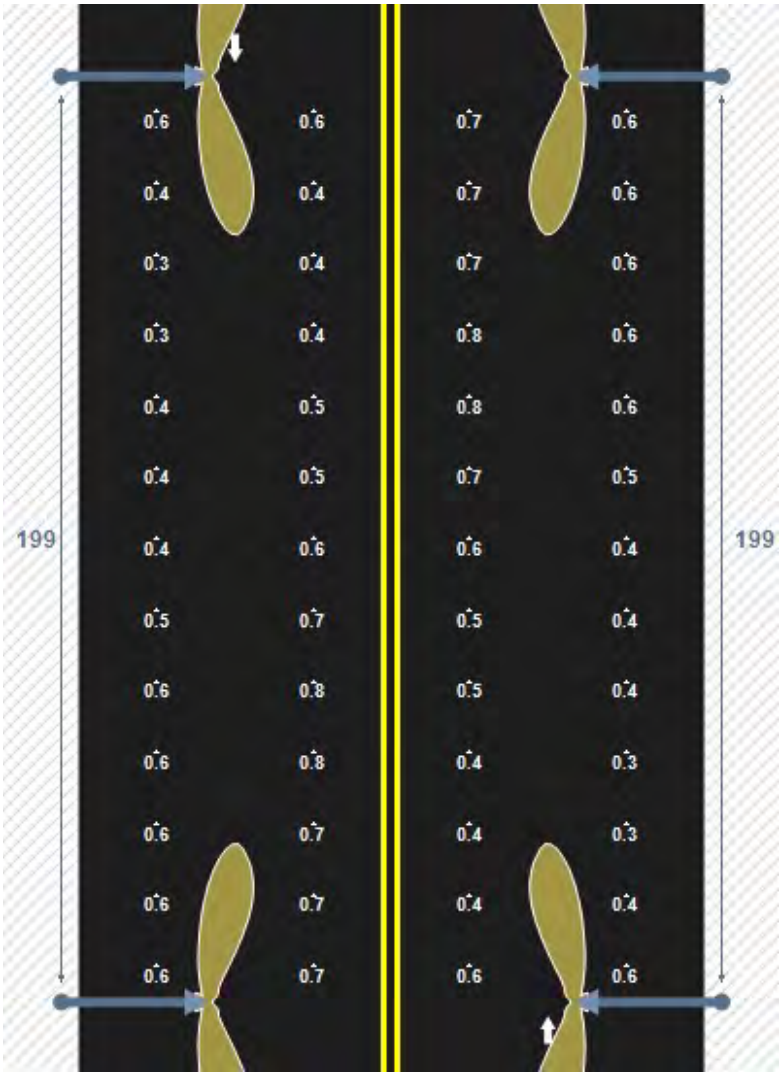
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	0.5	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.8	0.8	cd/m²	Max:	1.4	1.4	fc	Min	--	--	fc
Min	0.3	0.3	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.6	1.6		Ave/Min:	3	3		Ev Min:	--	--	fc
Max/Min:	2.4	2.4		Max/Min:	6.8	6.8		**Bikelane**			
Lv Ratio:	0.3	0.3						Average:	--	--	fc
STV:	3.1	3.1						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 27, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

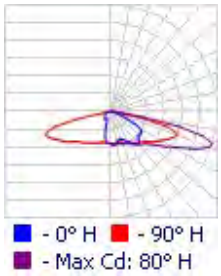
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

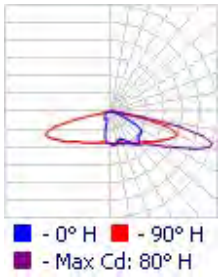
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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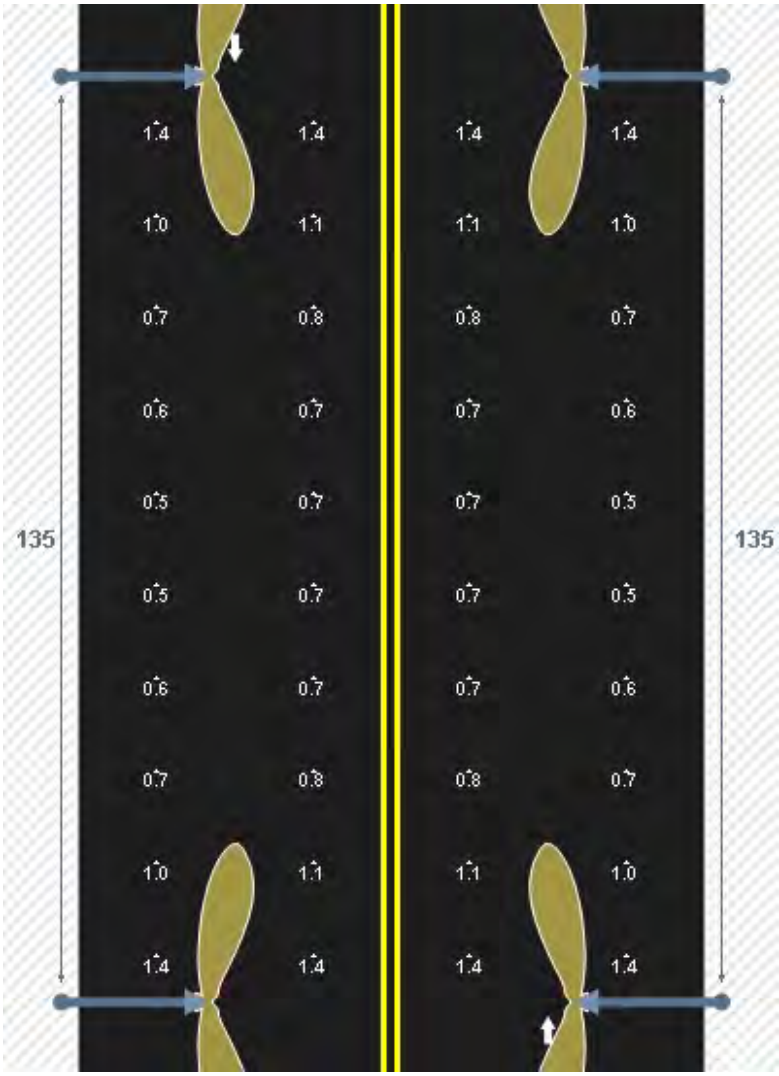
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.3	0.3	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

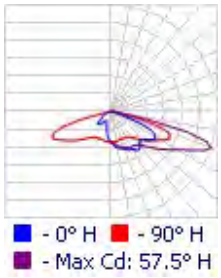
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

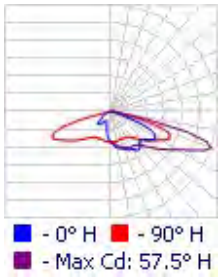
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	183.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	183.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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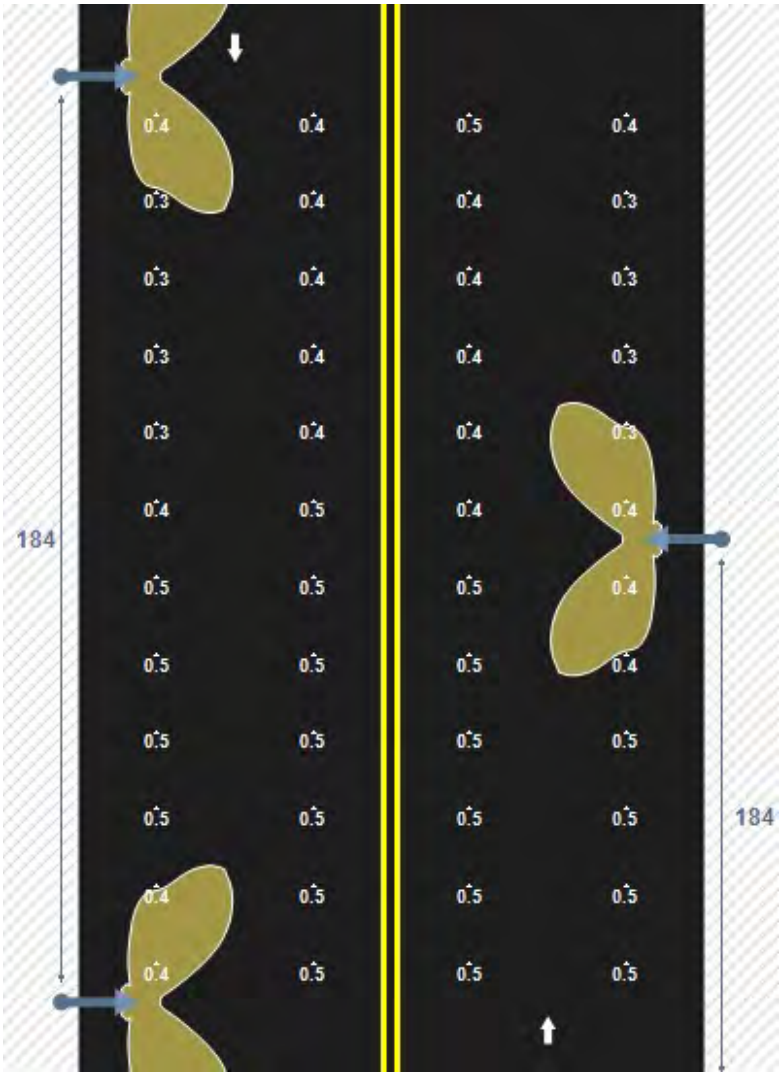

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

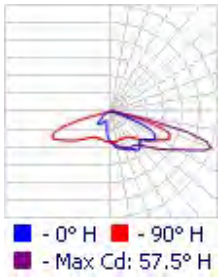
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

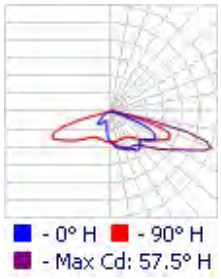
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	179.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	179.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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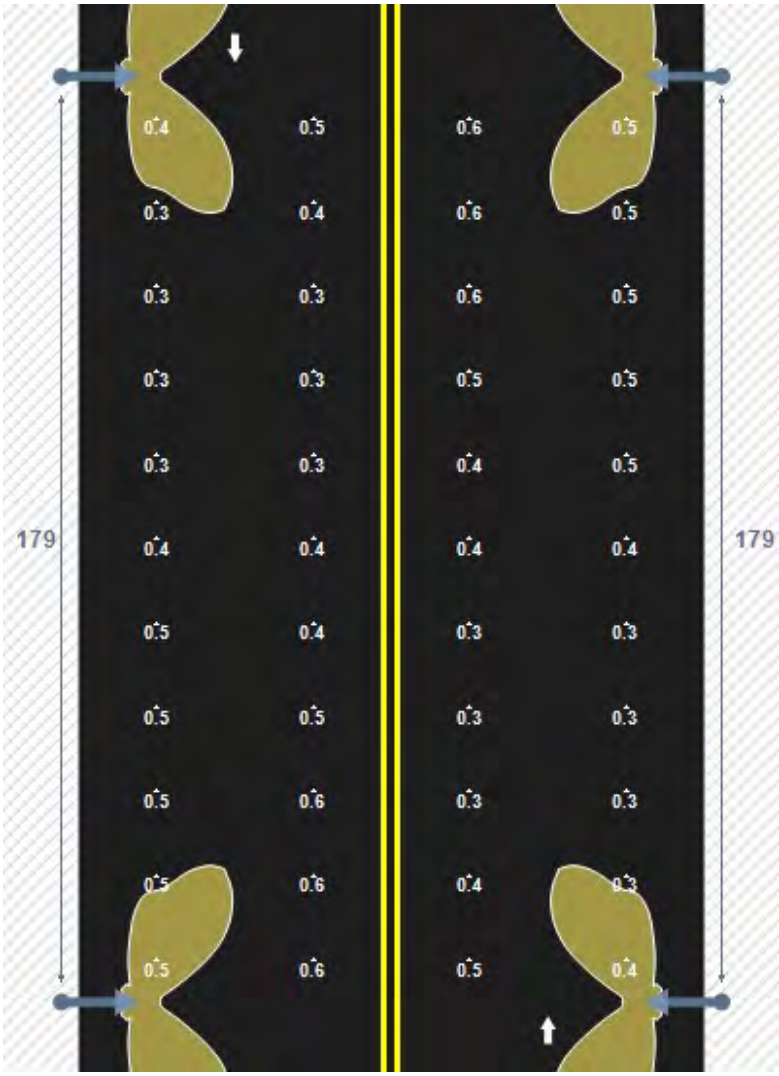

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.4	0.4	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.6	0.6	cd/m²	Max:	1.3	1.3	fc	Min	--	--	fc
Min	0.3	0.3	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.5	1.5		Ave/Min:	2.9	2.9		Ev Min:	--	--	fc
Max/Min:	2.1	2.1		Max/Min:	6.7	6.7		**Bikelane**			
Lv Ratio:	0.2	0.2						Average:	--	--	fc
STV:	3.3	3.3						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

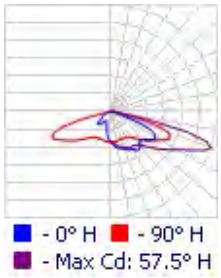
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	84.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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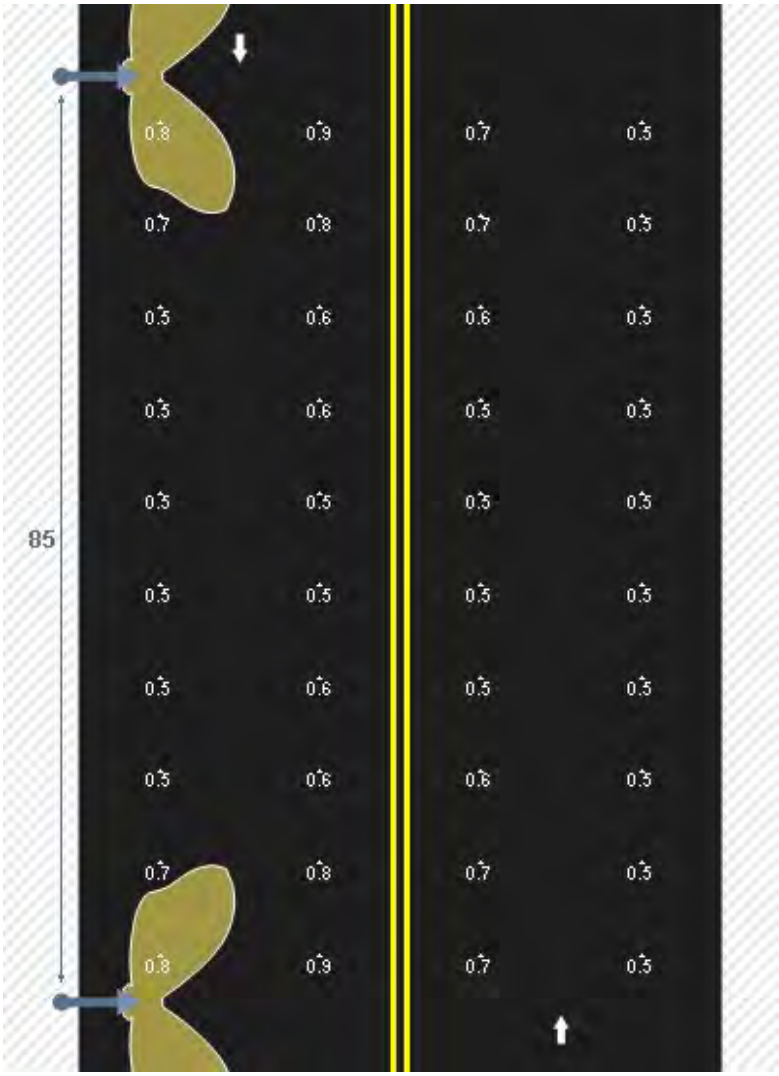

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.4	cd/m²
Max:	0.6	0.5	cd/m²
Min	0.5	0.3	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.9	1.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.7	fc
Min	0.5	0.5	fc
Ave/Min:	1.4	1.2	
Max/Min:	1.8	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 05, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

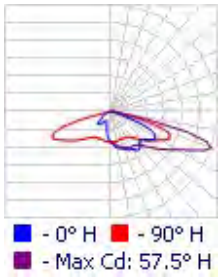
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 2	Right: 2	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

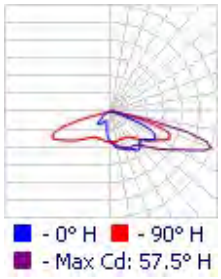
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	135.86 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	5 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	135.86 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	5 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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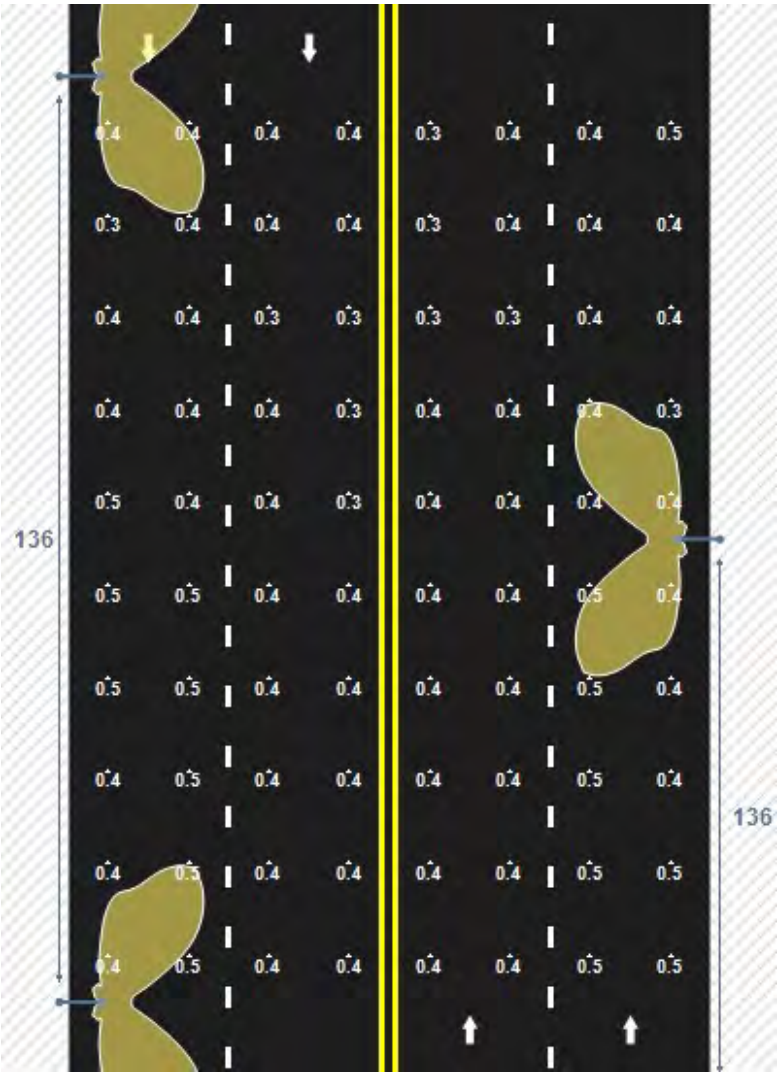
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.9	fc
Min	0.3	0.3	fc
Ave/Min:	1.9	1.9	
Max/Min:	3.1	3.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

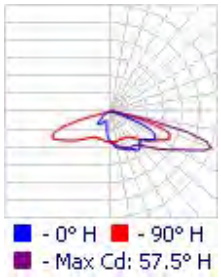
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

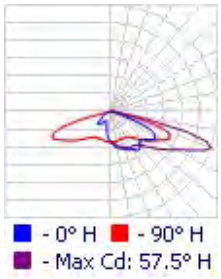
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	177.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	177.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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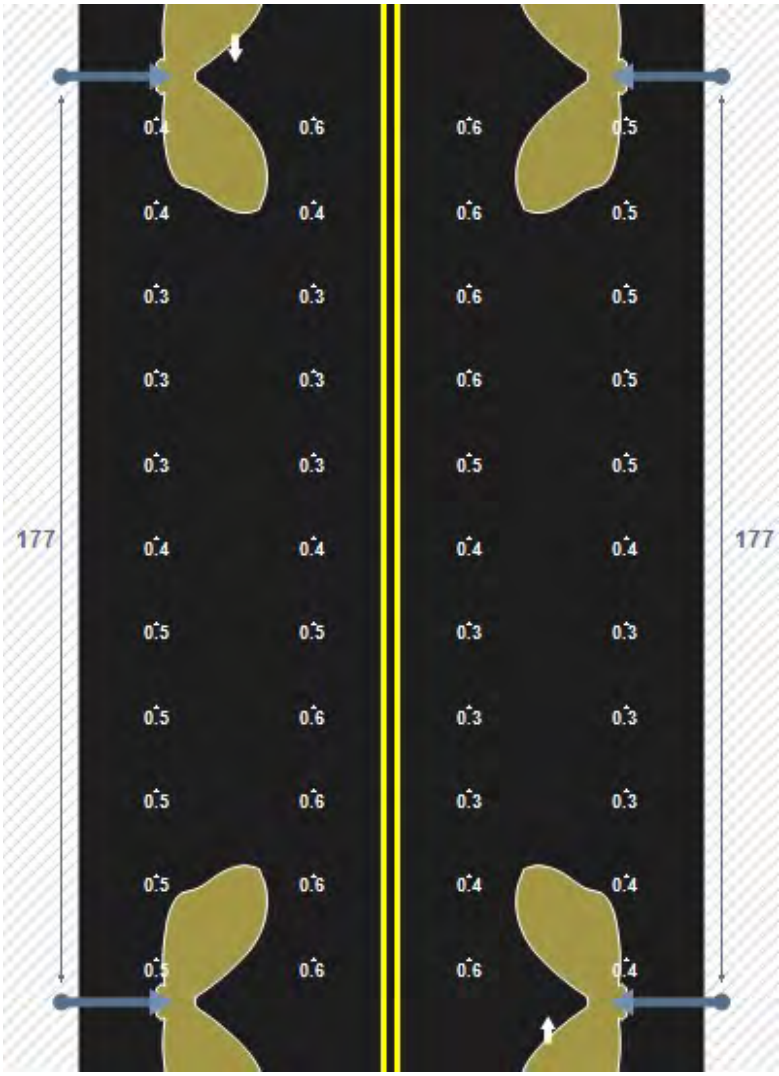
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.1	2.1	
Lv Ratio:	0.3	0.3	
STV:	3.2	3.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.3	1.3	fc
Min	0.2	0.2	fc
Ave/Min:	3	3	
Max/Min:	6.8	6.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

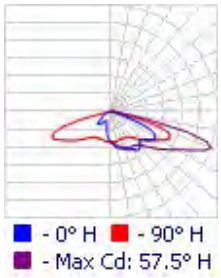
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	87.28 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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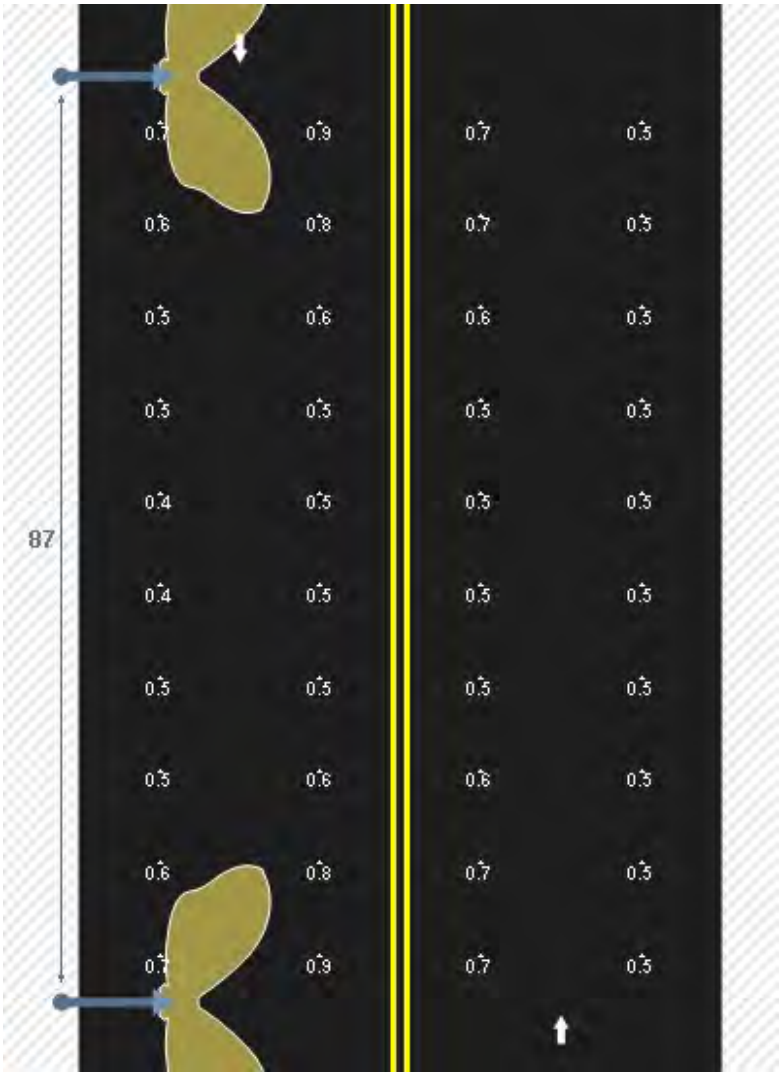

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.4	cd/m²
Max:	0.6	0.5	cd/m²
Min	0.5	0.3	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.6	
Lv Ratio:	0.1	0.2	
STV:	0.9	1.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.7	fc
Min	0.4	0.5	fc
Ave/Min:	1.4	1.2	
Max/Min:	2	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

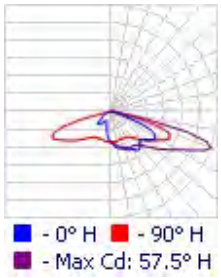
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

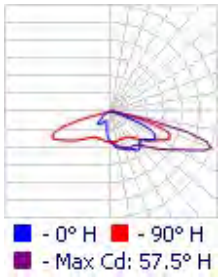
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	185.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	185.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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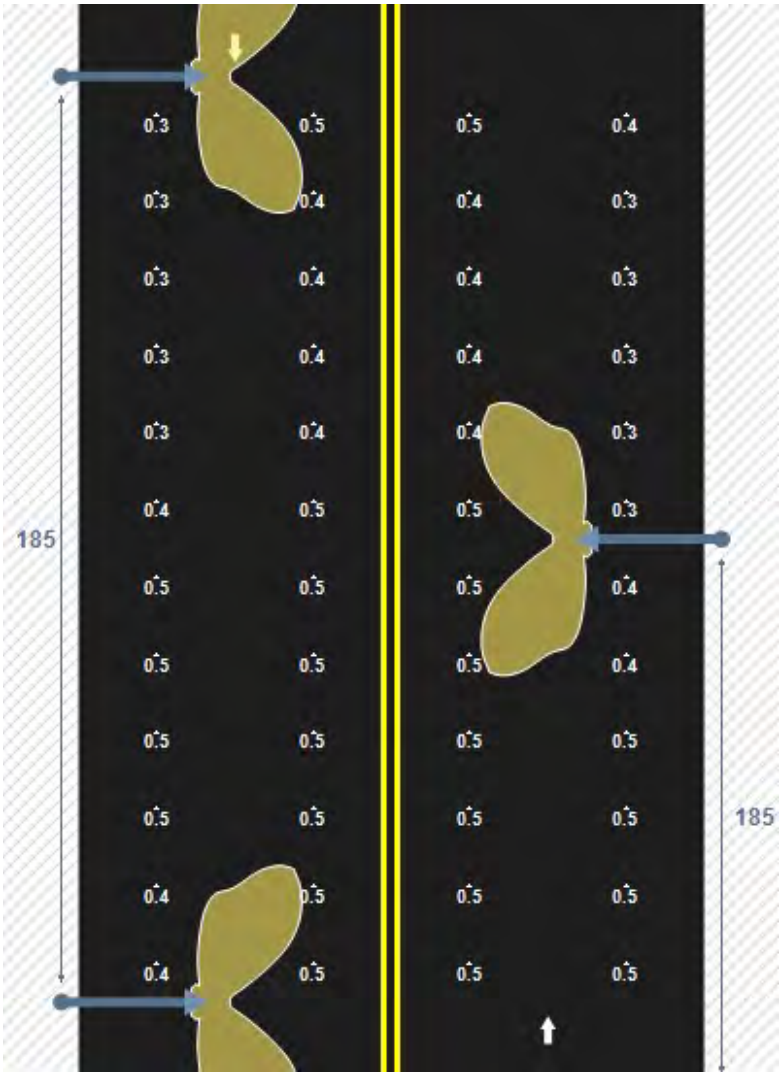

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

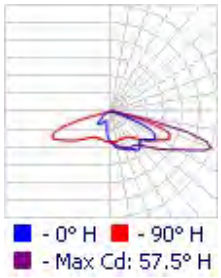
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

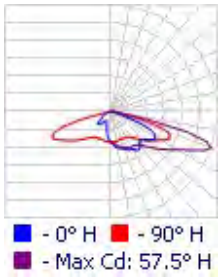
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	171.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	171.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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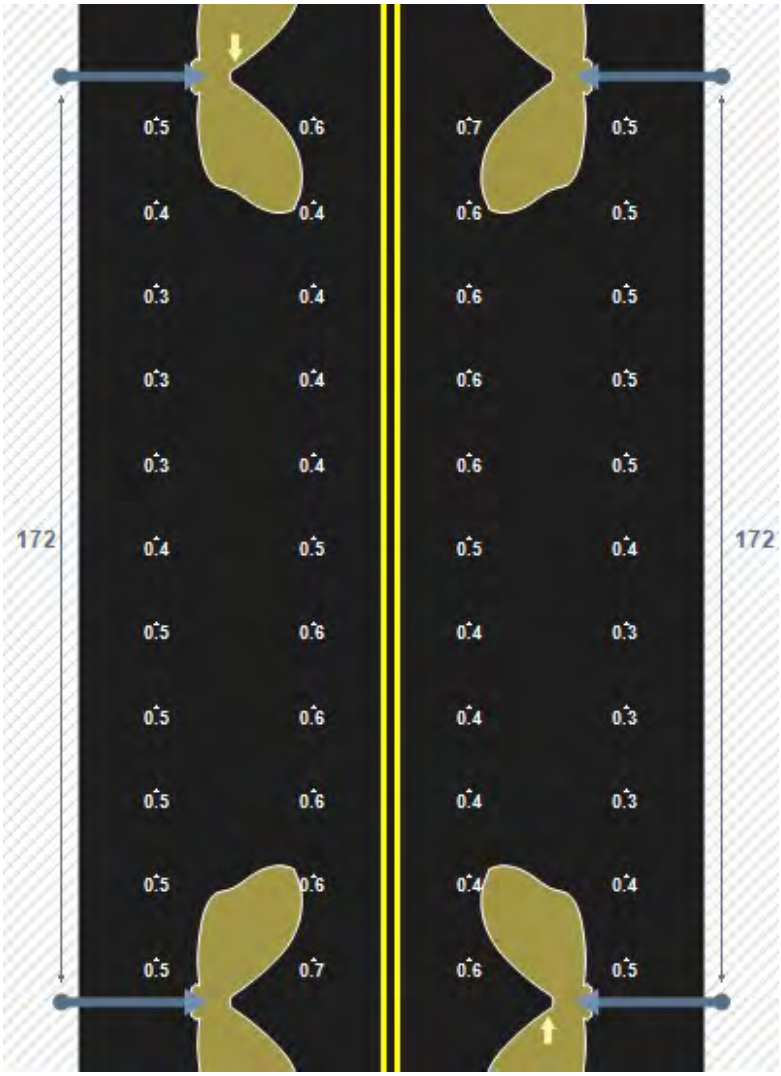

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	0.5	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.7	0.7	cd/m²	Max:	1.4	1.4	fc	Min	--	--	fc
Min	0.3	0.3	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.6	1.6		Ave/Min:	3	3		Ev Min:	--	--	fc
Max/Min:	2.2	2.2		Max/Min:	6.8	6.8		**Bikelane**			
Lv Ratio:	0.3	0.3						Average:	--	--	fc
STV:	3.1	3.1						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

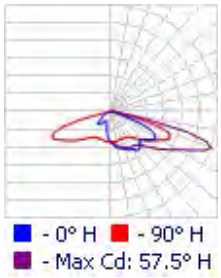
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	92.1 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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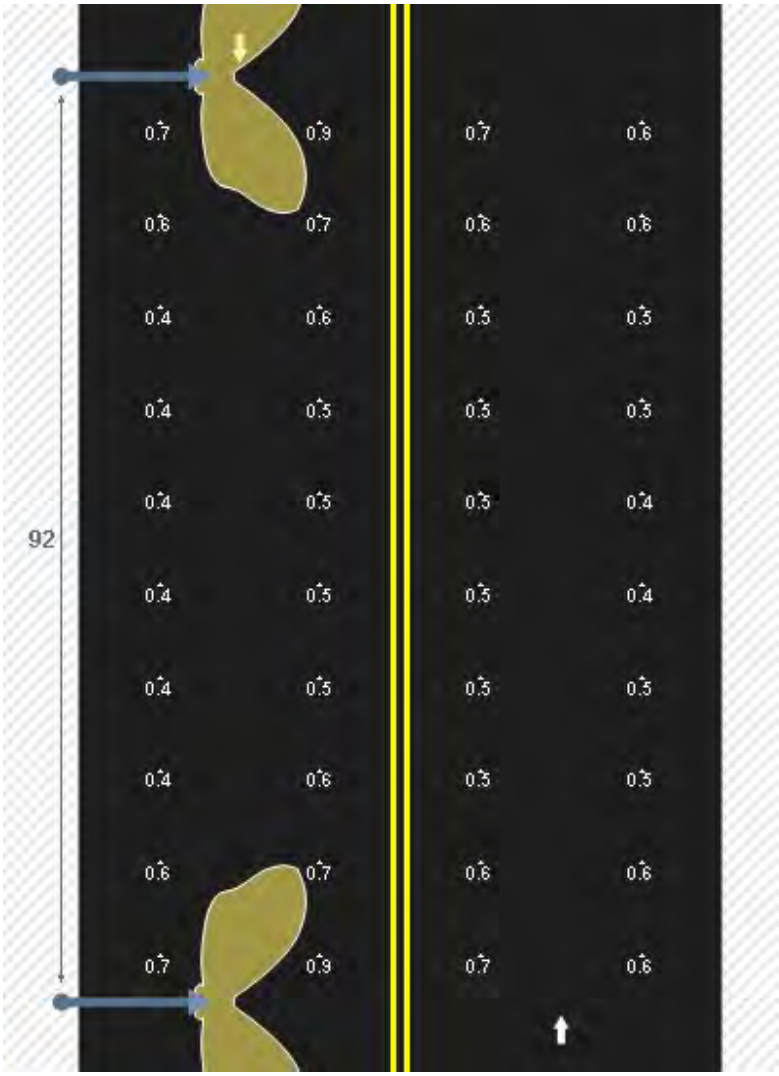

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.4	cd/m²
Max:	0.6	0.5	cd/m²
Min	0.4	0.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.6	
Lv Ratio:	0.1	0.2	
STV:	0.9	1.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.9	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.5	1.3	
Max/Min:	2.3	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

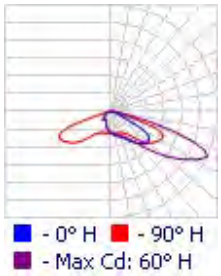
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

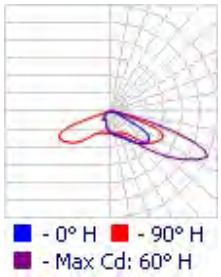
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	369.92 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	369.92 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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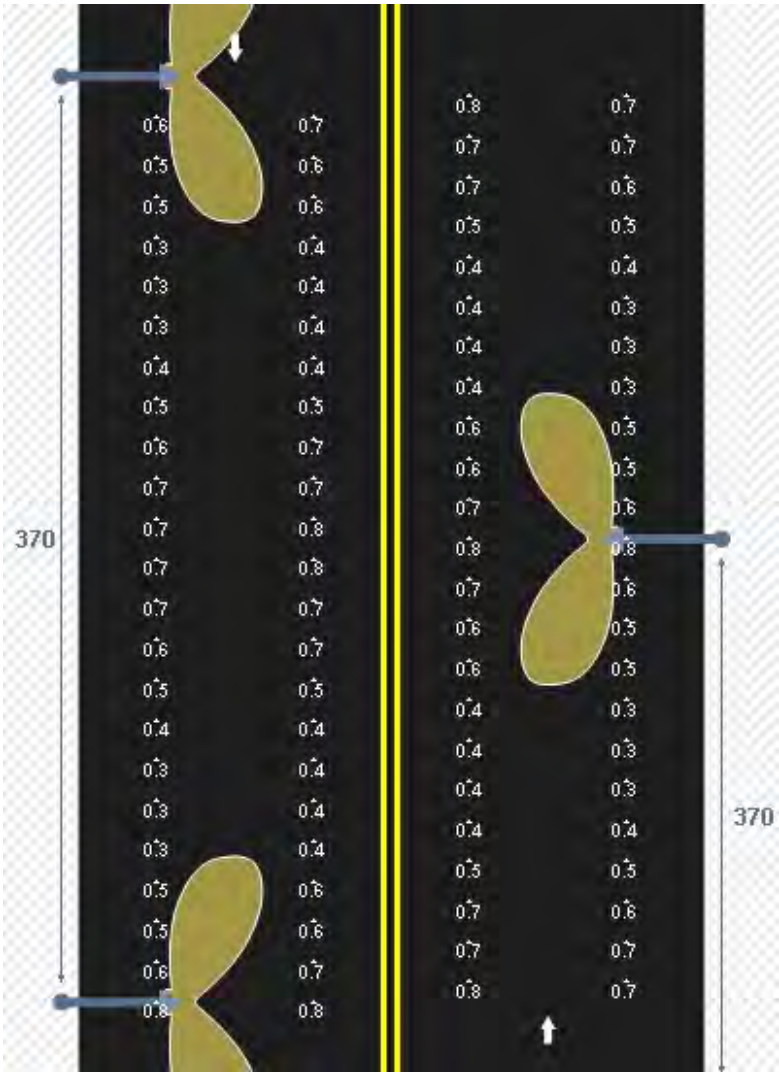

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	2.8	2.8	
Lv Ratio:	0.2	0.2	
STV:	2.5	2.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.8	1.8	
Max/Min:	2.7	2.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

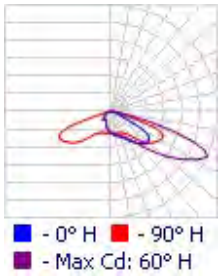
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

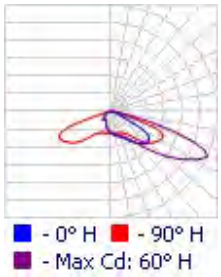
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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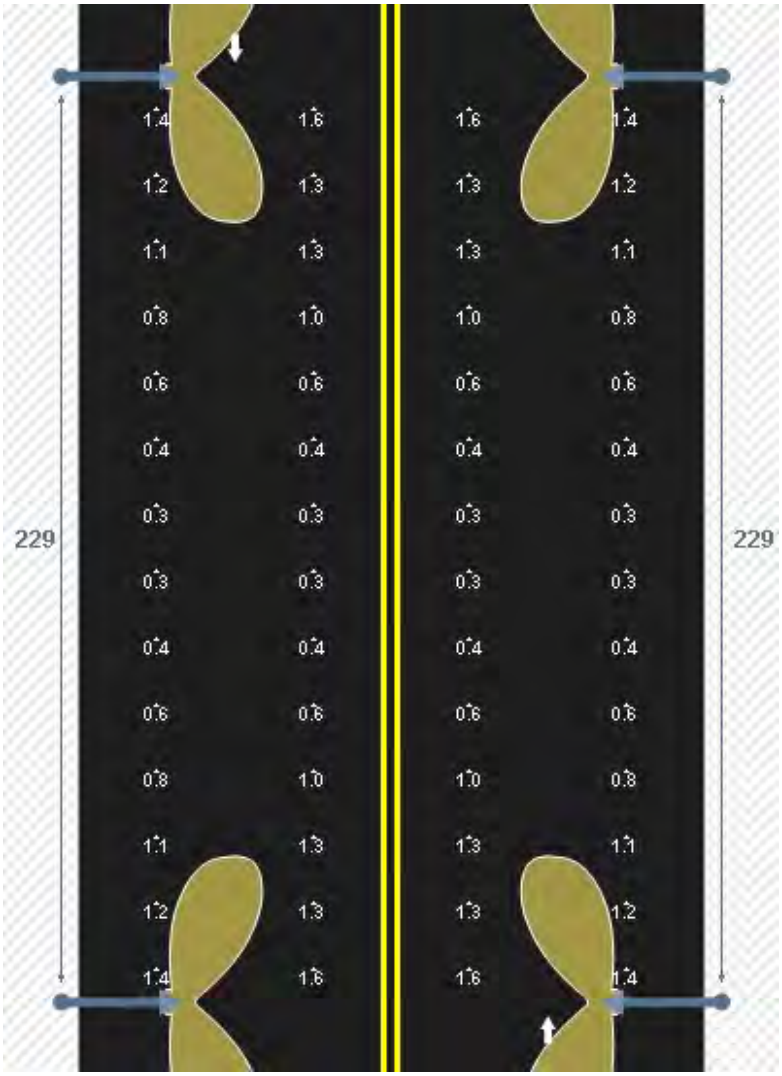

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	3	3	
Lv Ratio:	0.2	0.2	
STV:	4.5	4.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.4	5.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

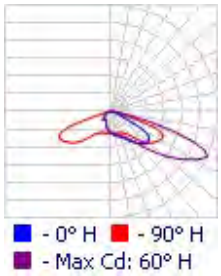
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	170.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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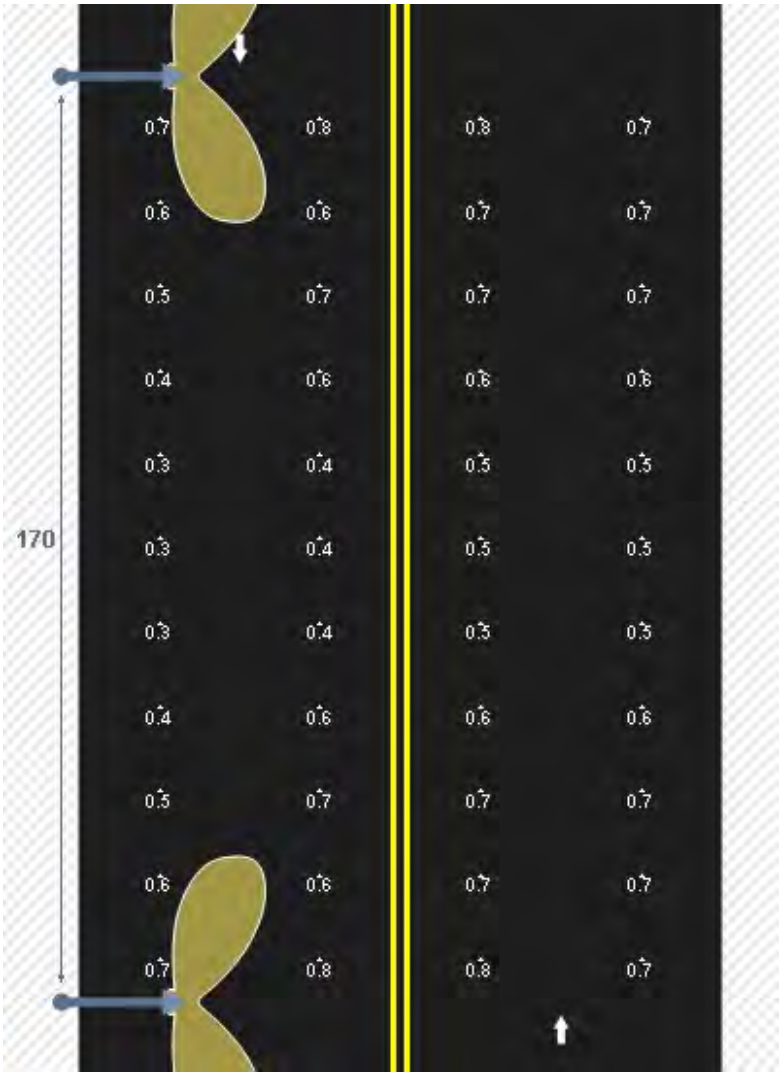

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.7	1.4	
Max/Min:	2.5	2	
Lv Ratio:	0.2	0.2	
STV:	2	2.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.5	fc
Ave/Min:	1.8	1.3	
Max/Min:	2.7	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

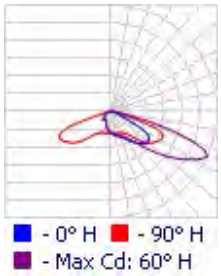
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

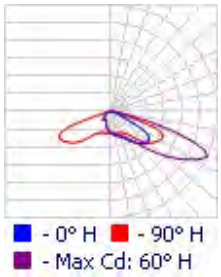
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	360.1 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	360.1 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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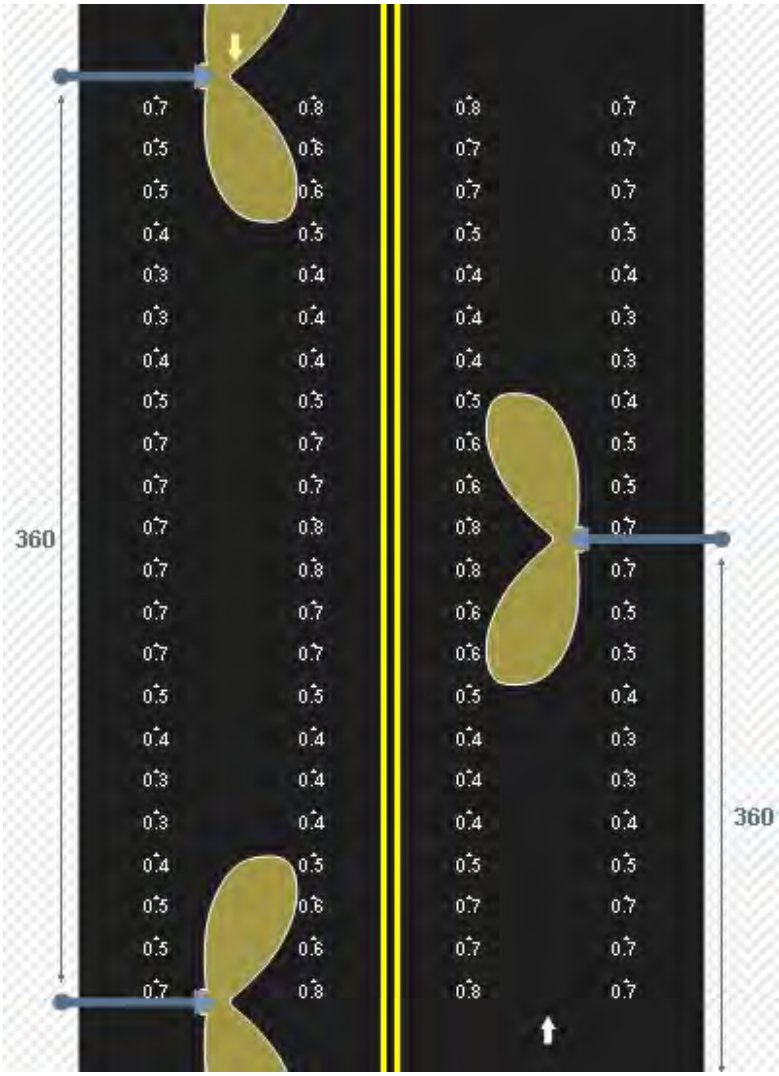

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.2	0.2	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3	3	
Lv Ratio:	0.2	0.2	
STV:	2.3	2.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.8	1.8	
Max/Min:	2.6	2.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

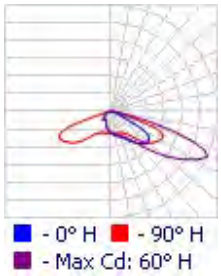
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

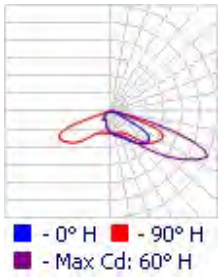
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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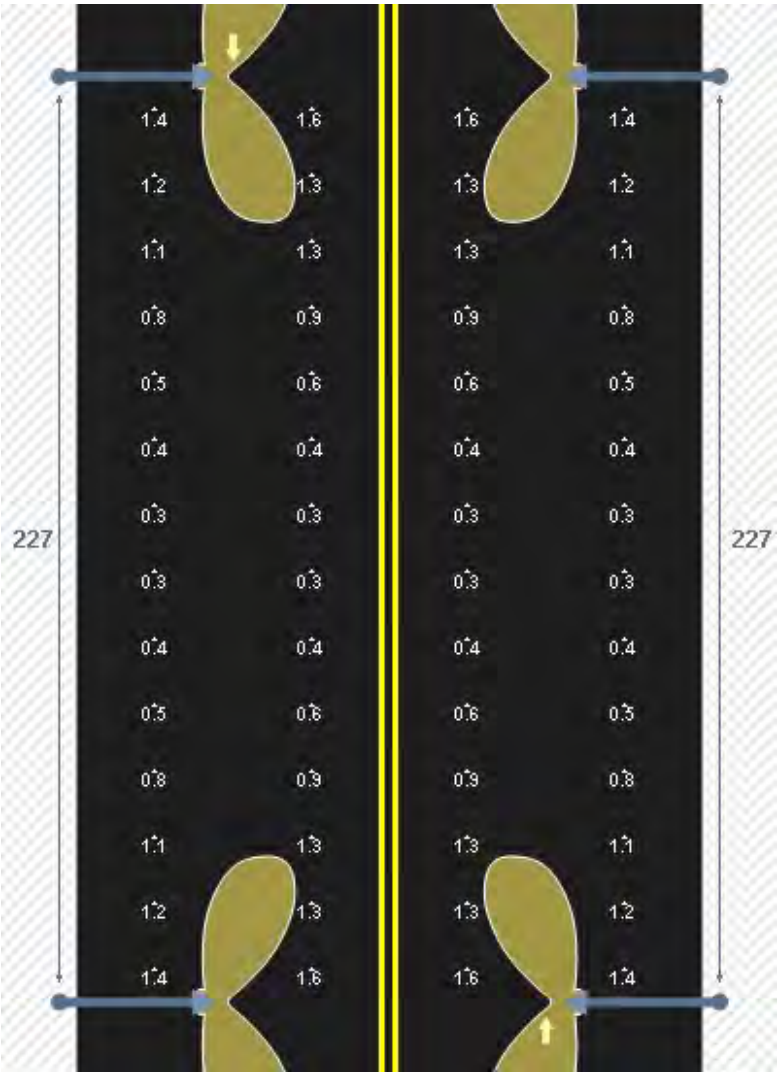

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	3	3	
Lv Ratio:	0.3	0.3	
STV:	4.4	4.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.4	5.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

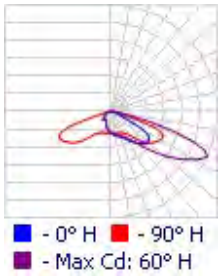
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	160.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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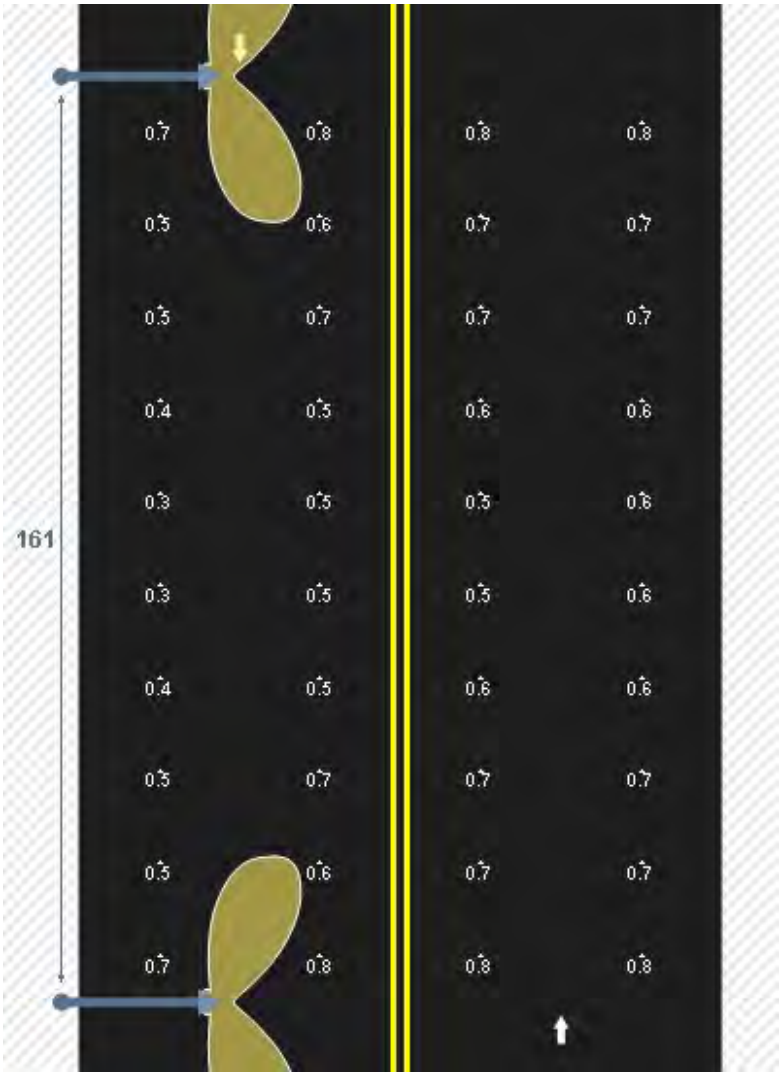

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.8	0.7	cd/m²
Min	0.3	0.4	cd/m²
Ave/Min:	1.6	1.5	
Max/Min:	2.5	2.1	
Lv Ratio:	0.2	0.2	
STV:	1.7	2.1	

Illuminance	Left	Right	
Average:	0.6	0.7	fc
Max:	0.8	0.8	fc
Min	0.3	0.6	fc
Ave/Min:	1.8	1.2	
Max/Min:	2.6	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

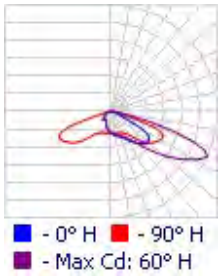
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

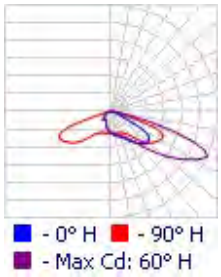
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	350.17 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	350.17 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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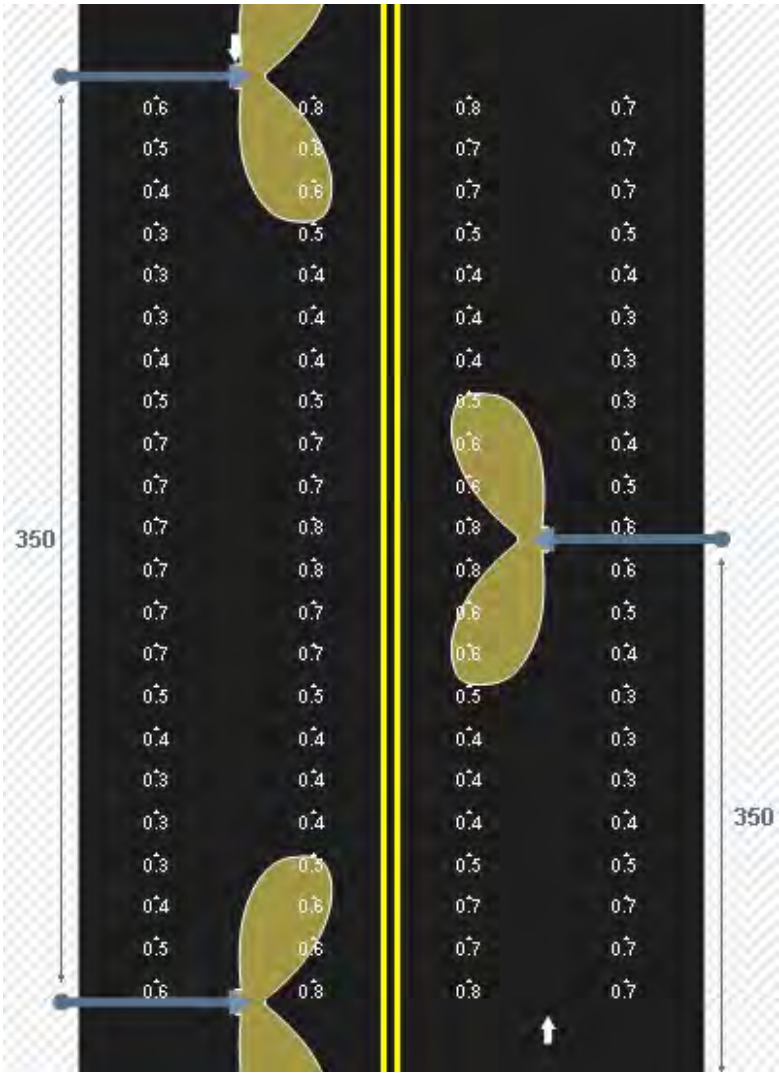

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.2	0.2	cd/m²
Ave/Min:	2	2	
Max/Min:	3.1	3.1	
Lv Ratio:	0.2	0.2	
STV:	2.2	2.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.8	1.8	
Max/Min:	2.7	2.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

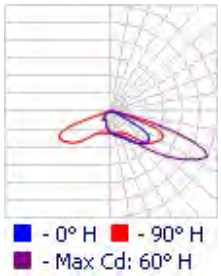
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

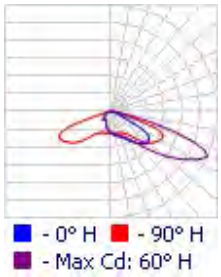
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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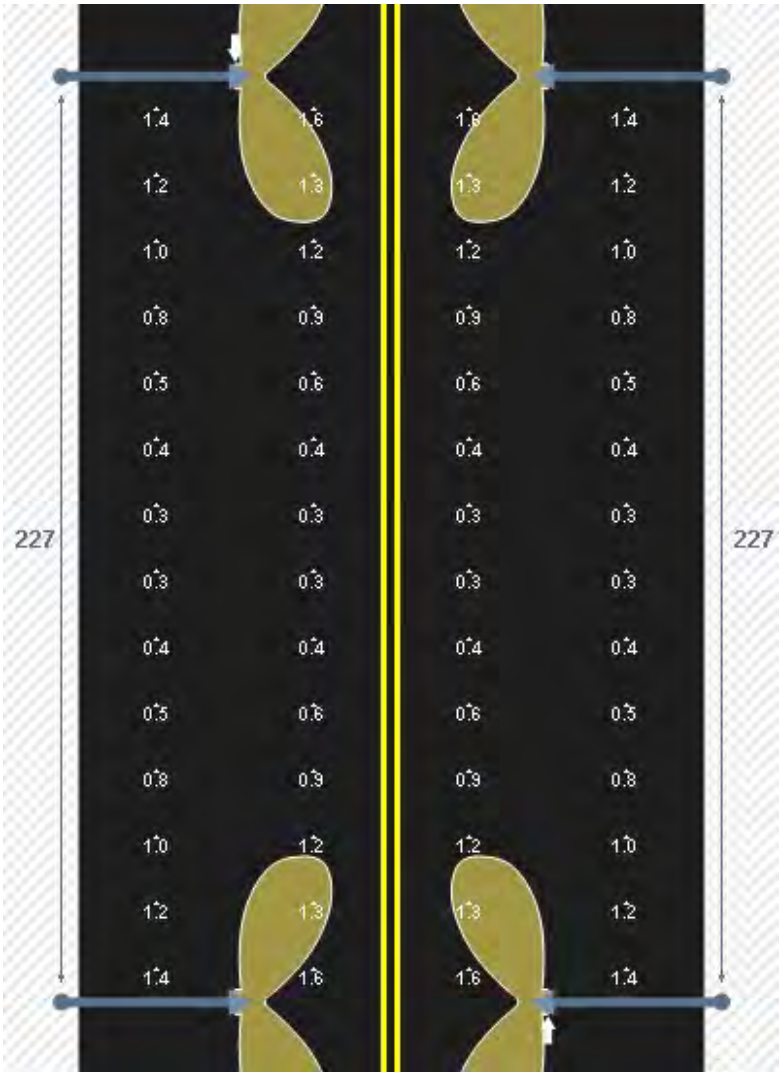

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	3.3	3.3	
Lv Ratio:	0.3	0.3	
STV:	4.3	4.3	

Illuminance	Left	Right	
Average:	0.8	0.8	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.6	5.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

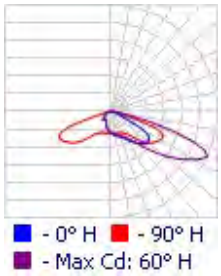
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	150.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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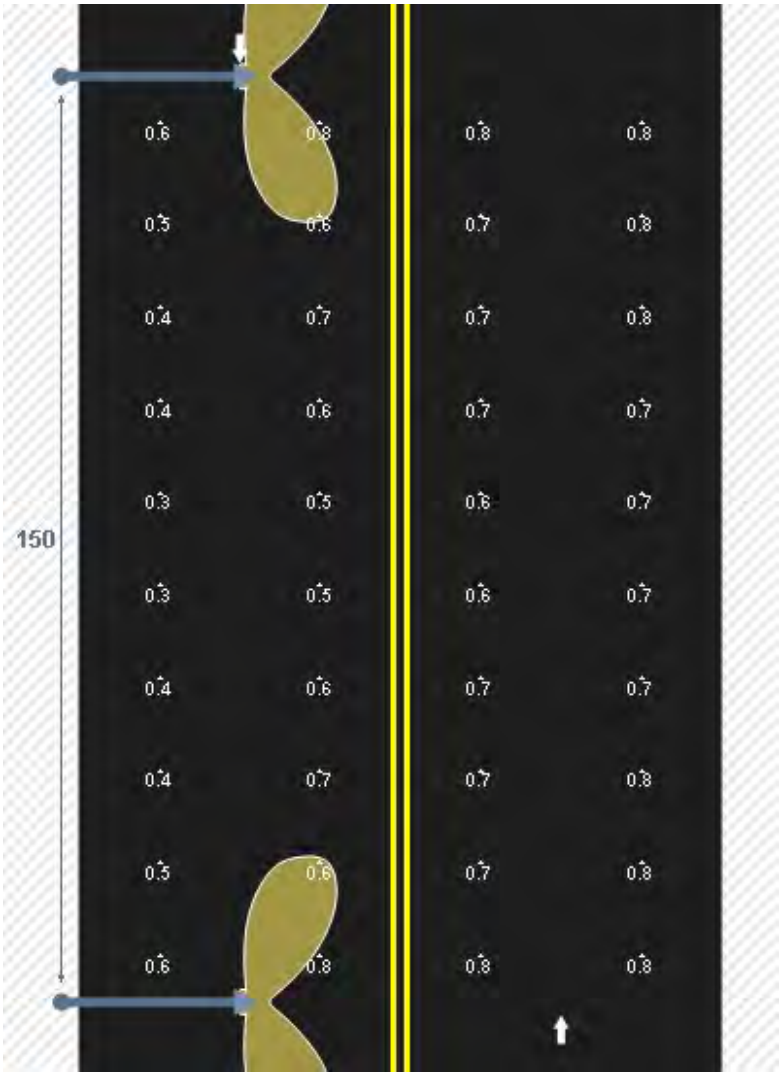

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.3	0.4	cd/m²
Ave/Min:	1.6	1.5	
Max/Min:	2.4	2.2	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.9	

Illuminance	Left	Right	
Average:	0.6	0.7	fc
Max:	0.8	0.8	fc
Min	0.3	0.6	fc
Ave/Min:	1.8	1.2	
Max/Min:	2.5	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

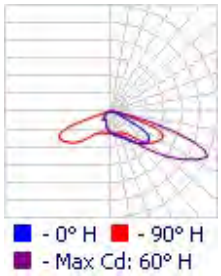
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

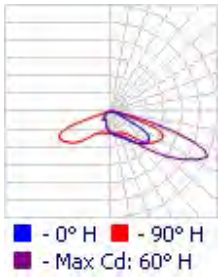
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	336.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	336.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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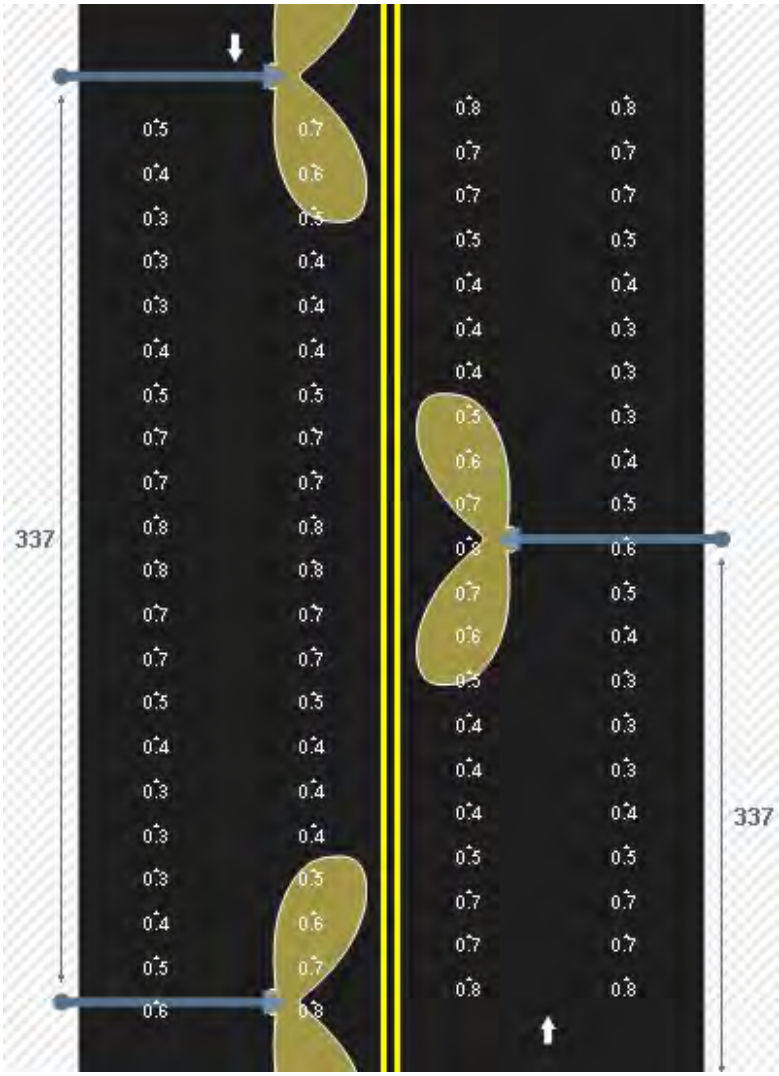

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.2	0.2	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3	3	
Lv Ratio:	0.2	0.2	
STV:	2.1	2.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.8	1.8	
Max/Min:	2.7	2.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

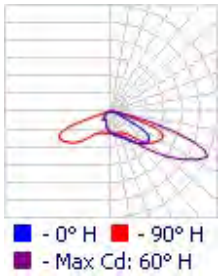
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

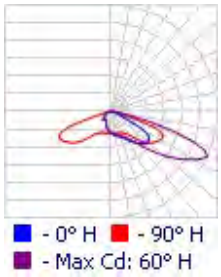
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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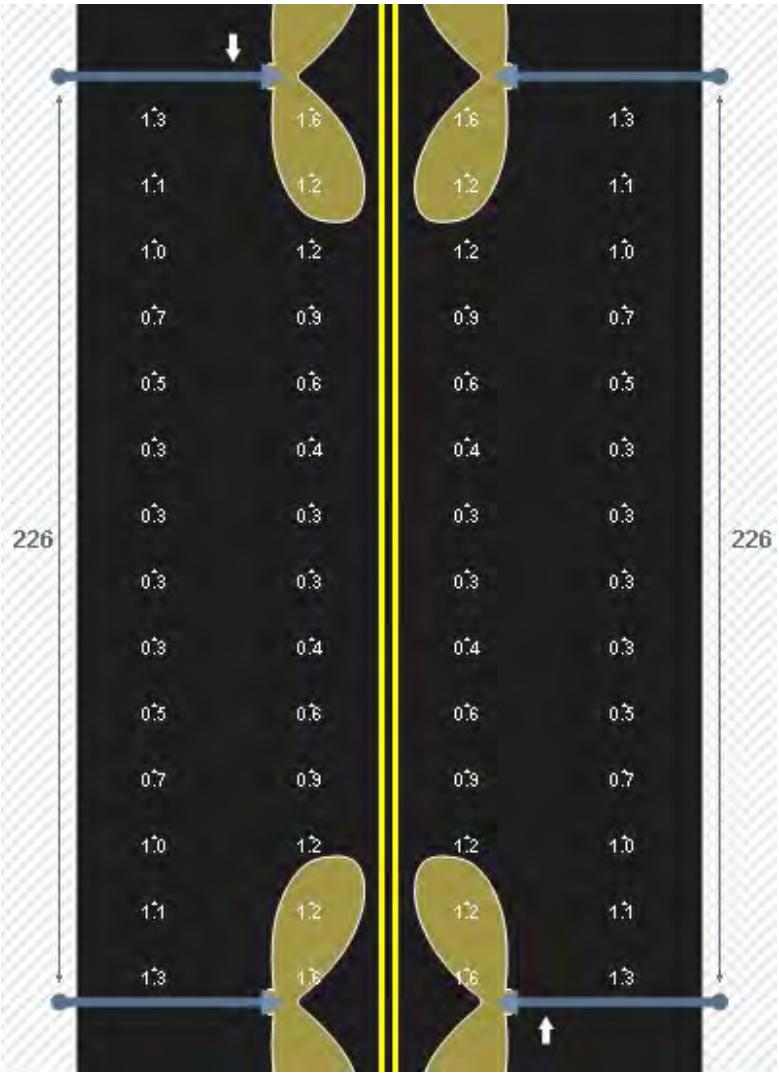

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3.5	3.5	
Lv Ratio:	0.2	0.2	
STV:	4.2	4.2	

Illuminance	Left	Right	
Average:	0.8	0.8	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.8	5.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

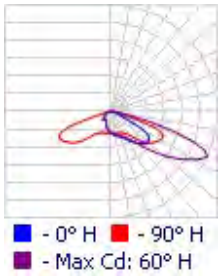
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	138.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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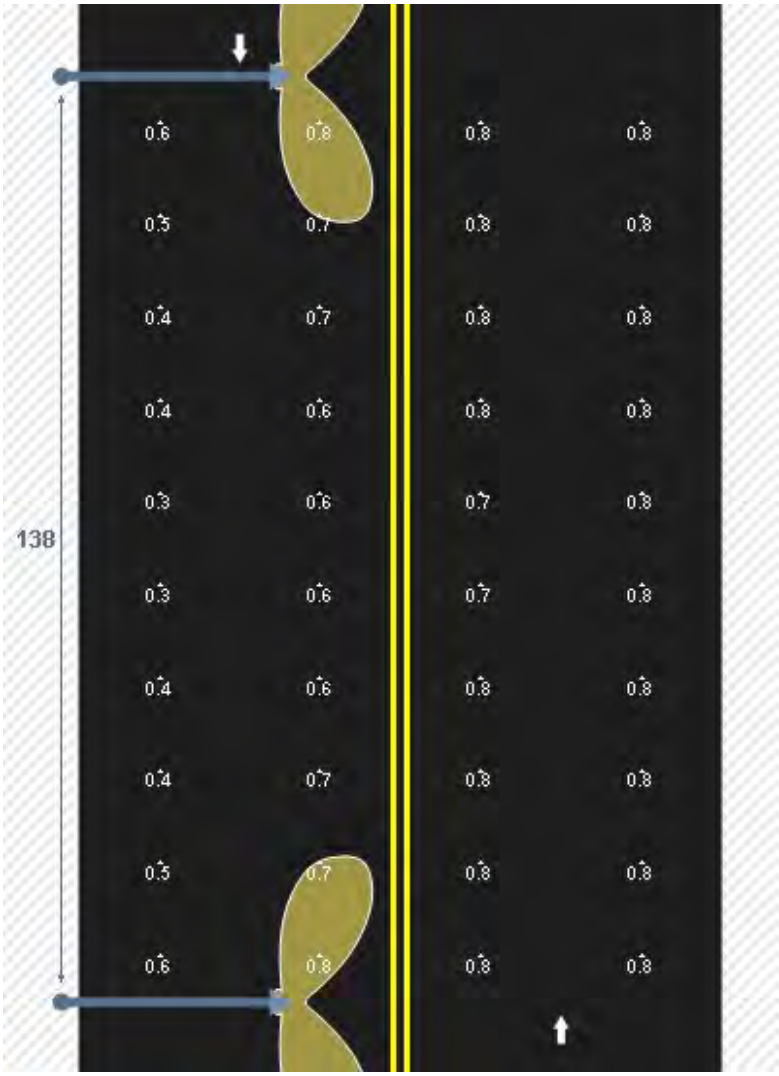

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.6	cd/m²
Max:	0.8	0.9	cd/m²
Min	0.3	0.4	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.4	2	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.6	

Illuminance	Left	Right	
Average:	0.6	0.8	fc
Max:	0.8	0.8	fc
Min	0.3	0.7	fc
Ave/Min:	1.9	1.1	
Max/Min:	2.8	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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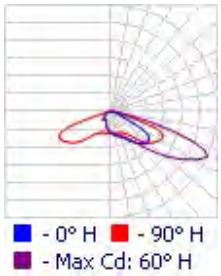
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

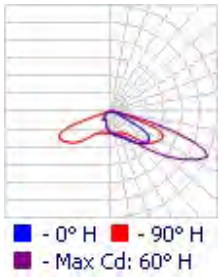
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	314.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	314.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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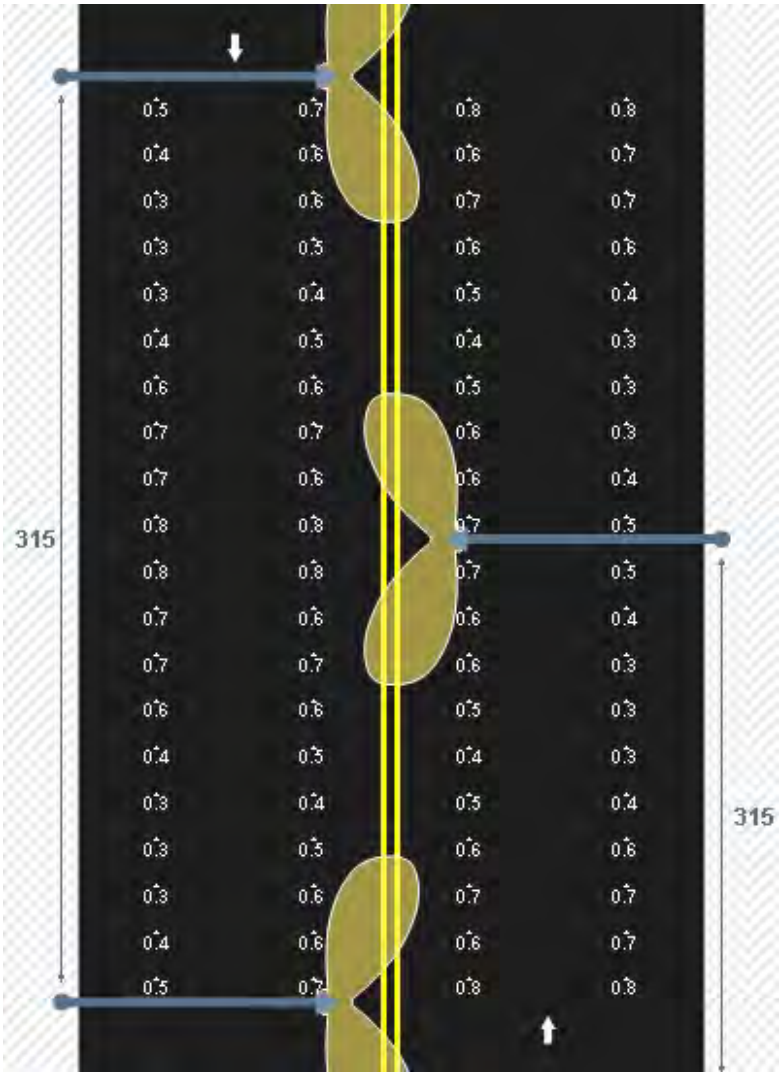

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3	3	
Lv Ratio:	0.2	0.2	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.9	1.9	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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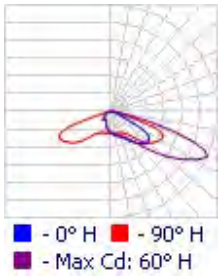
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

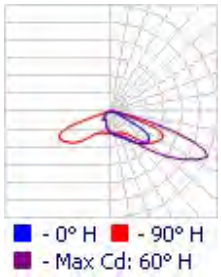
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	225.86 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	225.86 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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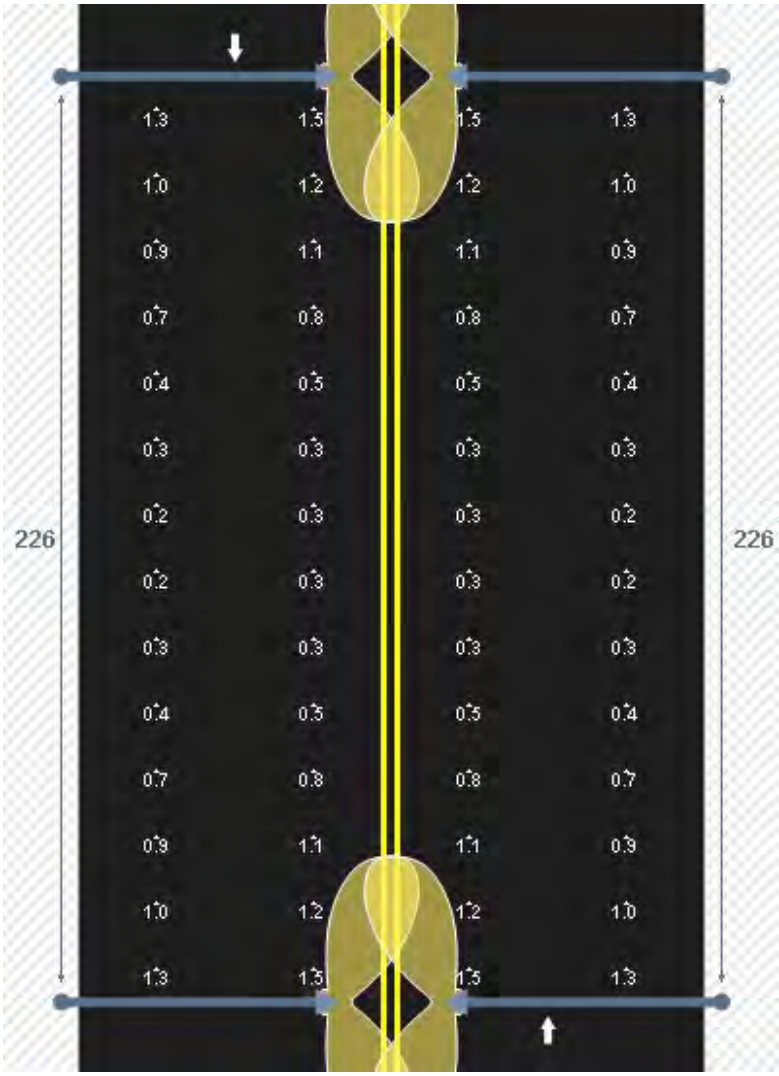

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3.5	3.5	
Lv Ratio:	0.2	0.2	
STV:	4	4	

Illuminance	Left	Right	
Average:	0.8	0.8	fc
Max:	1.5	1.5	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	6.1	6.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

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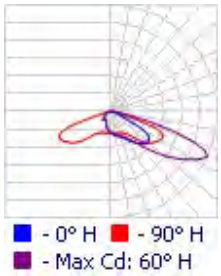
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	118.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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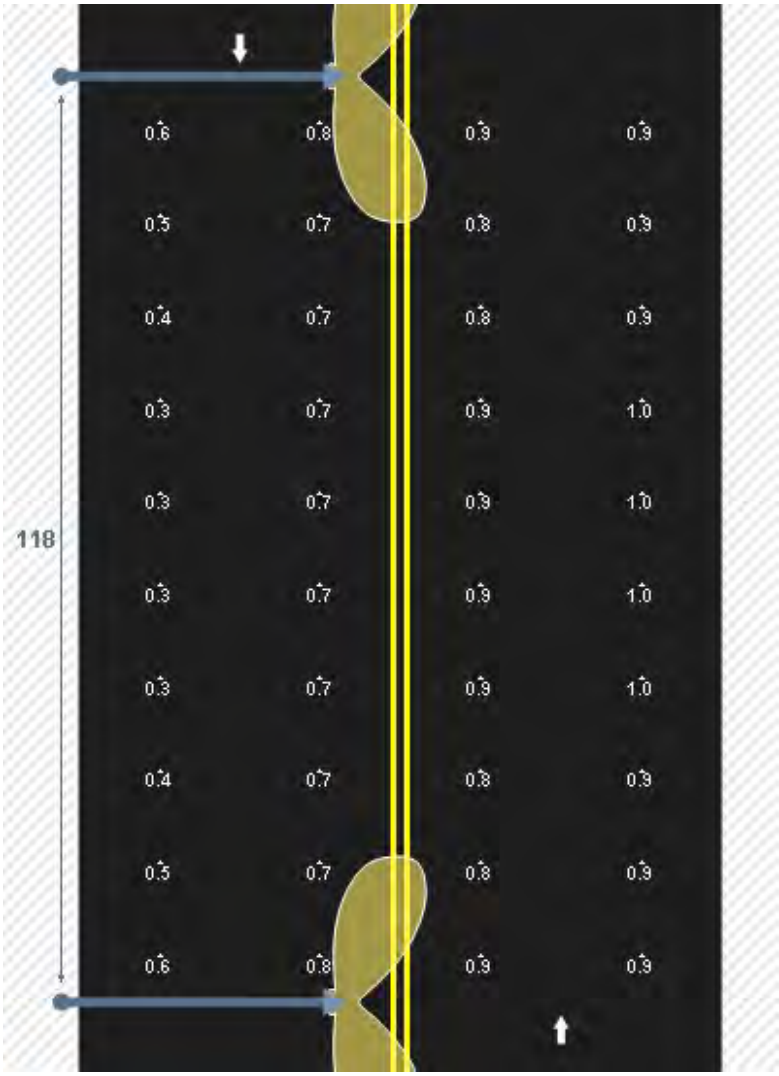

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.8	cd/m²
Max:	0.8	1	cd/m²
Min	0.3	0.6	cd/m²
Ave/Min:	1.7	1.3	
Max/Min:	2.7	1.7	
Lv Ratio:	0.2	0.1	
STV:	1	1.3	

Illuminance	Left	Right	
Average:	0.6	0.9	fc
Max:	0.8	1	fc
Min	0.3	0.8	fc
Ave/Min:	2	1.1	
Max/Min:	2.9	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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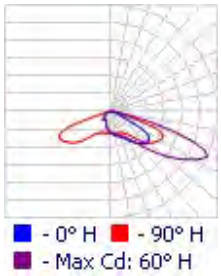
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

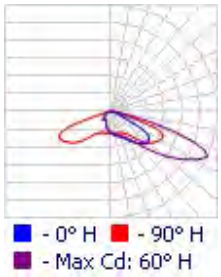
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	367.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	367.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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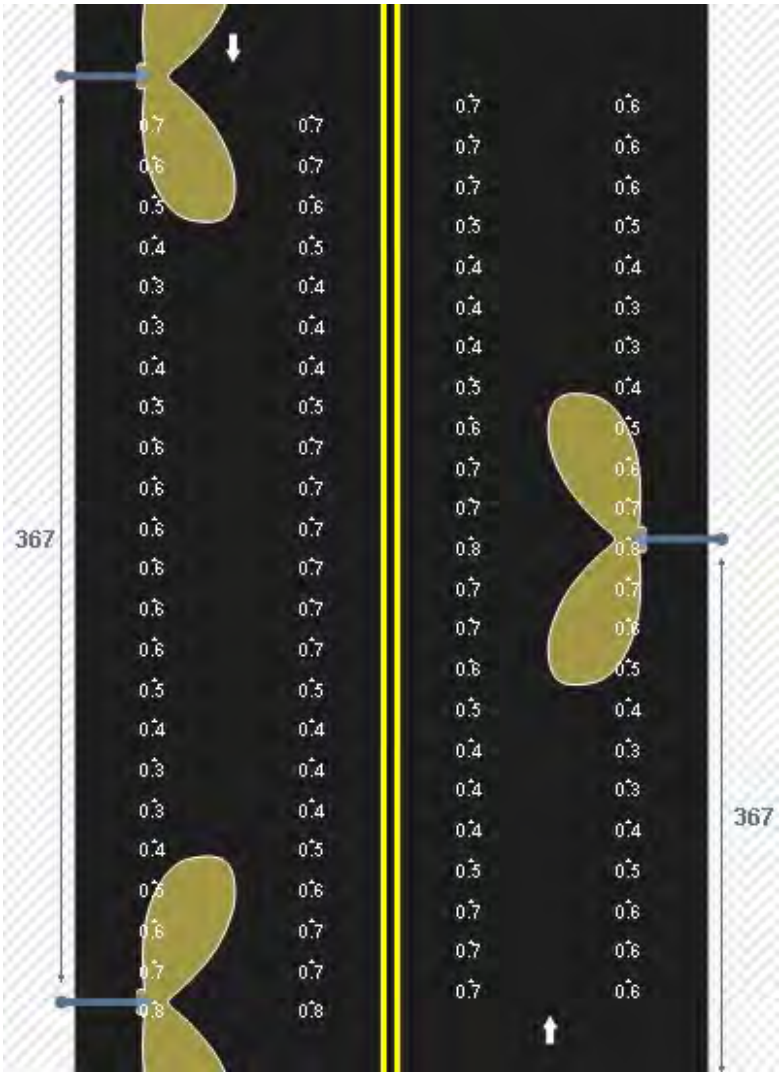

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.6	2.6	
Lv Ratio:	0.2	0.2	
STV:	2.5	2.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.5	2.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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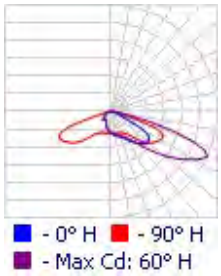
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

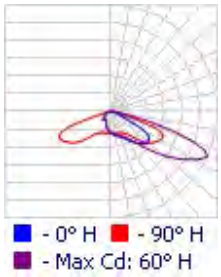
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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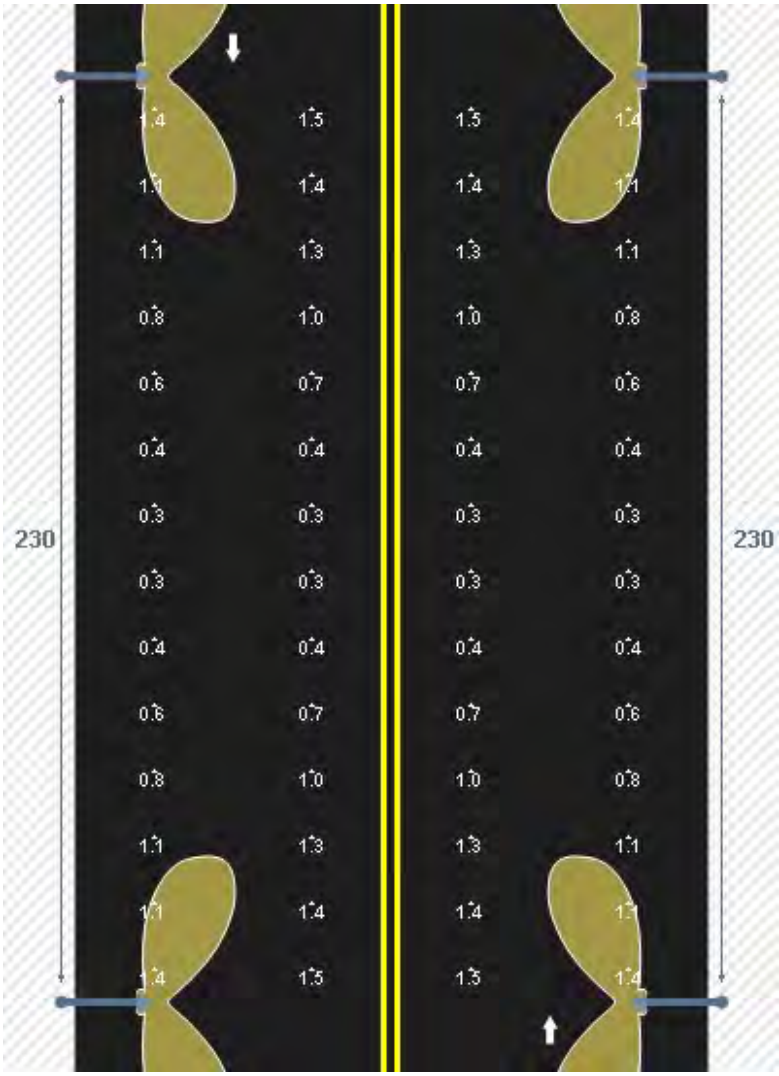

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.7	2.7	
Lv Ratio:	0.3	0.3	
STV:	4.5	4.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.3	5.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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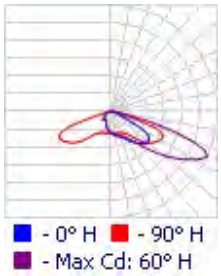
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	178.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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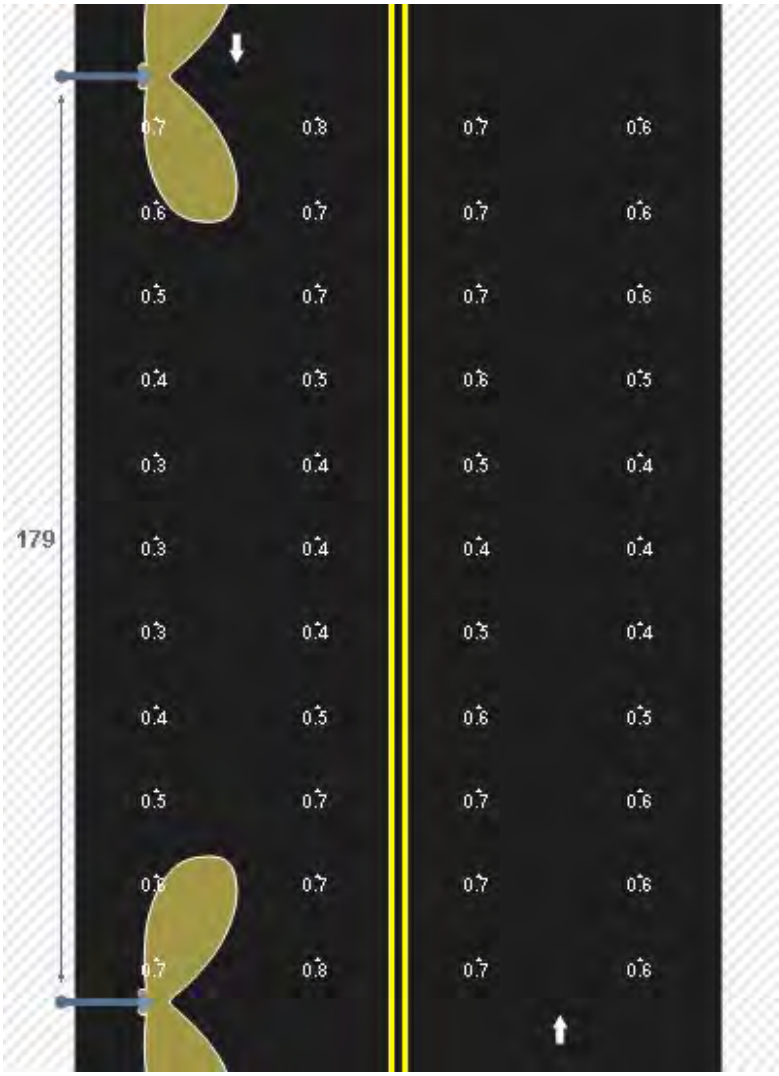

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.4	cd/m²
Max:	0.7	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.7	1.3	
Max/Min:	2.4	1.8	
Lv Ratio:	0.2	0.2	
STV:	2.3	2.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.7	fc
Min	0.3	0.4	fc
Ave/Min:	2	1.4	
Max/Min:	2.9	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

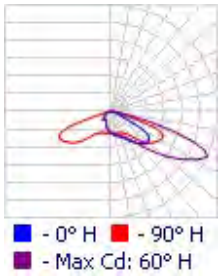
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

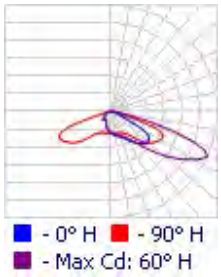
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	363.39 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	363.39 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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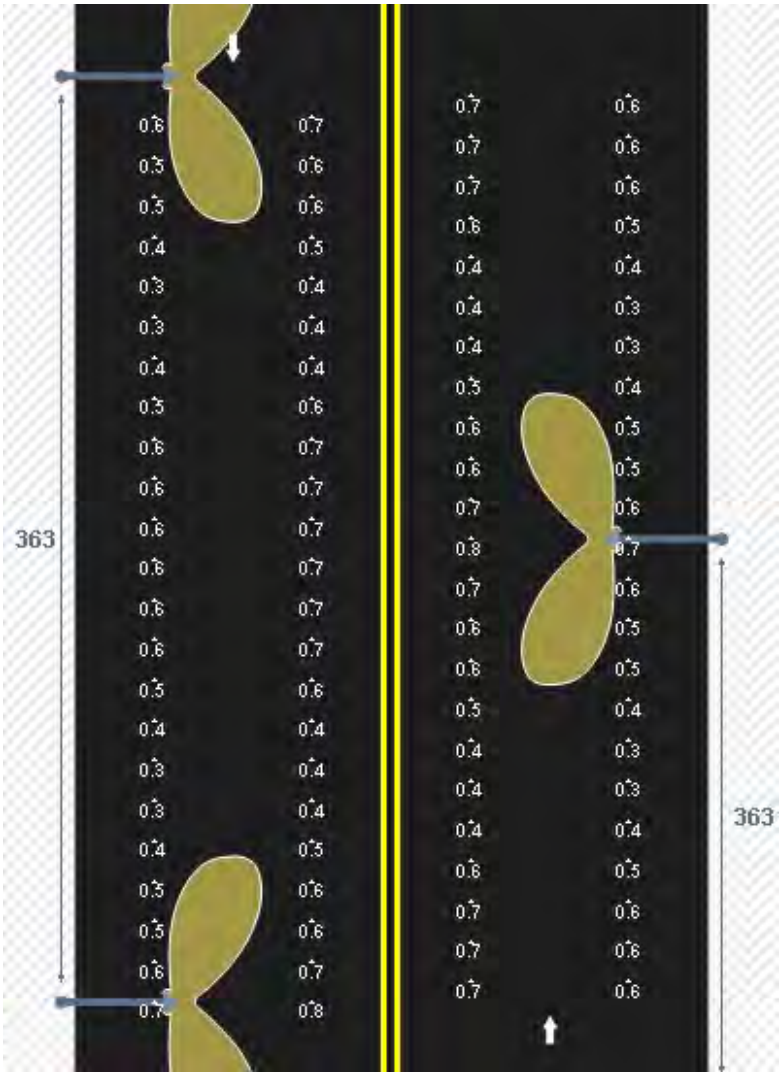

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.8	2.8	
Lv Ratio:	0.2	0.2	
STV:	2.4	2.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.6	2.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

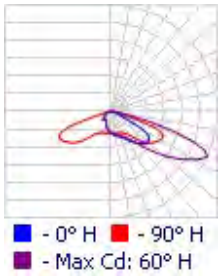
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

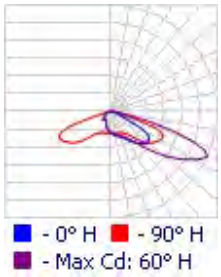
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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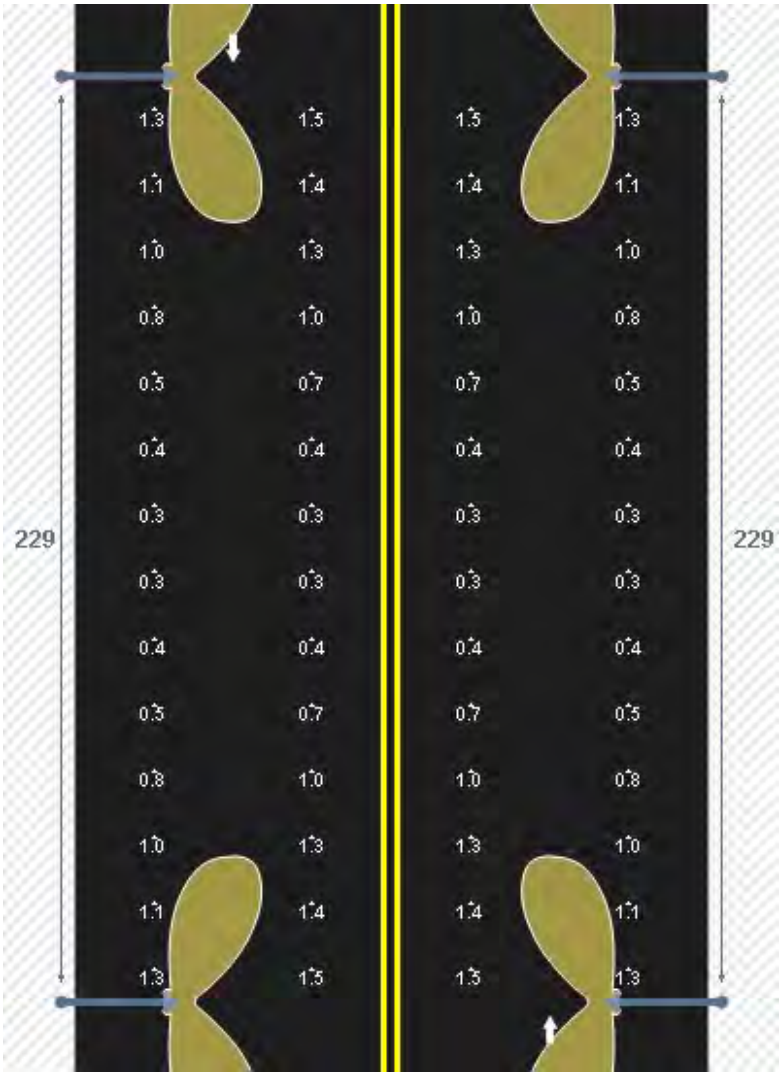

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.9	2.9	
Lv Ratio:	0.3	0.3	
STV:	4.4	4.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.3	5.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

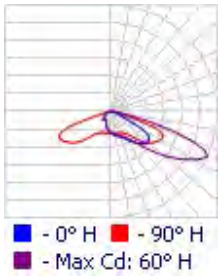
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	172.14 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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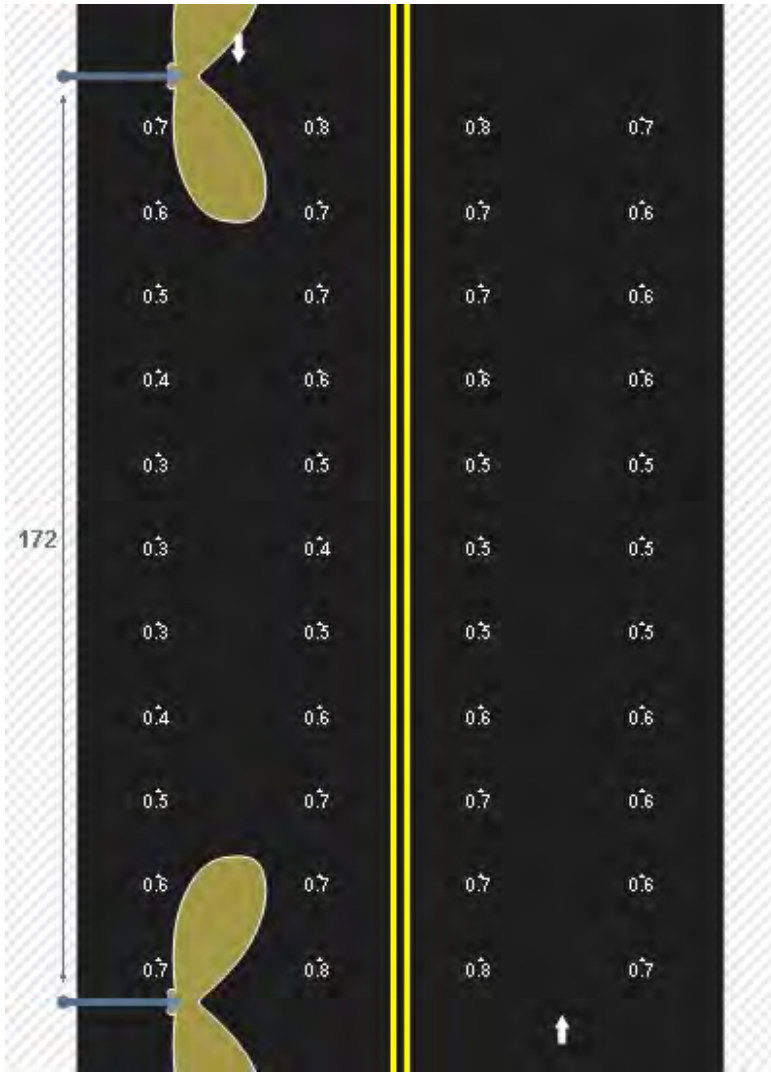

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.4	cd/m²
Max:	0.7	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.8	1.4	
Max/Min:	2.6	1.9	
Lv Ratio:	0.2	0.2	
STV:	2.1	2.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.5	fc
Ave/Min:	2	1.3	
Max/Min:	2.9	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

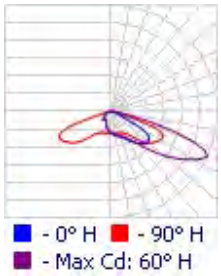
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

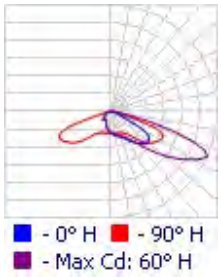
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	356.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	356.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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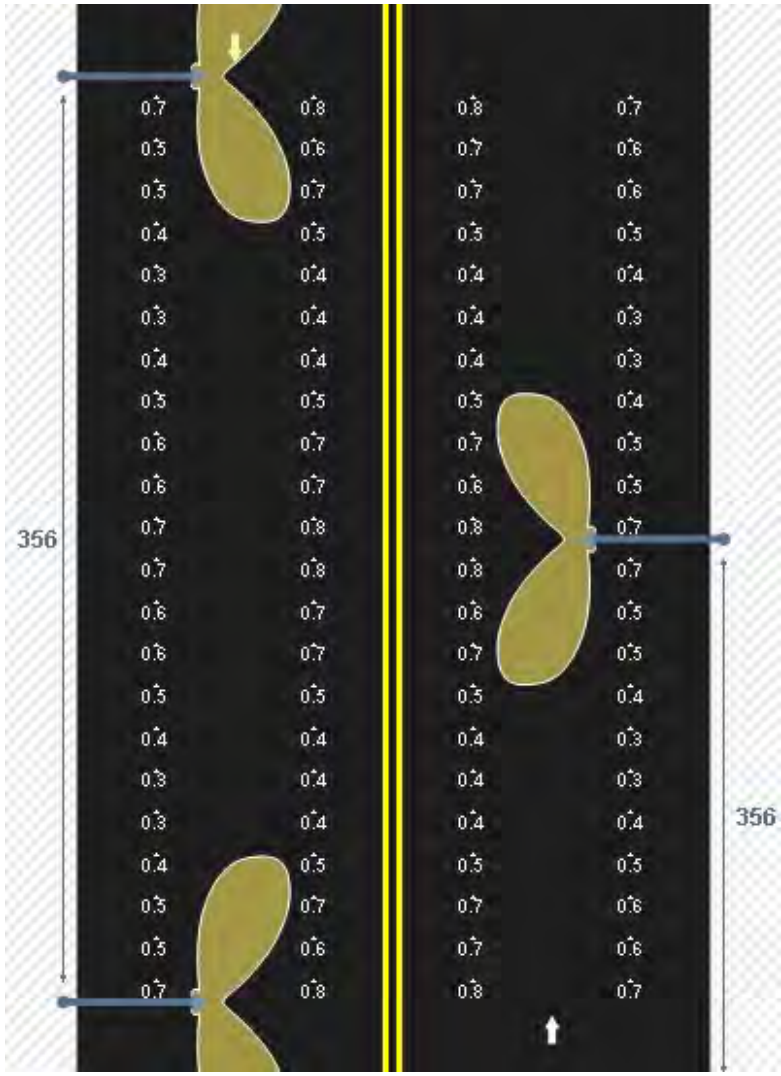

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.2	0.2	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3.1	3.1	
Lv Ratio:	0.2	0.2	
STV:	2.3	2.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.8	1.8	
Max/Min:	2.6	2.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

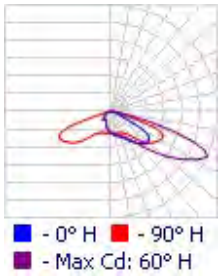
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

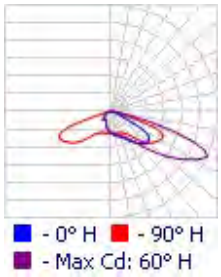
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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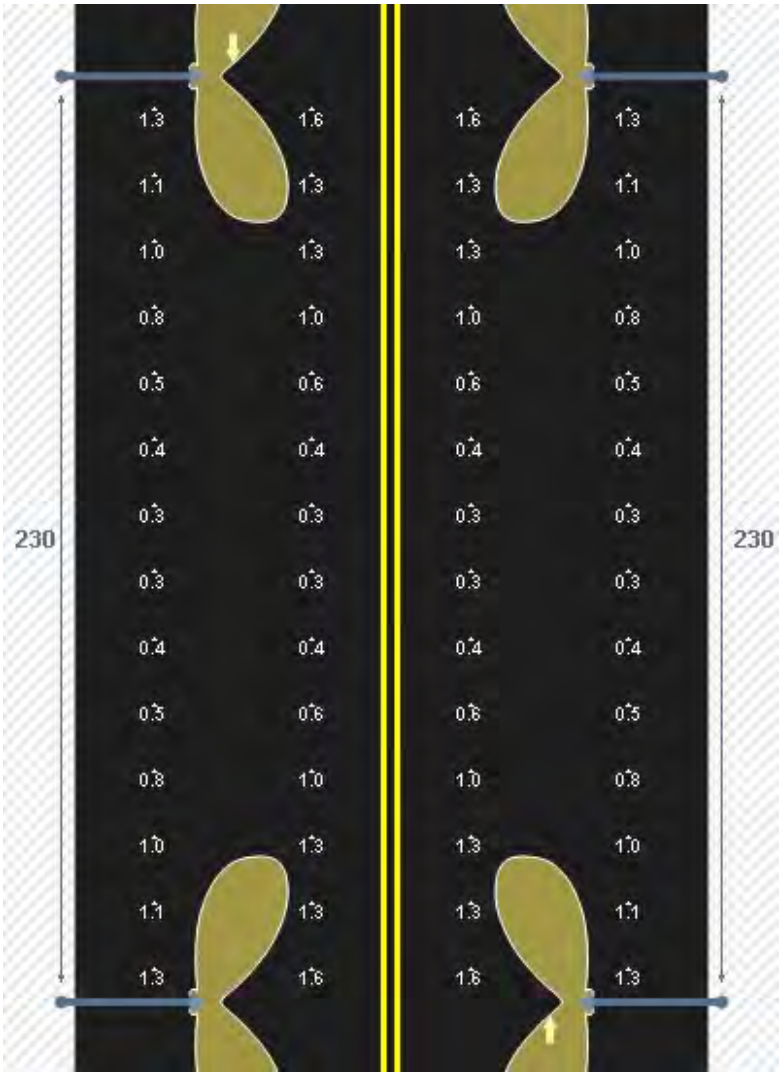

Illuminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.7	0.7	cd/m²	Average:	0.9	0.9	fc	Average:	--	--	fc
Max:	1.2	1.2	cd/m²	Max:	1.6	1.6	fc	Min	--	--	fc
Min	0.4	0.4	cd/m²	Min	0.3	0.3	fc	Ave/Min:	--	--	
Ave/Min:	1.8	1.8		Ave/Min:	3	3		Ev Min:	--	--	fc
Max/Min:	3.2	3.2		Max/Min:	5.5	5.5		**Bikelane**			
Lv Ratio:	0.3	0.3						Average:	--	--	fc
STV:	4.4	4.4						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

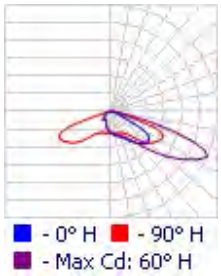
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	162.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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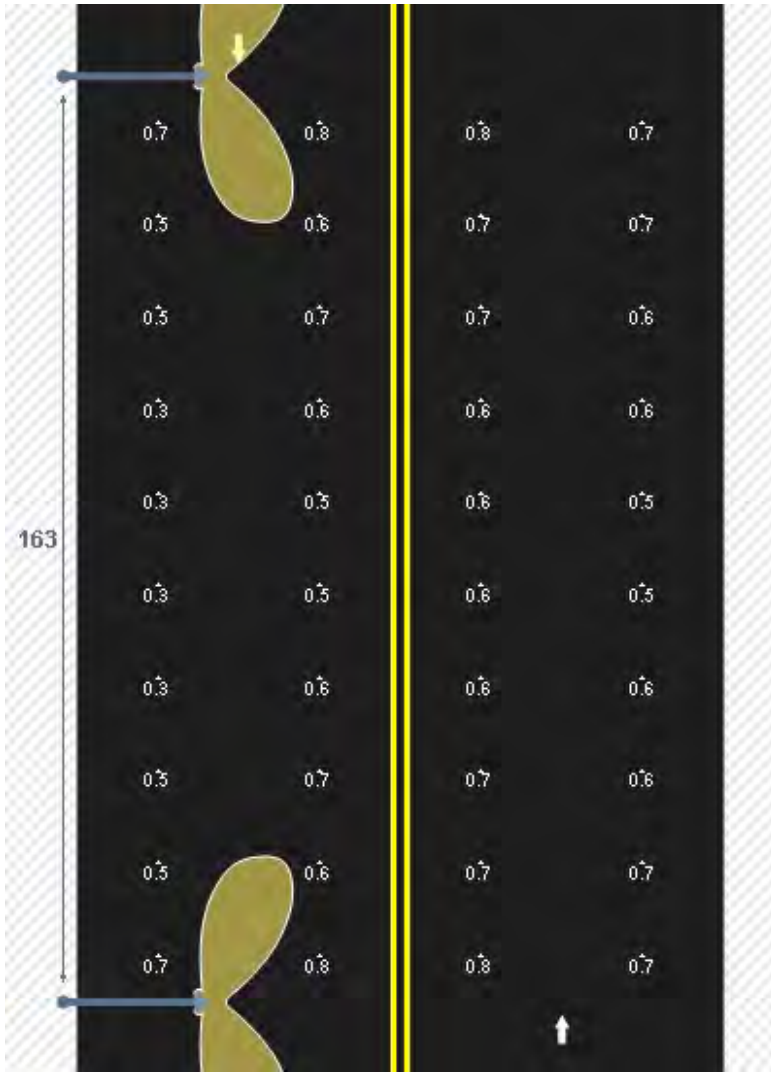

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.8	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.7	1.4	
Max/Min:	2.7	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.8	2.2	

Illuminance	Left	Right	
Average:	0.6	0.7	fc
Max:	0.8	0.8	fc
Min	0.3	0.5	fc
Ave/Min:	1.9	1.2	
Max/Min:	2.8	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

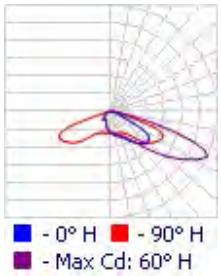
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

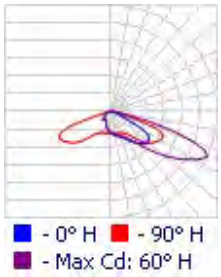
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	349.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	349.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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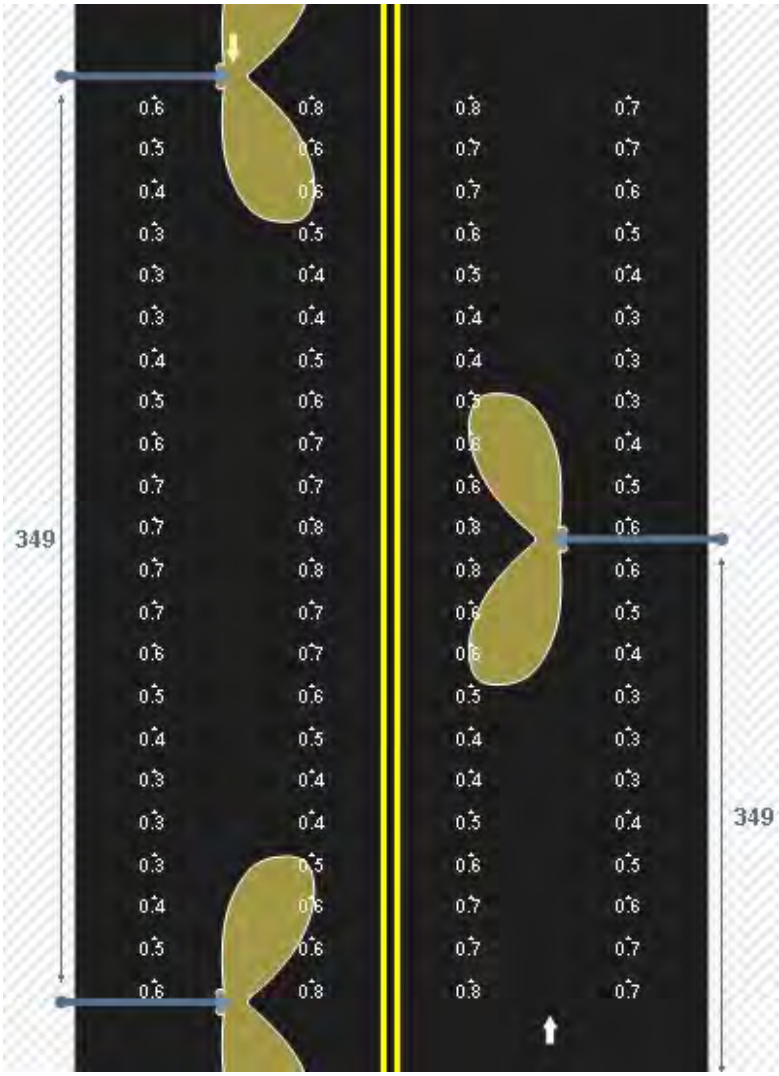

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.2	0.2	cd/m²
Ave/Min:	2	2	
Max/Min:	3.4	3.4	
Lv Ratio:	0.2	0.2	
STV:	2.2	2.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	1.8	1.8	
Max/Min:	2.7	2.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

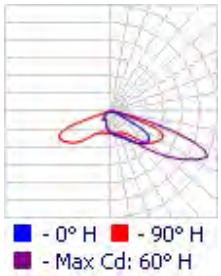
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

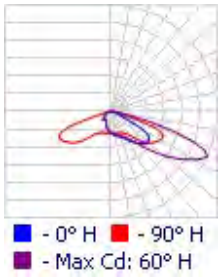
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.97 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.97 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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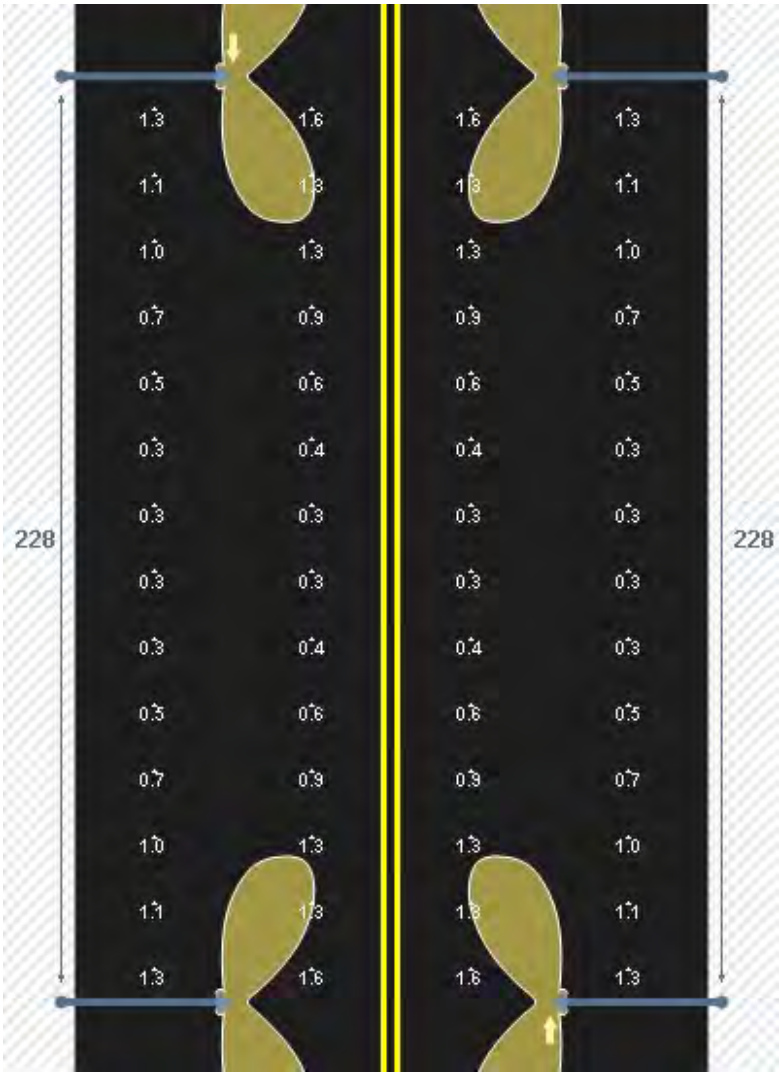

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3.3	3.3	
Lv Ratio:	0.3	0.3	
STV:	4.3	4.3	

Illuminance	Left	Right	
Average:	0.8	0.8	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.5	5.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

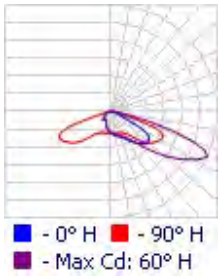
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	151.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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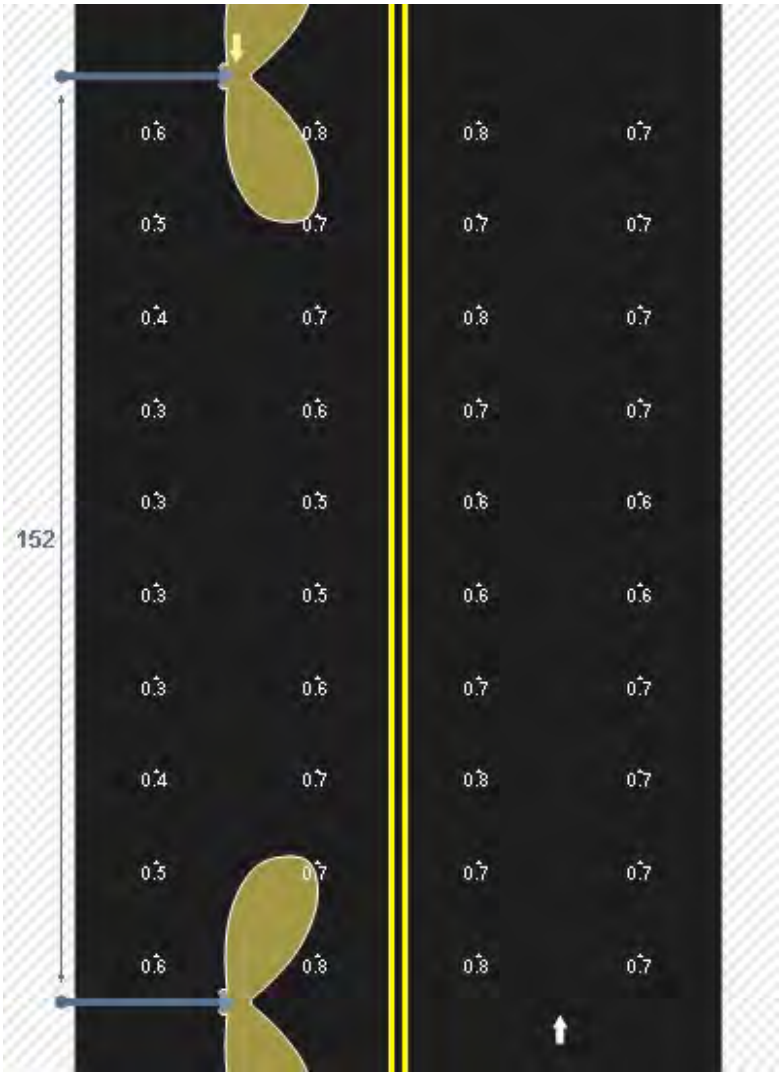

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.8	0.7	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.6	1.5	
Max/Min:	2.6	2.1	
Lv Ratio:	0.2	0.2	
STV:	1.5	2.1	

Illuminance	Left	Right	
Average:	0.6	0.7	fc
Max:	0.8	0.8	fc
Min	0.3	0.6	fc
Ave/Min:	1.9	1.1	
Max/Min:	2.8	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

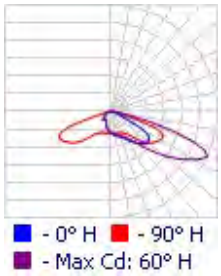
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

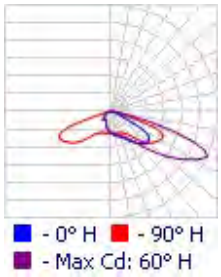
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	334.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	334.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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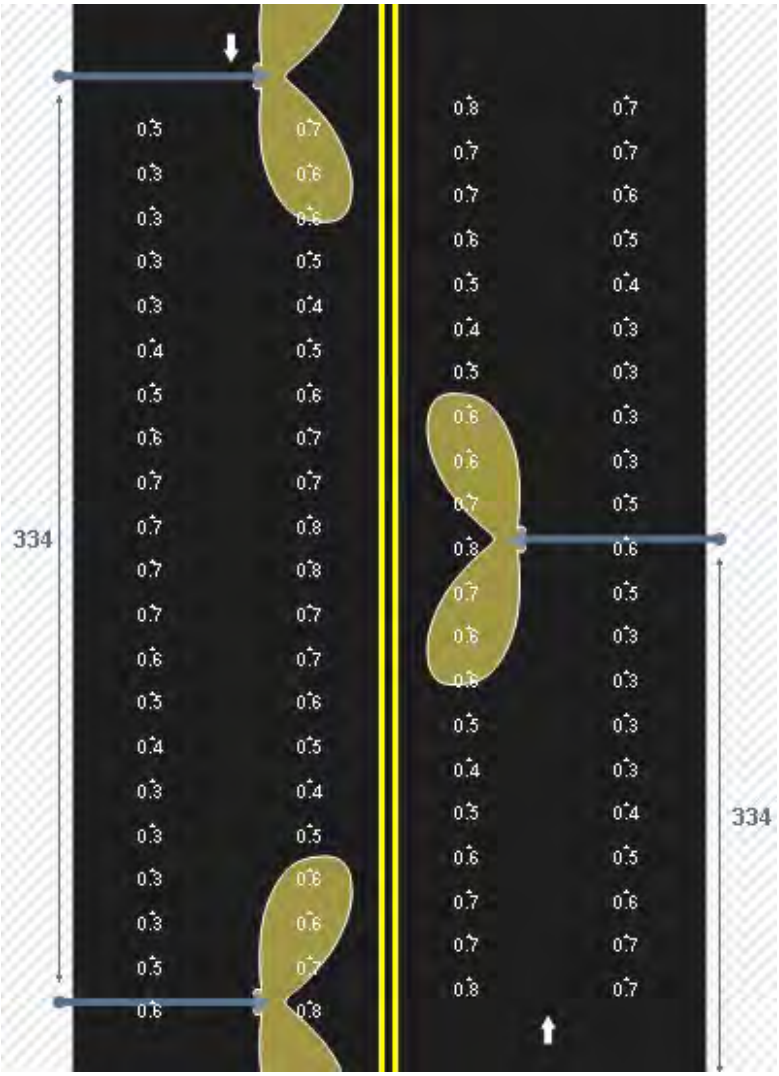

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.2	0.2	cd/m²
Ave/Min:	2.2	2.2	
Max/Min:	3.8	3.8	
Lv Ratio:	0.2	0.2	
STV:	2.1	2.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.3	0.3	fc
Ave/Min:	2	2	
Max/Min:	2.9	2.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

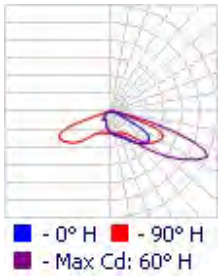
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

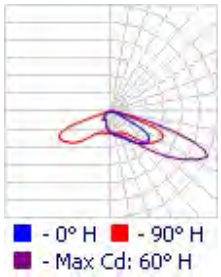
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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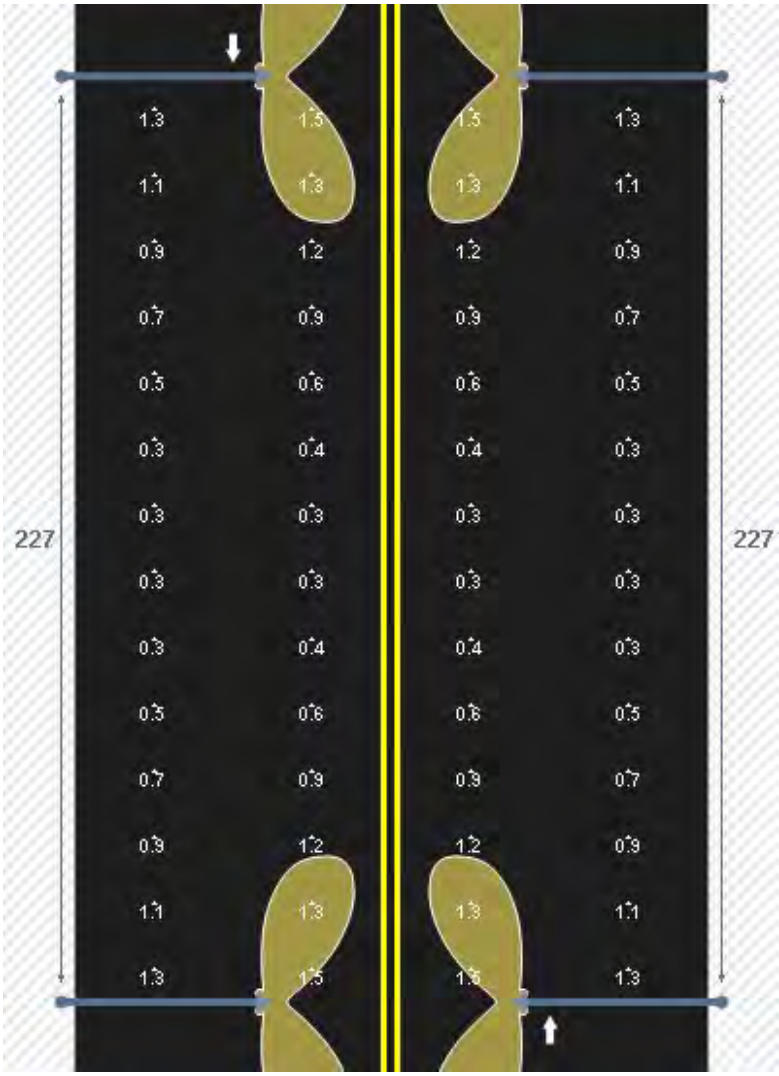

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.9	1.9	
Max/Min:	3.6	3.6	
Lv Ratio:	0.3	0.3	
STV:	4.2	4.2	

Illuminance	Left	Right	
Average:	0.8	0.8	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.7	5.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

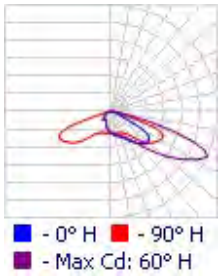
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	135.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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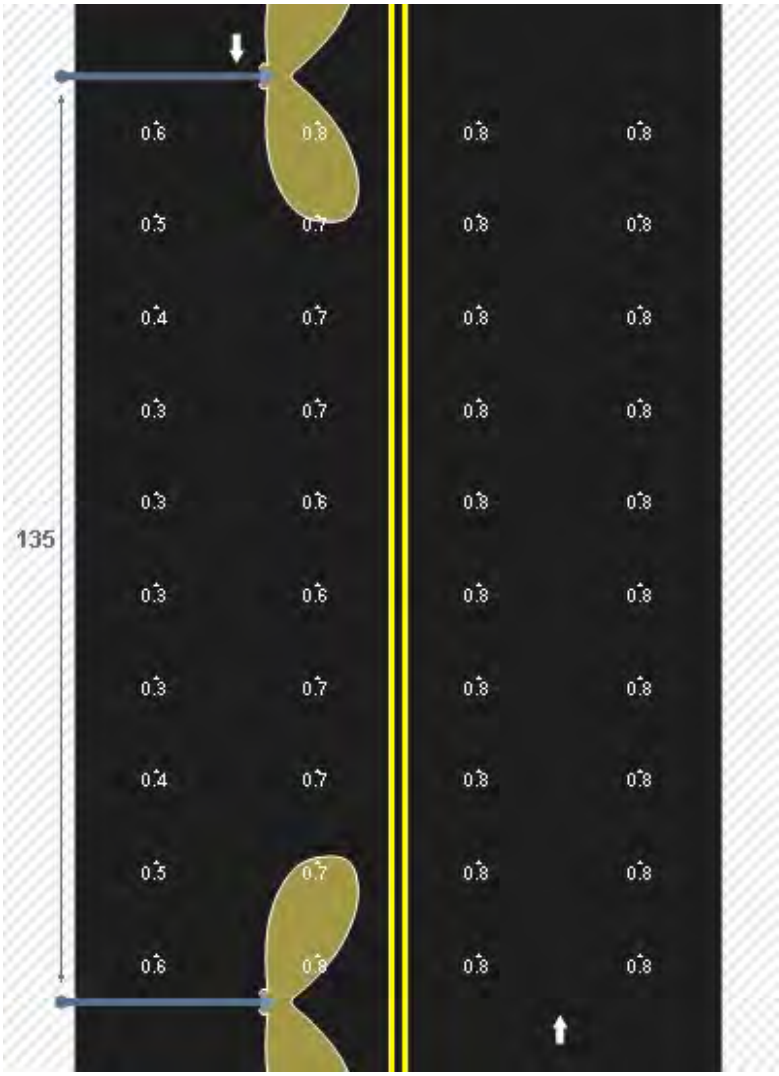

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.3	0.4	cd/m²
Ave/Min:	1.6	1.4	
Max/Min:	2.7	2	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.7	

Illuminance	Left	Right	
Average:	0.6	0.8	fc
Max:	0.8	0.8	fc
Min	0.3	0.8	fc
Ave/Min:	2.2	1	
Max/Min:	3.3	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	136.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	136.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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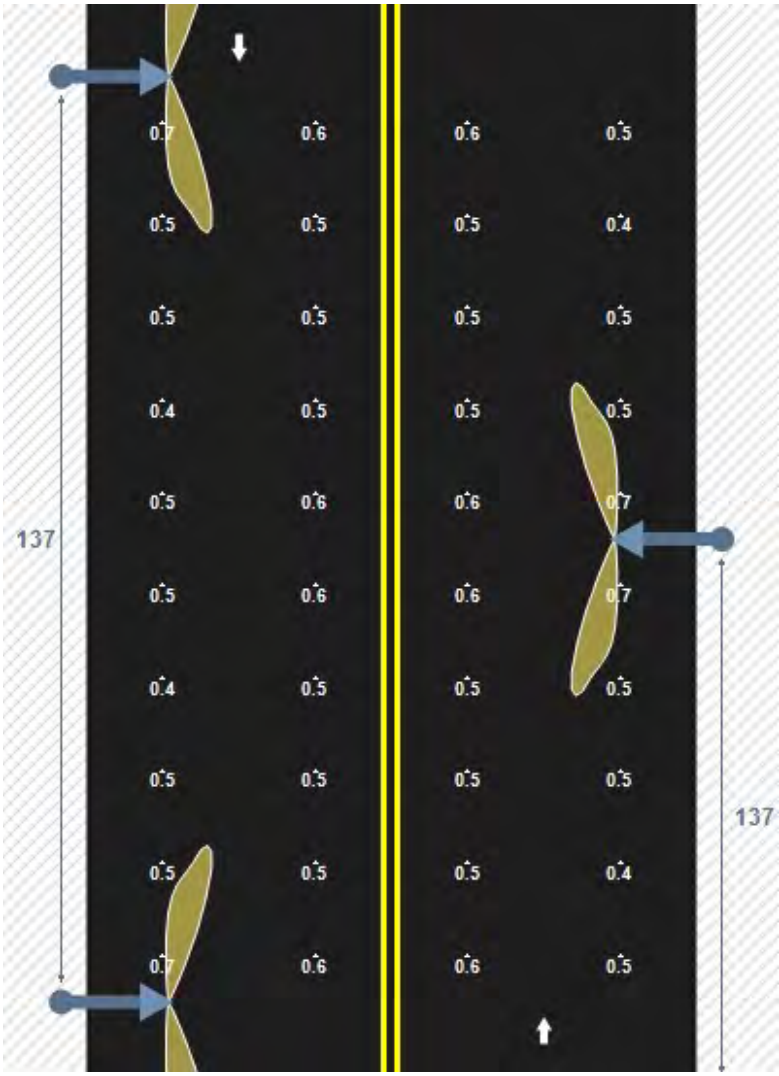

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.5	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Tuesday, April 20, 2021

Design Information

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	136.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	136.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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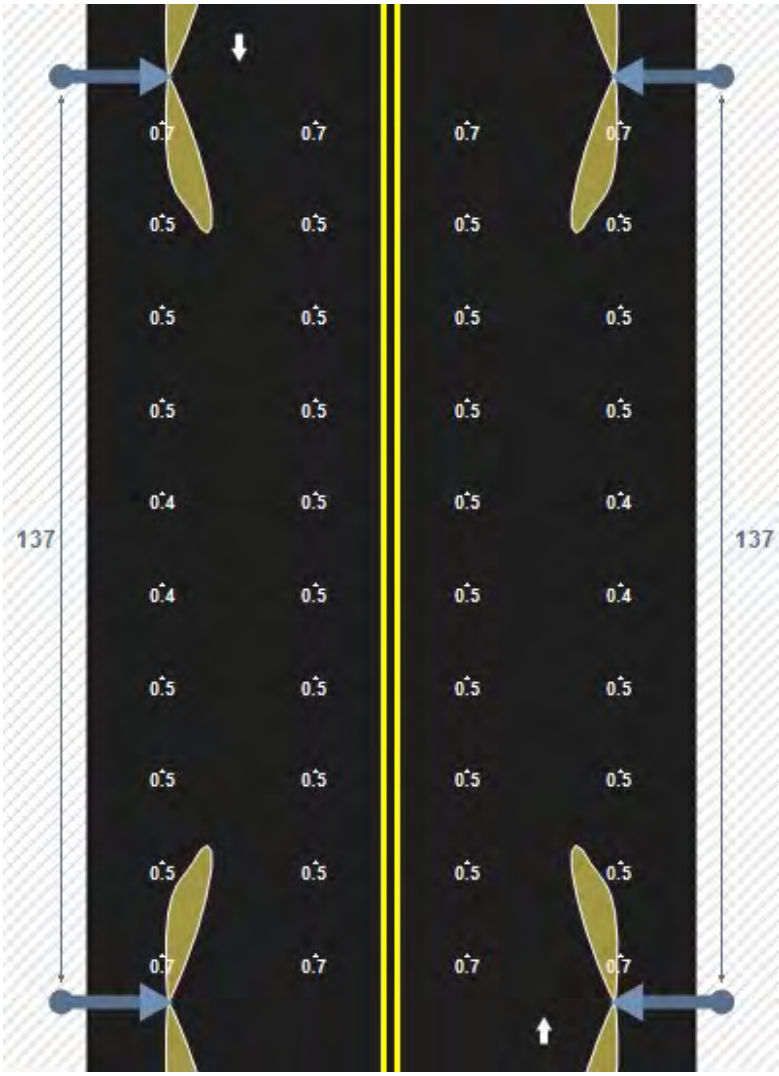

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.5	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	63.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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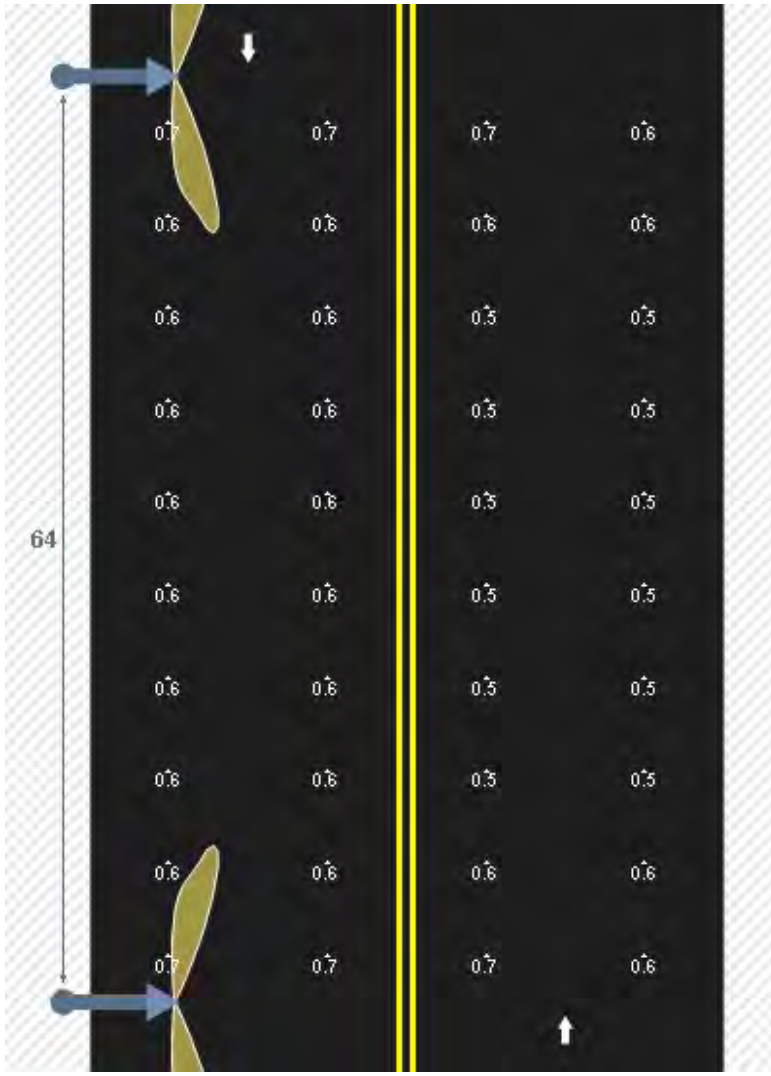

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.6	cd/m²
Max:	0.8	0.7	cd/m²
Min	0.7	0.4	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.6	
Lv Ratio:	0.2	0.2	
STV:	0.5	1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.6	0.5	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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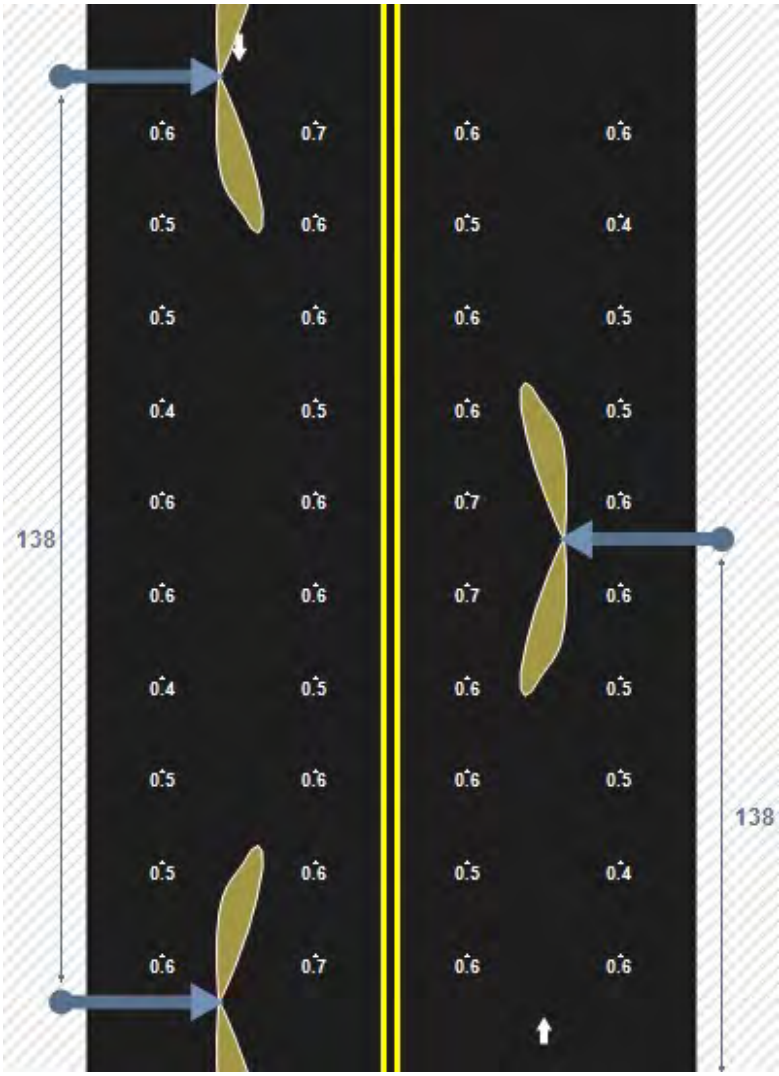

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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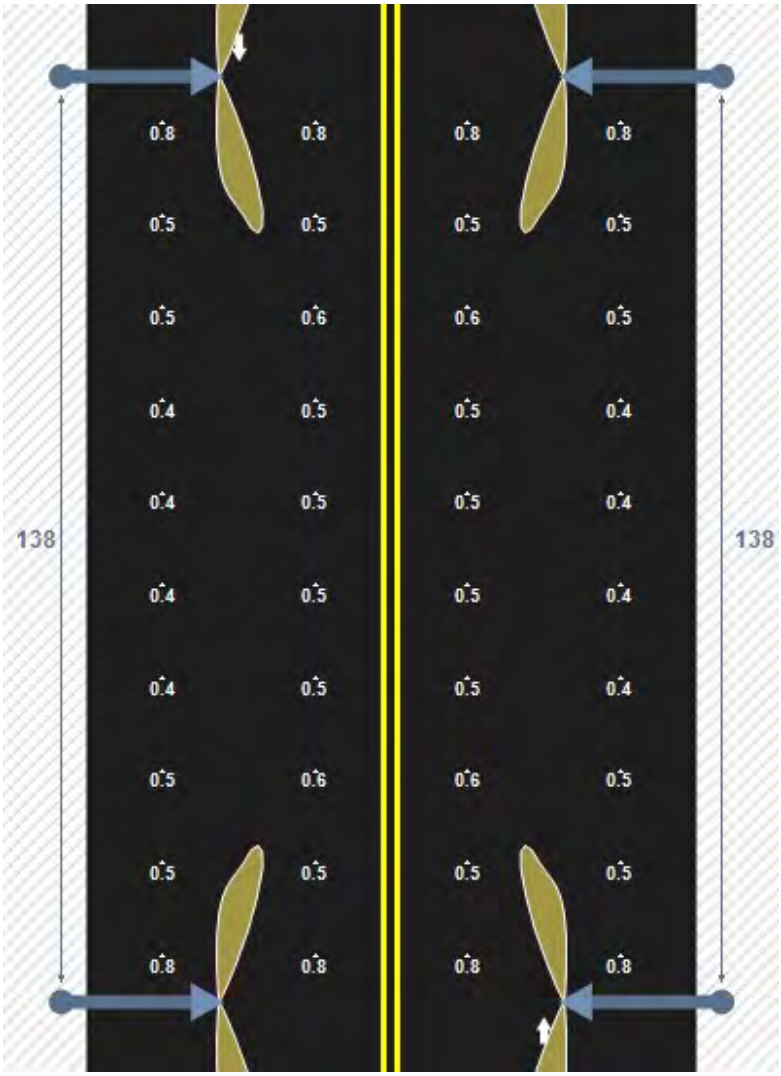

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	66.84 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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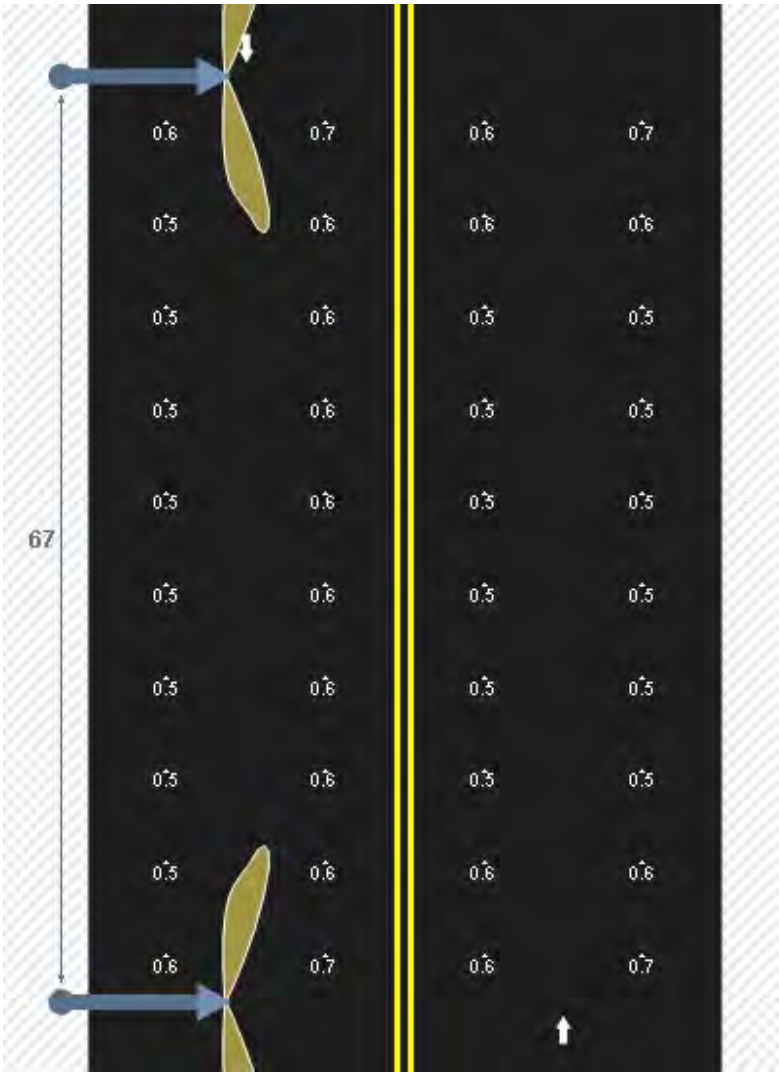

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.6	cd/m²
Max:	0.8	0.7	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.2	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.7	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.5	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	133.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	133.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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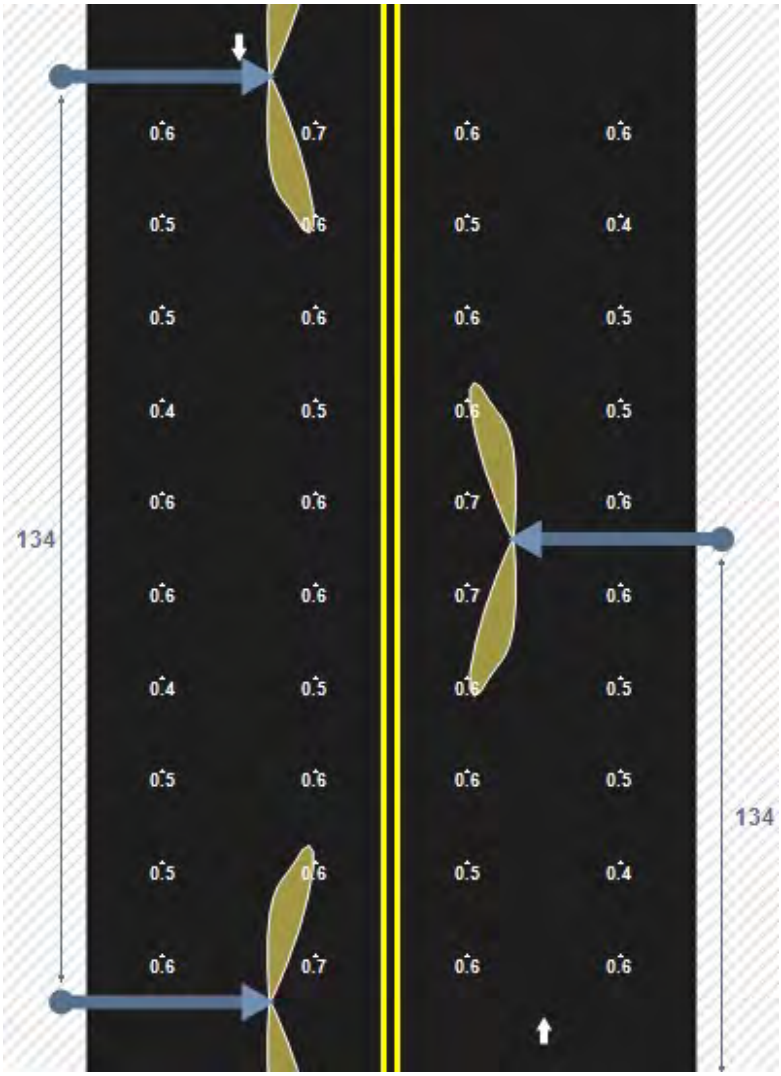

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	133.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	133.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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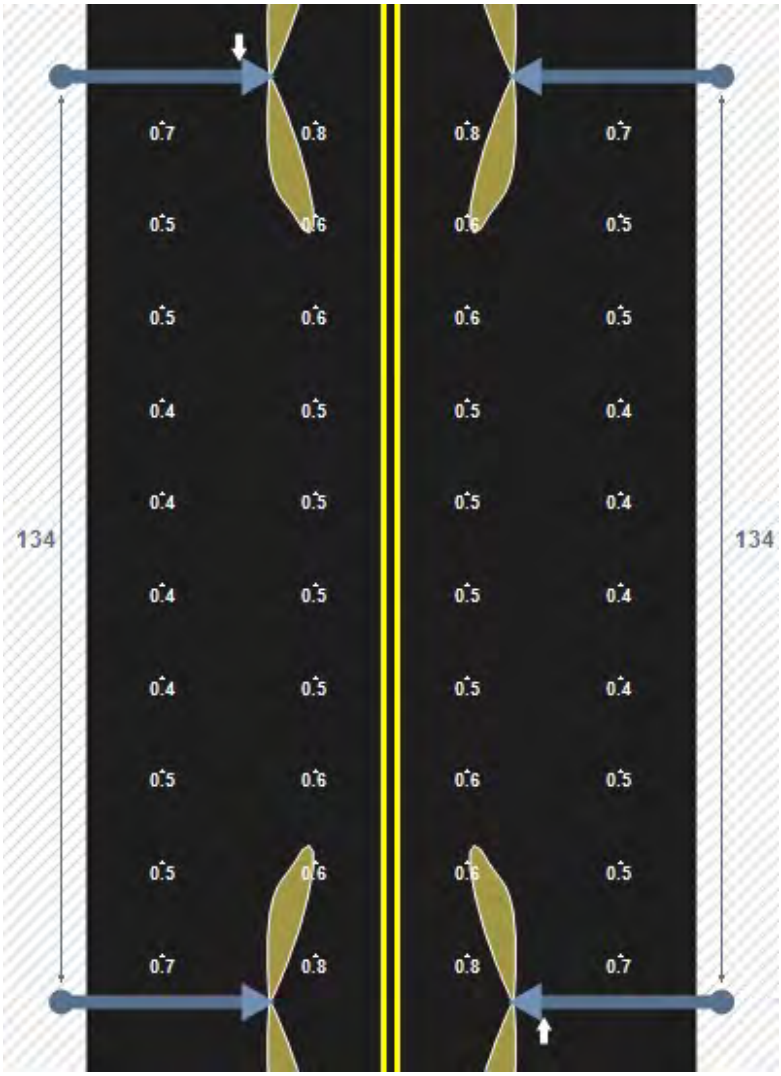

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.5	2.5	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	63.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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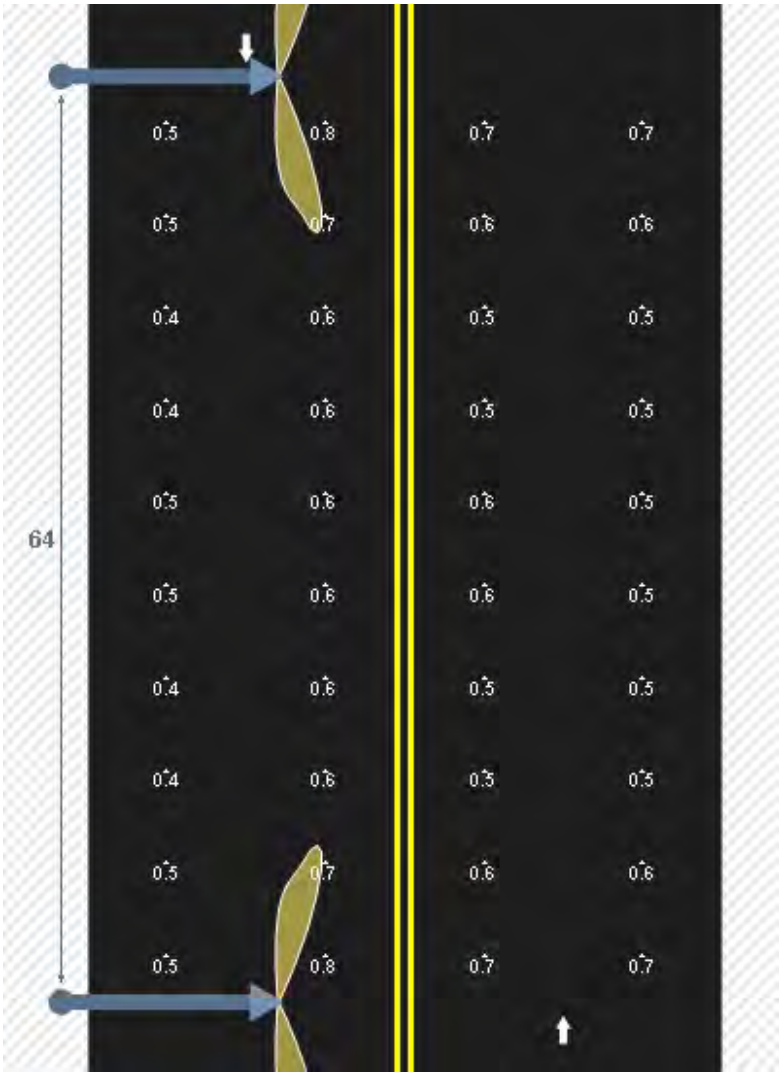

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.4	1.3	
Max/Min:	1.8	1.5	
Lv Ratio:	0.1	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.7	fc
Min	0.4	0.5	fc
Ave/Min:	1.3	1.2	
Max/Min:	1.8	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Tuesday, April 20, 2021

Design Information

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	122.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	122.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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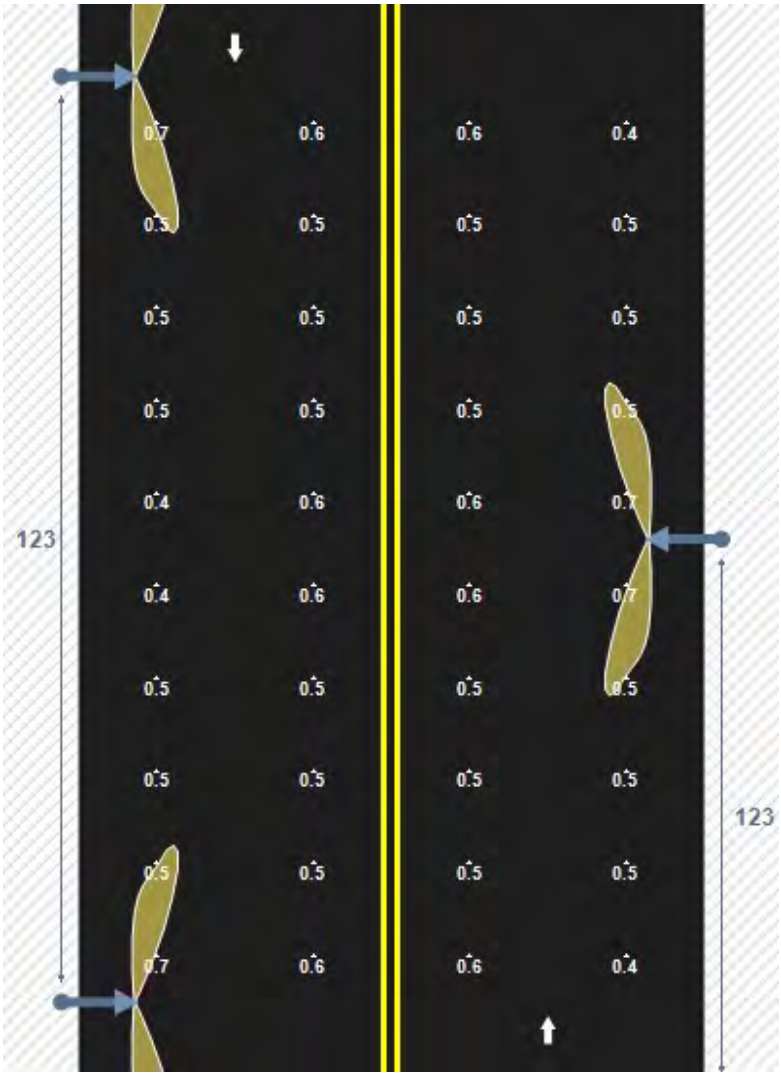

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.5	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Tuesday, April 20, 2021

Design Information

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	122.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	122.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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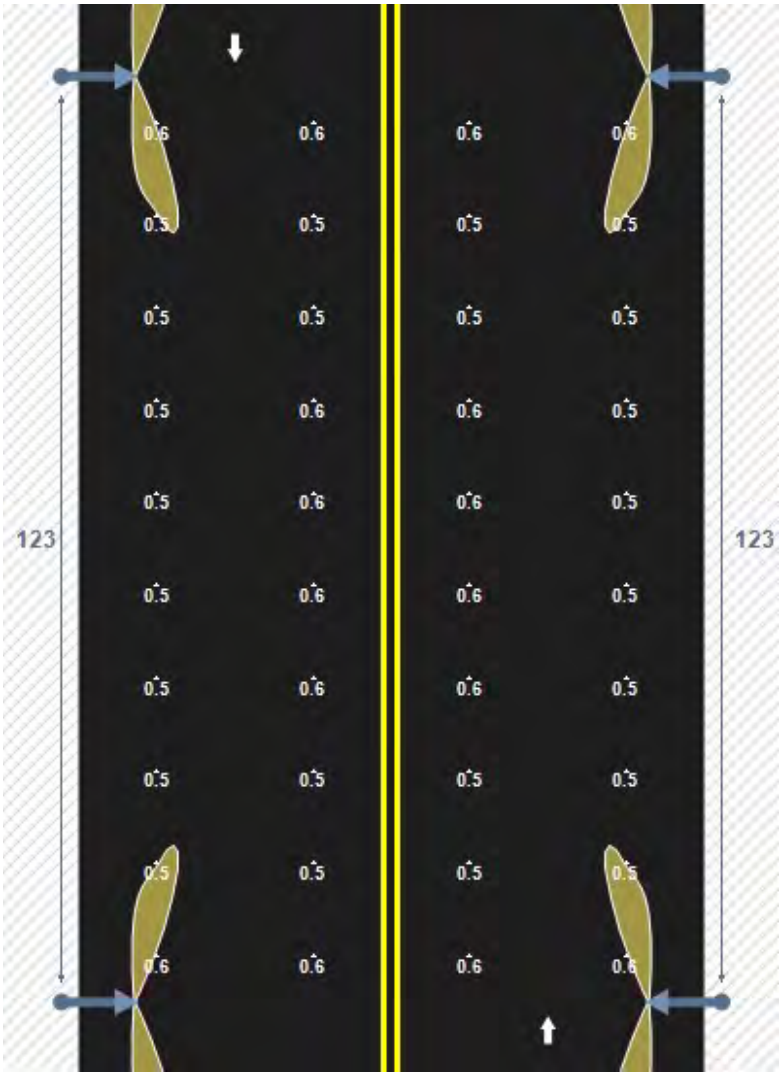

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.3	0.3	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.5	0.5	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	51.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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Visual - Roadway Tool

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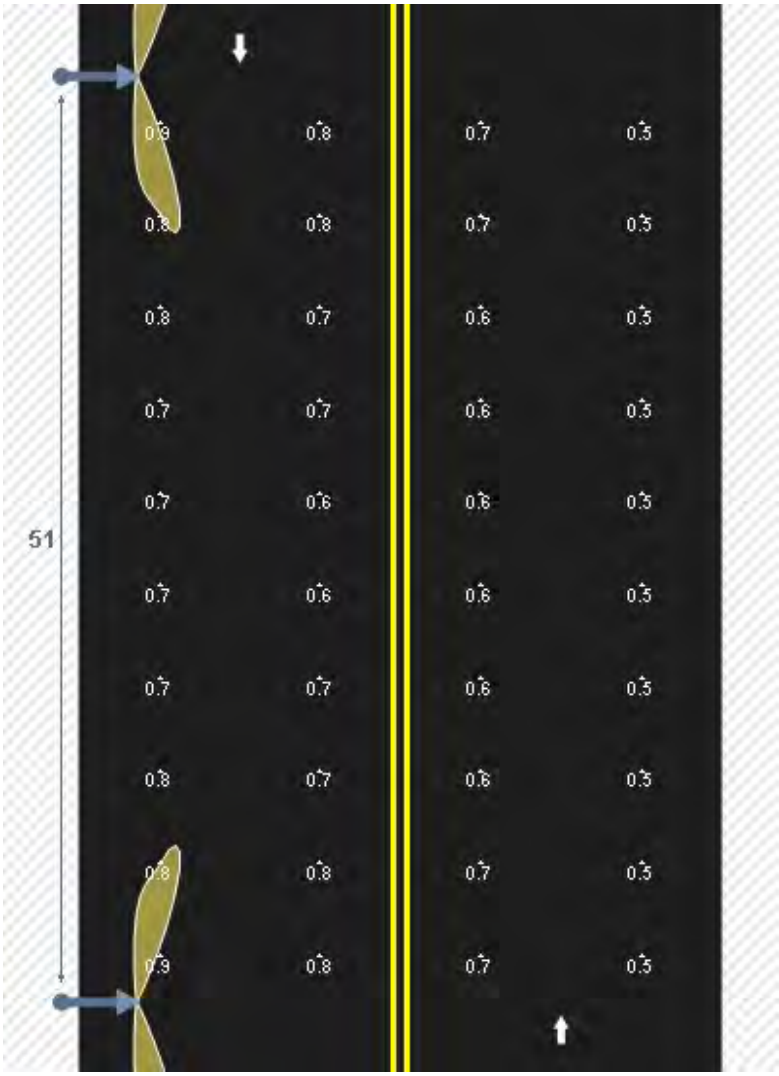

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.5	cd/m²
Max:	1	0.6	cd/m²
Min	0.7	0.4	cd/m²
Ave/Min:	1.2	1.3	
Max/Min:	1.3	1.6	
Lv Ratio:	0.2	0.3	
STV:	0.6	2.3	

Illuminance	Left	Right	
Average:	0.7	0.6	fc
Max:	0.9	0.7	fc
Min	0.6	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	125.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	125.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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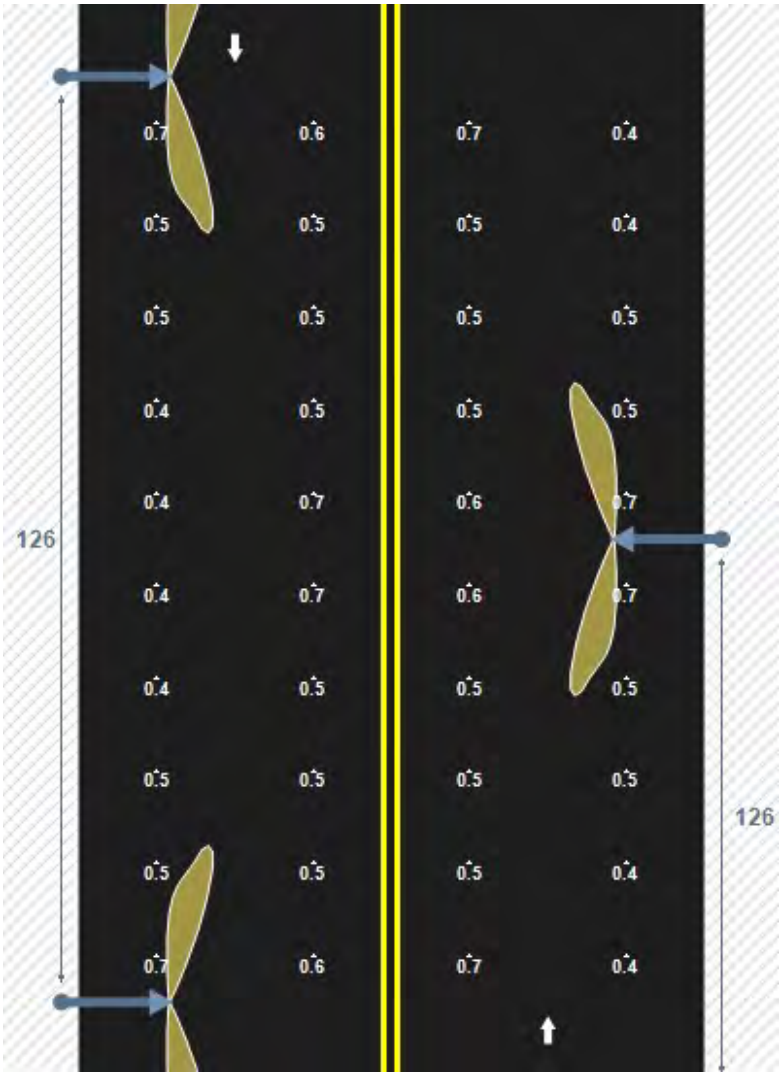

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	126.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	126.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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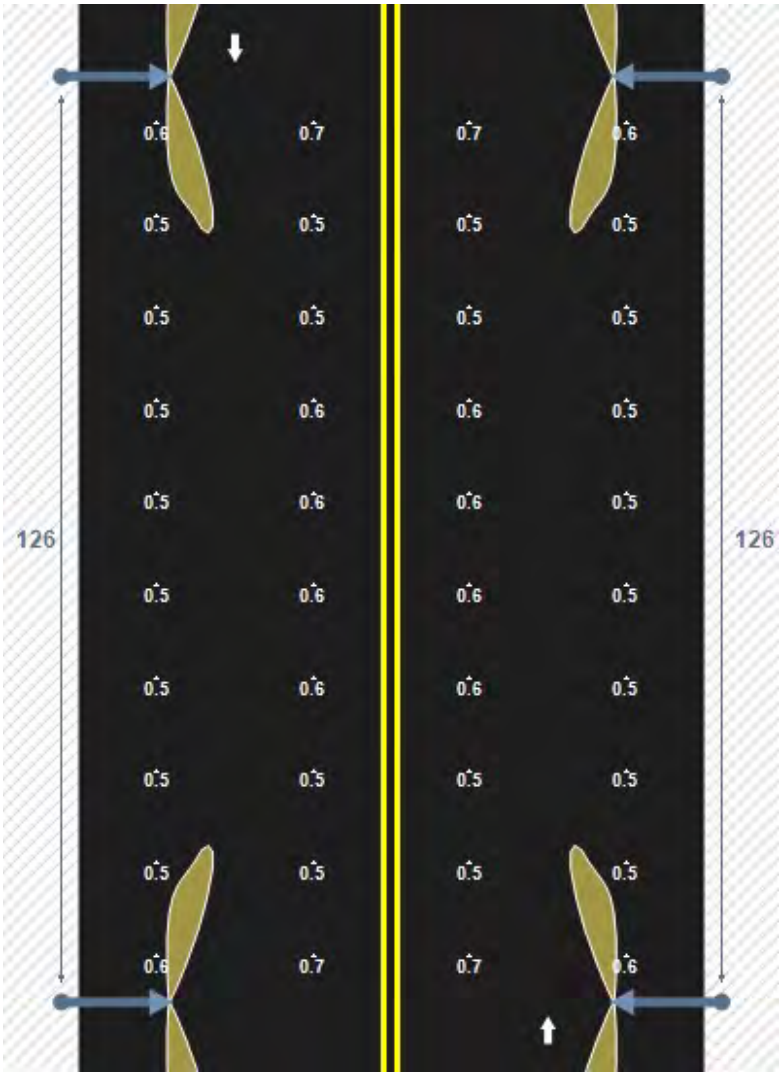

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	2	2	
Lv Ratio:	0.3	0.3	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.5	0.5	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	56.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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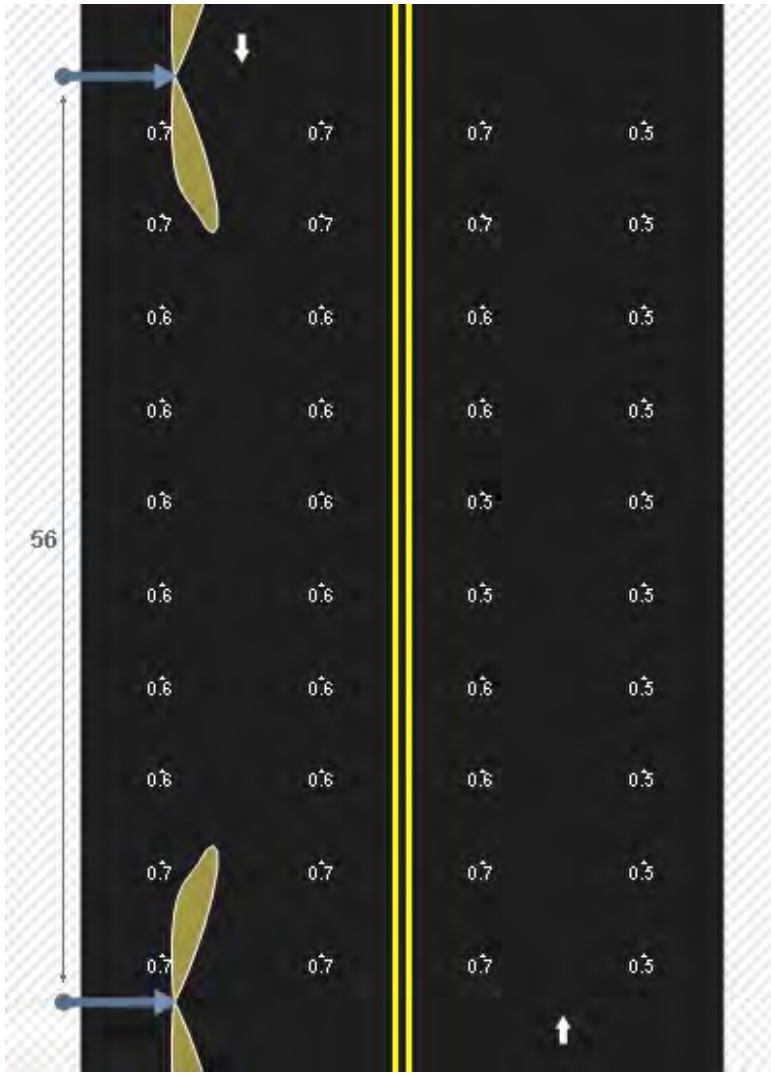

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.5	cd/m²
Max:	0.8	0.7	cd/m²
Min	0.7	0.4	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.1	1.8	
Lv Ratio:	0.2	0.3	
STV:	0.4	2	

Illuminance	Left	Right	
Average:	0.7	0.6	fc
Max:	0.7	0.7	fc
Min	0.6	0.5	fc
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	127.42 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	127.42 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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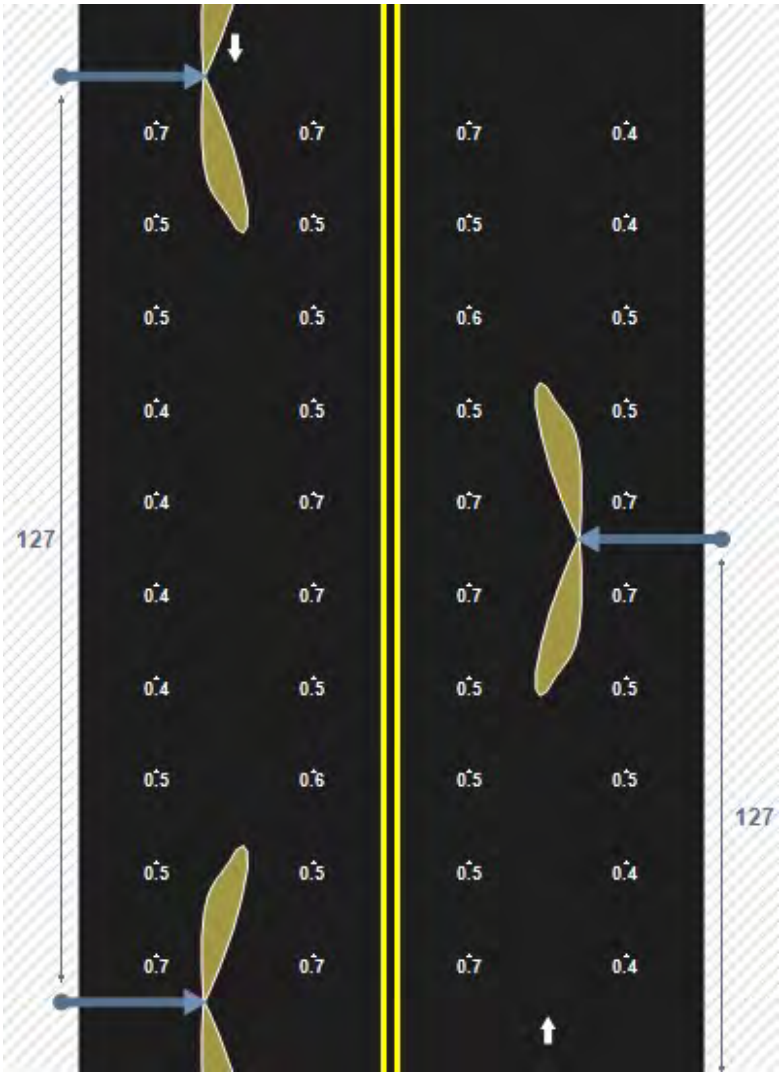

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, April 20, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	127.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	127.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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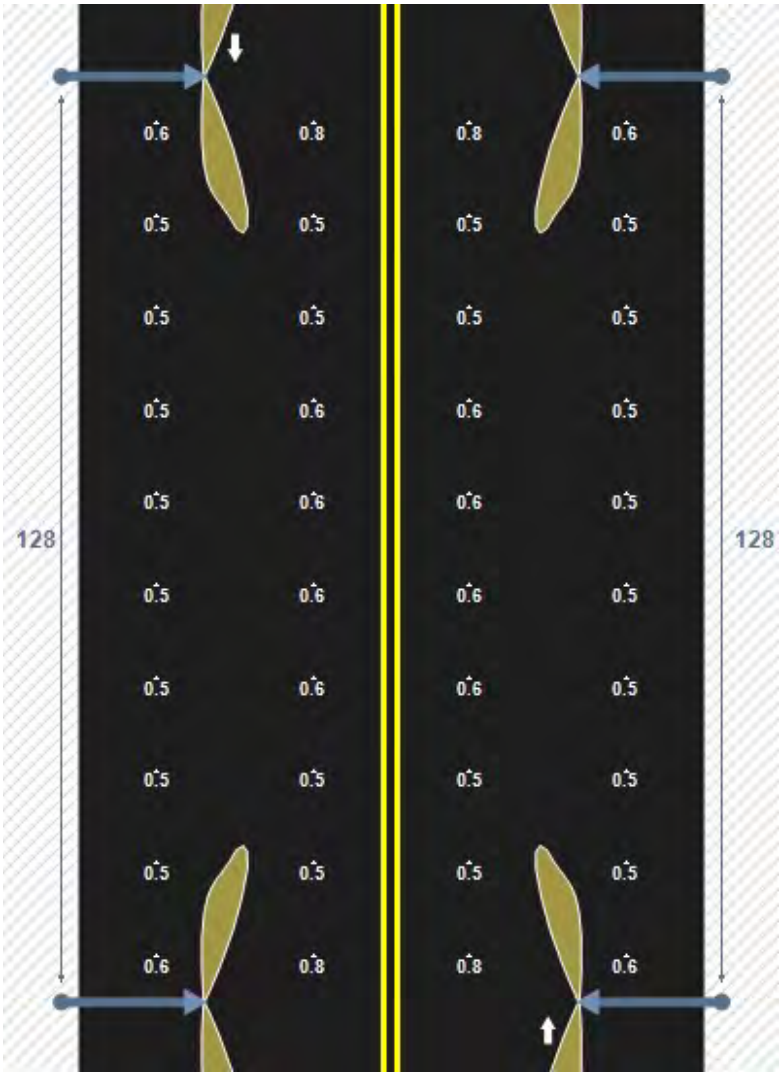

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.2	2.2	
Lv Ratio:	0.3	0.3	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.8	0.8	fc
Min	0.5	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	59.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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Visual - Roadway Tool

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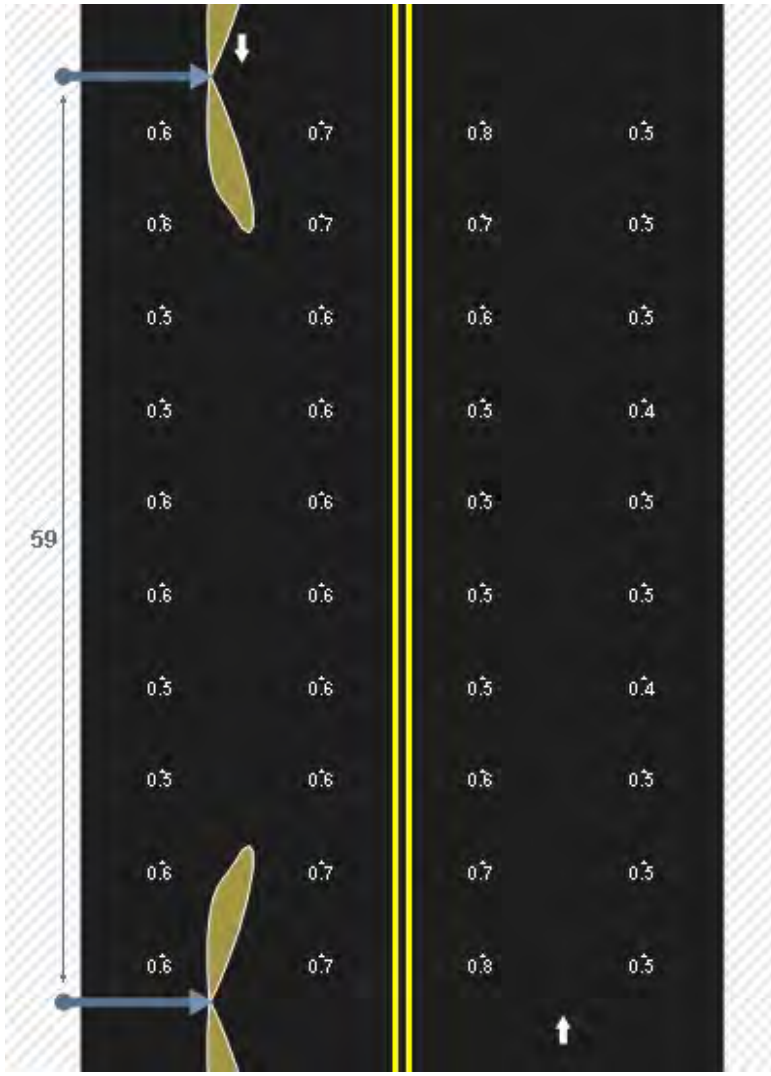

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.5	cd/m²
Max:	0.8	0.7	cd/m²
Min	0.6	0.4	cd/m²
Ave/Min:	1.2	1.4	
Max/Min:	1.4	2	
Lv Ratio:	0.2	0.2	
STV:	0.4	1.7	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.8	fc
Min	0.5	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Your Email

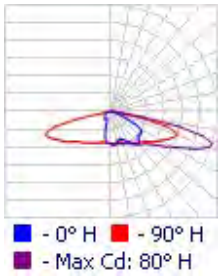
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

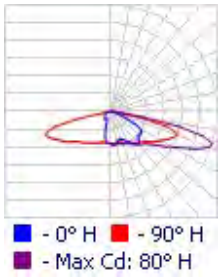
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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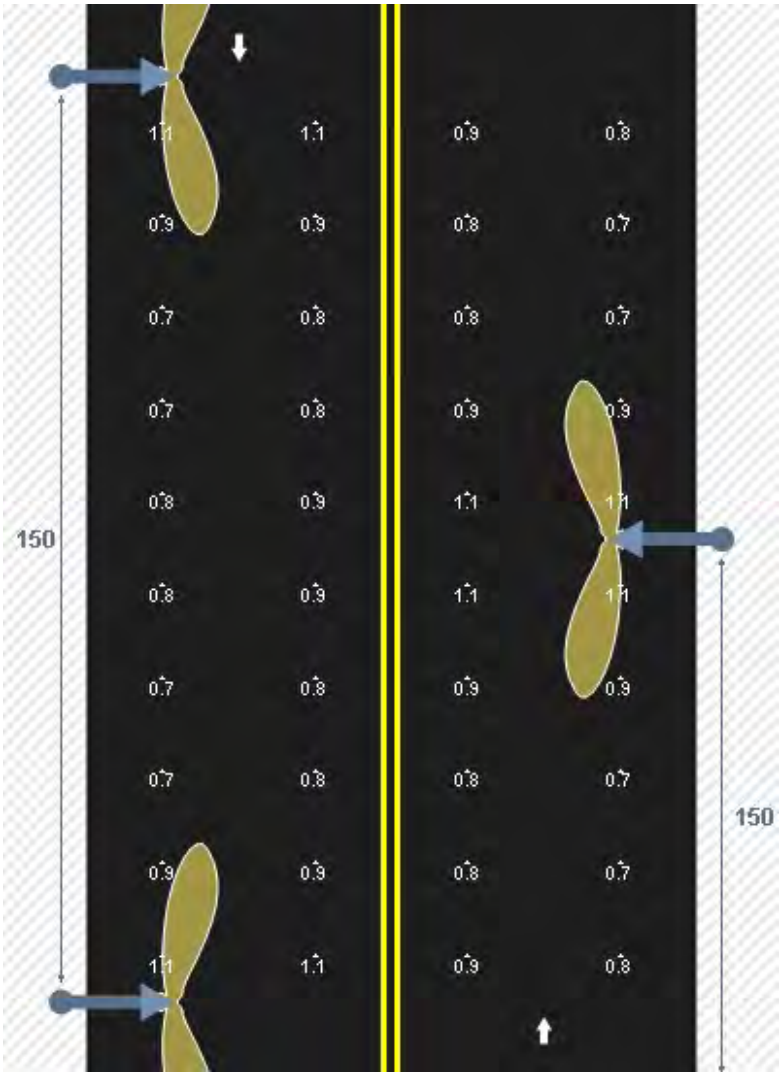

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Project Description

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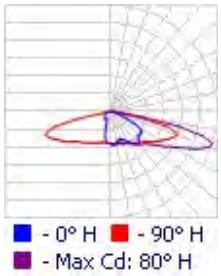
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

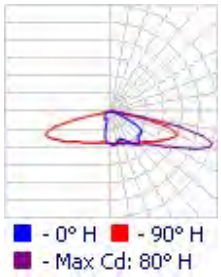
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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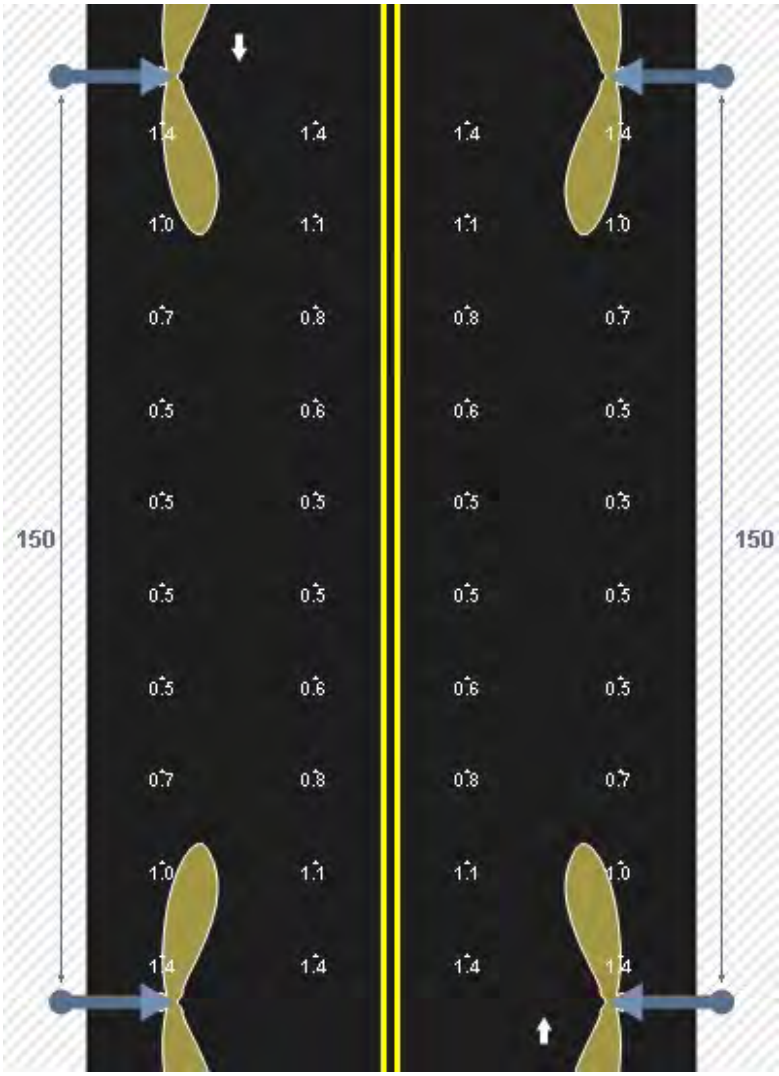

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.3	0.3	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.8	1.8	
Max/Min:	3	3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

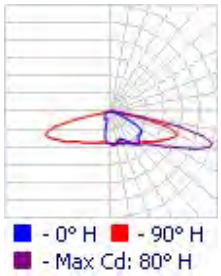
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	70.34 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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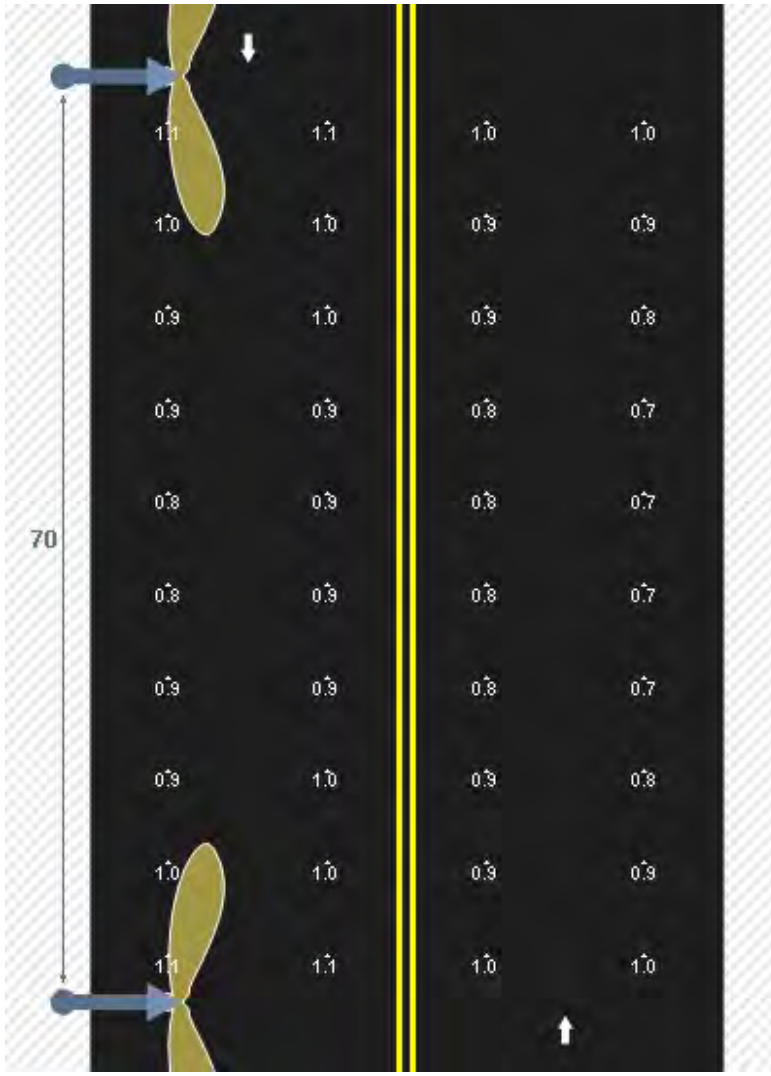

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	1	0.6	cd/m²
Ave/Min:	1	1.3	
Max/Min:	1.1	1.6	
Lv Ratio:	0.1	0.2	
STV:	0.8	1	

Illuminance	Left	Right	
Average:	1	0.9	fc
Max:	1.1	1	fc
Min	0.8	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

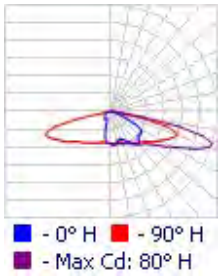
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

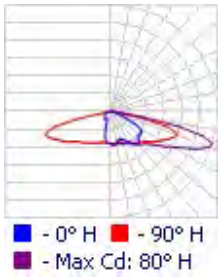
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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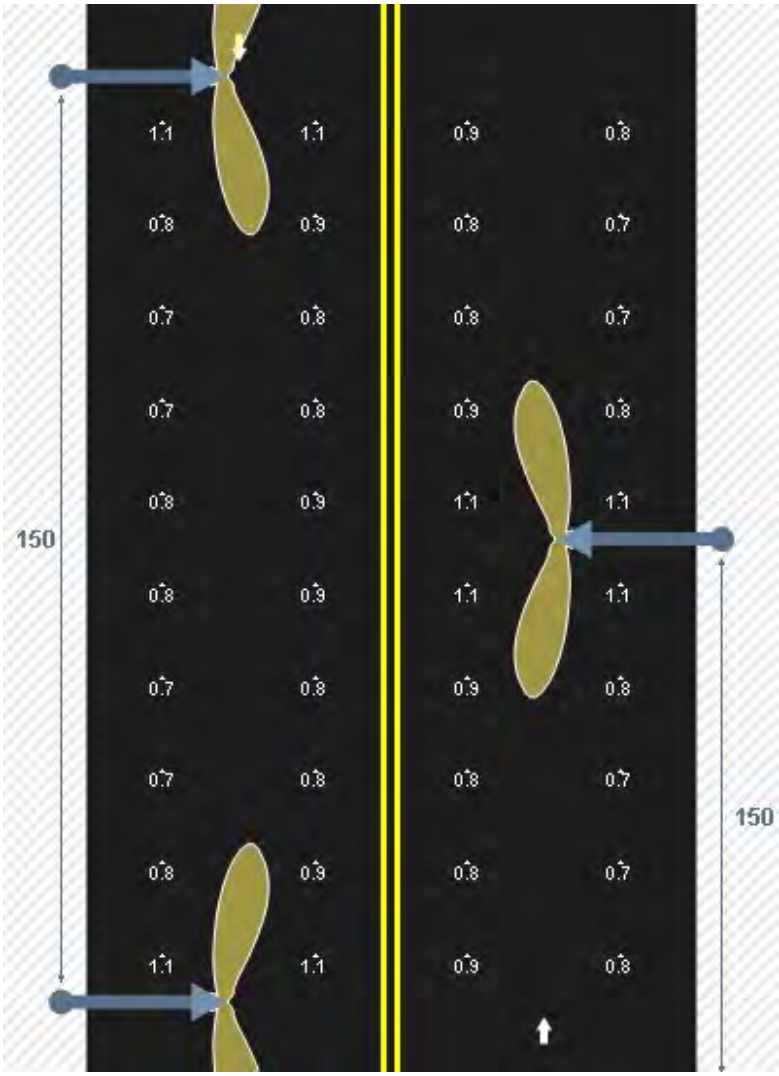

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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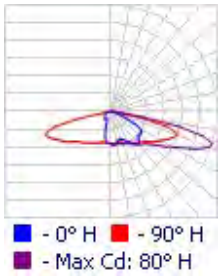
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

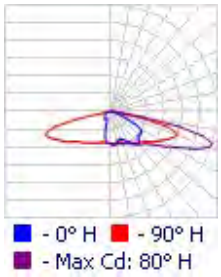
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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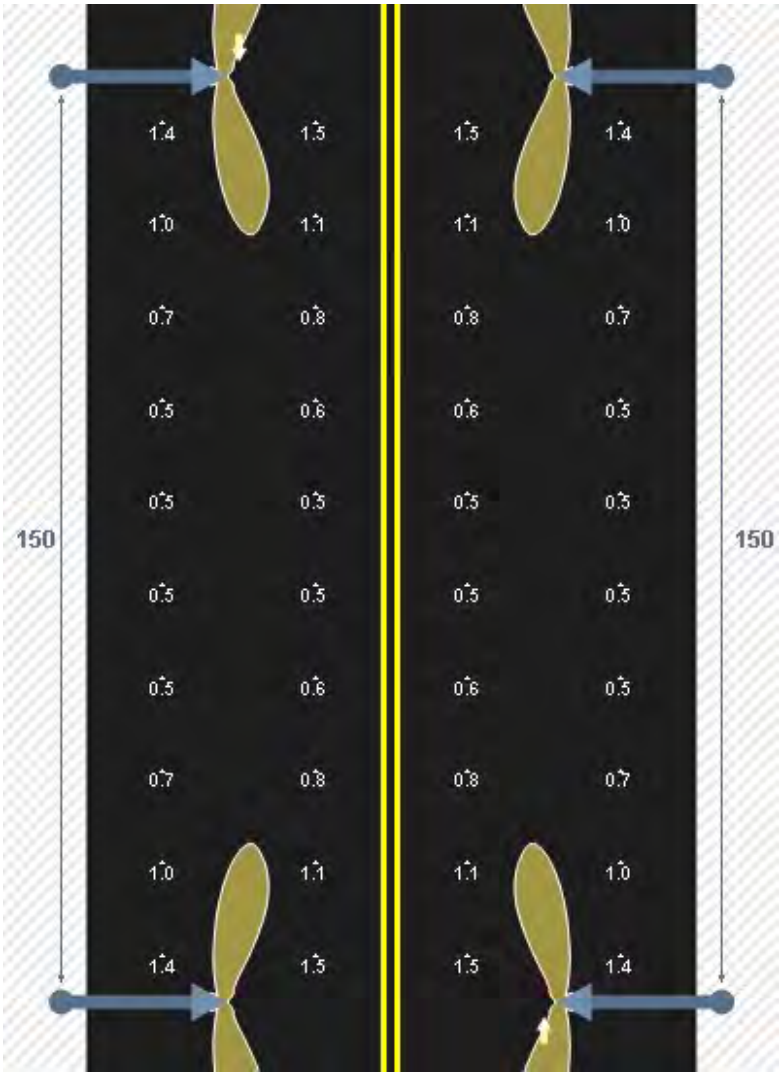

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.5	0.5	fc
Ave/Min:	1.8	1.8	
Max/Min:	3.2	3.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Project Description

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Company Name
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Your Email

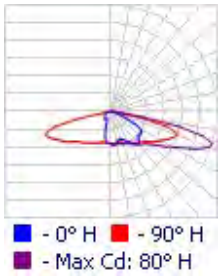
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	72.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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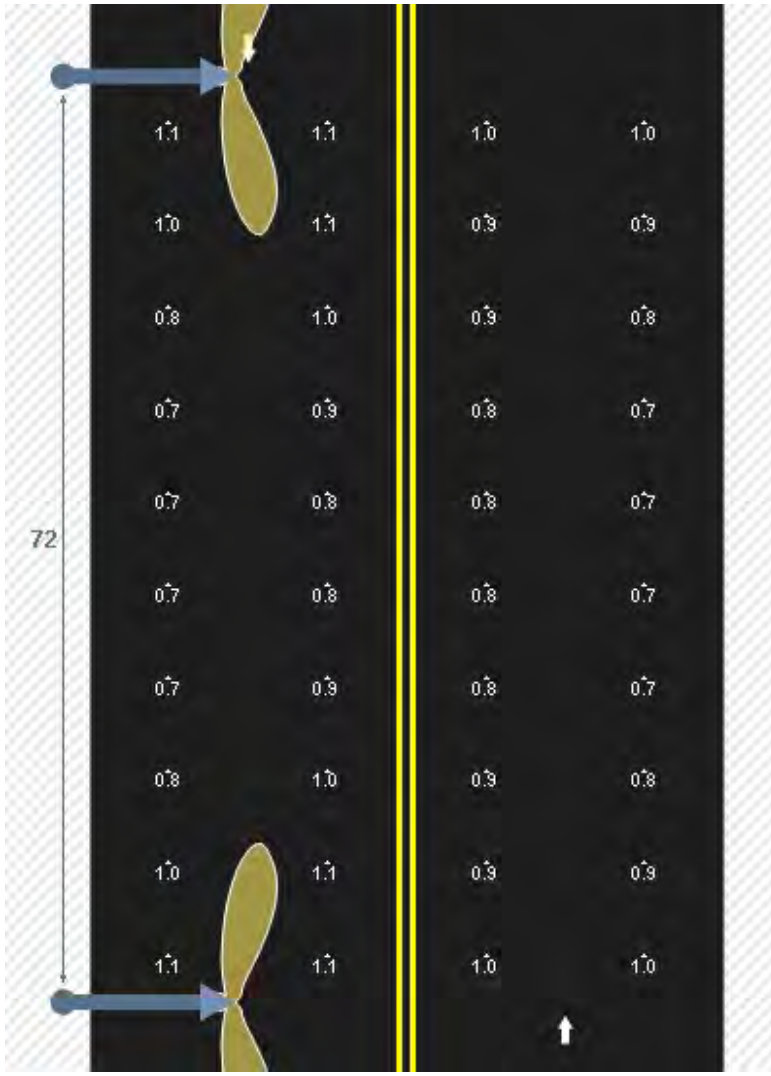

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	0.8	0.6	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	
Lv Ratio:	0.1	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.2	
Max/Min:	1.6	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

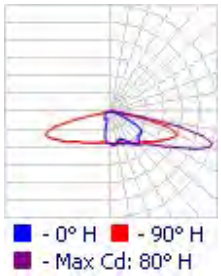
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

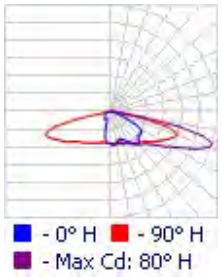
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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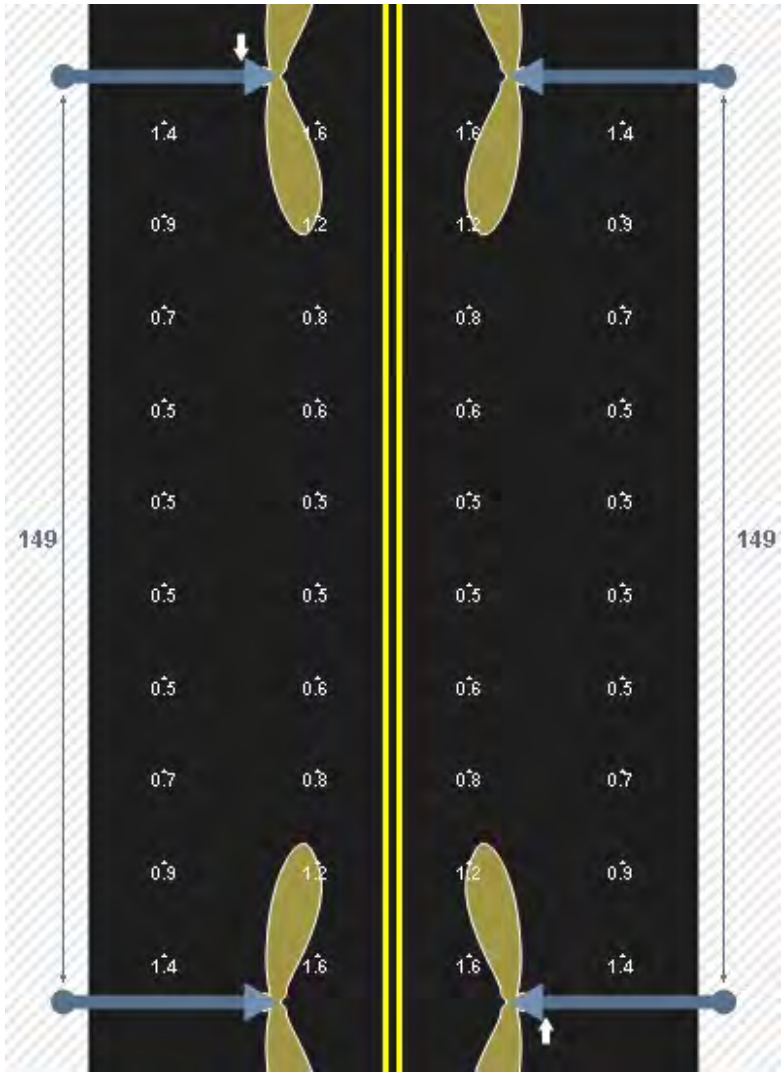

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.5	0.5	fc
Ave/Min:	1.9	1.9	
Max/Min:	3.5	3.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

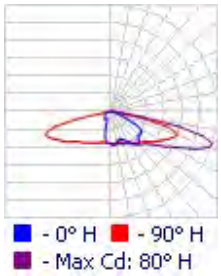
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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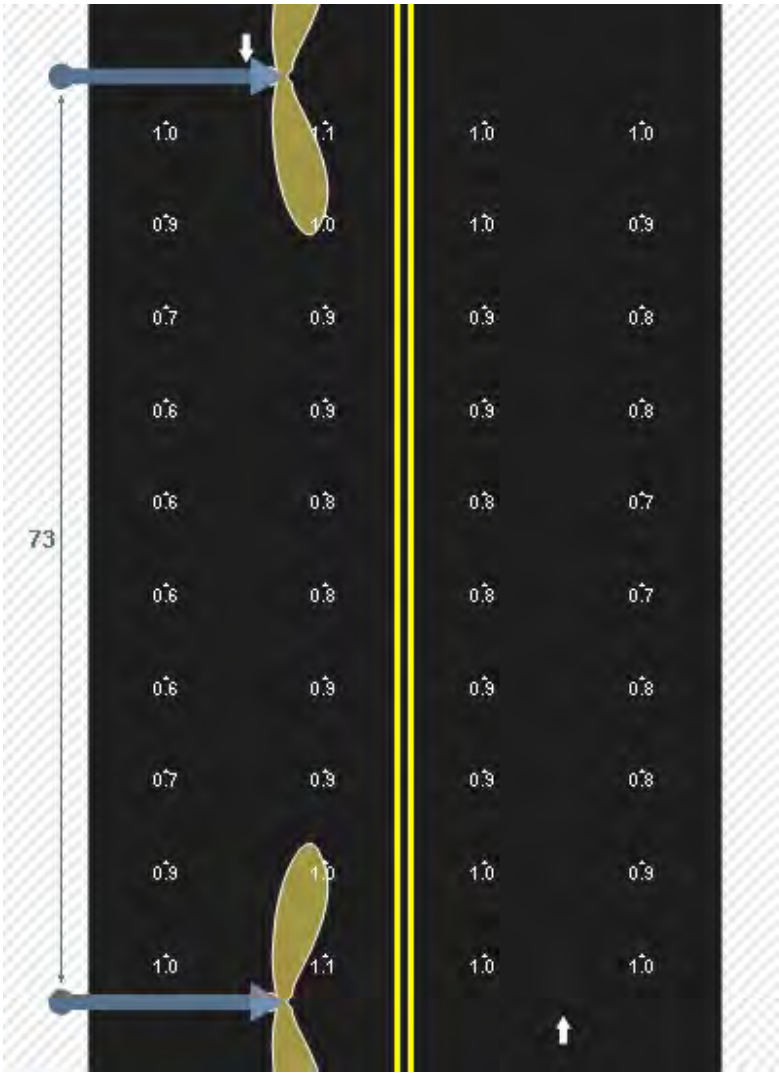

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.9	0.8	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.6	0.8	fc
Ave/Min:	1.4	1.2	
Max/Min:	1.9	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

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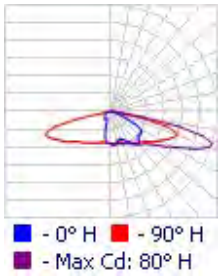
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

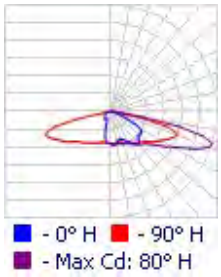
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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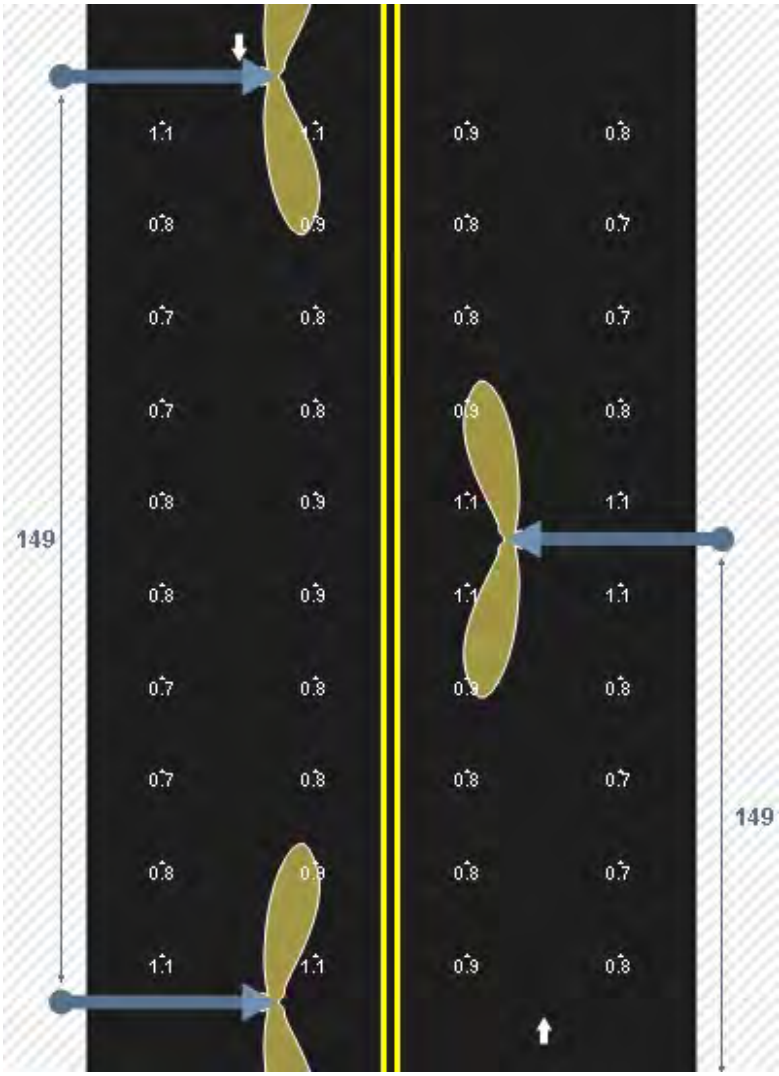

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

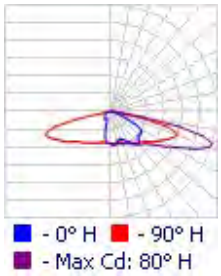
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

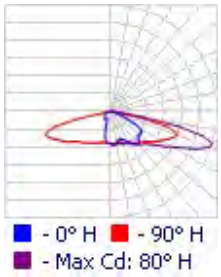
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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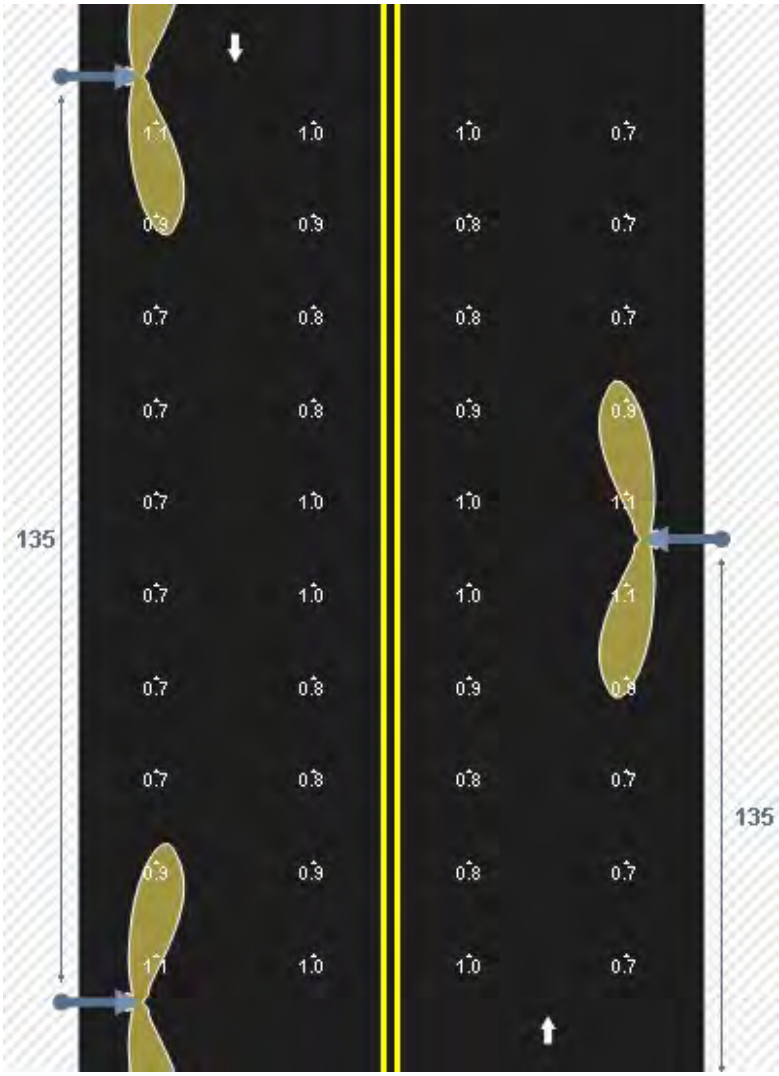

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

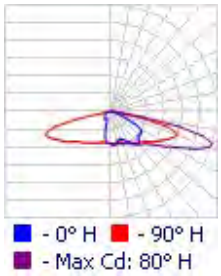
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

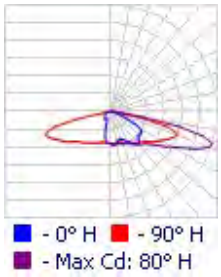
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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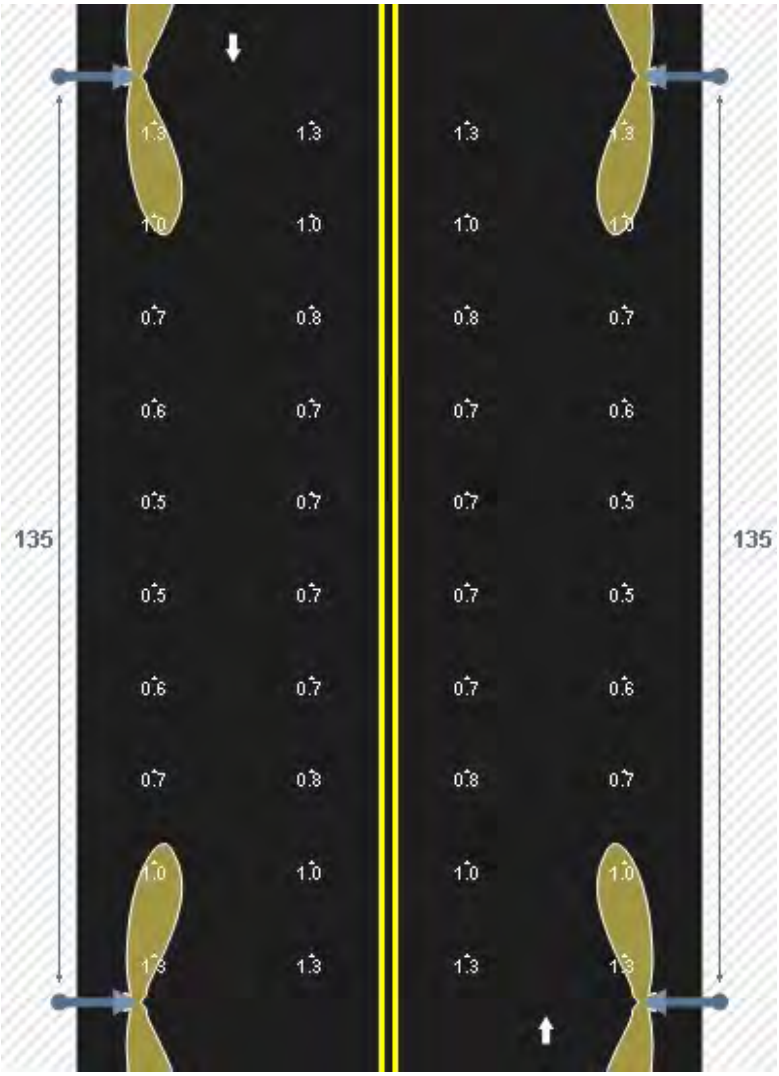

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.3	1.3	fc
Min	0.5	0.5	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.5	2.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

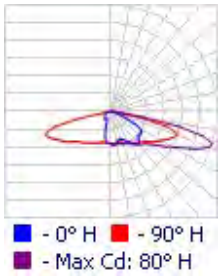
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	57.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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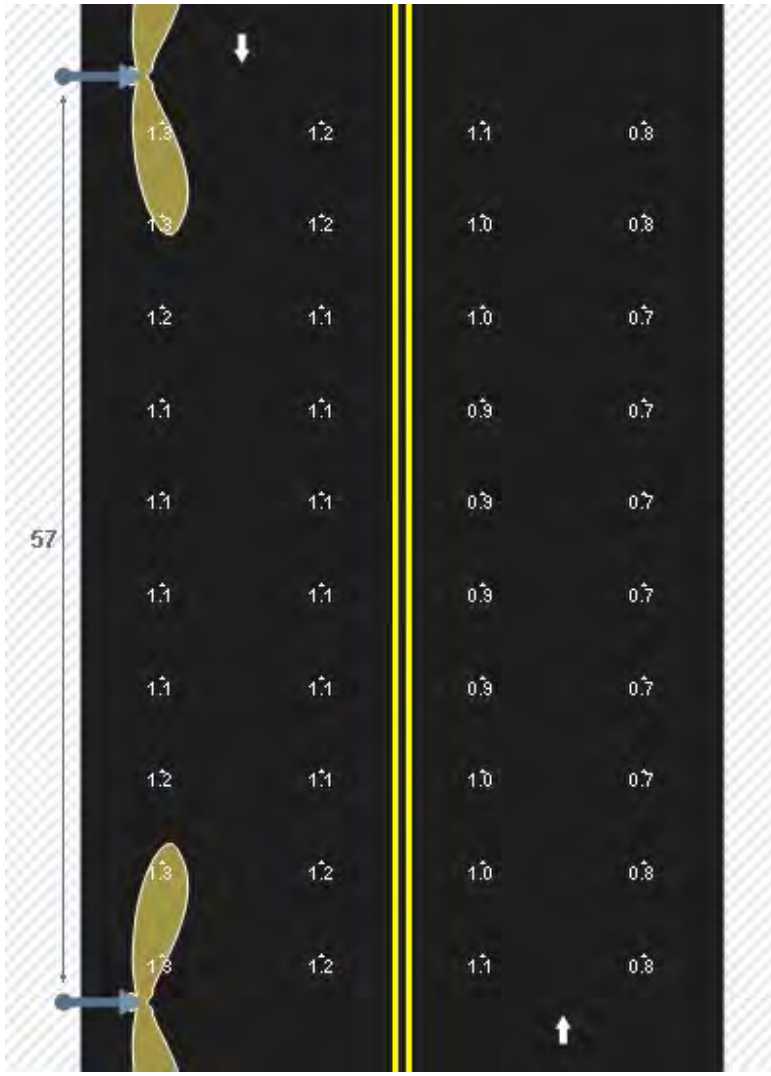

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	0.6	cd/m²
Max:	1.3	0.9	cd/m²
Min	1.1	0.5	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.8	
Lv Ratio:	0.1	0.2	
STV:	0.7	2	

Illuminance	Left	Right	
Average:	1.2	0.9	fc
Max:	1.3	1.1	fc
Min	1.1	0.7	fc
Ave/Min:	1.1	1.3	
Max/Min:	1.3	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

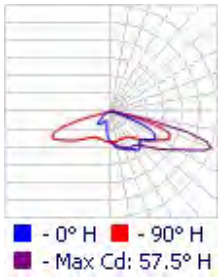
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

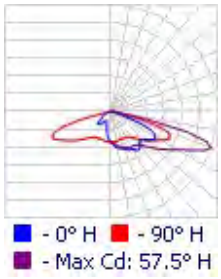
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	179.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	179.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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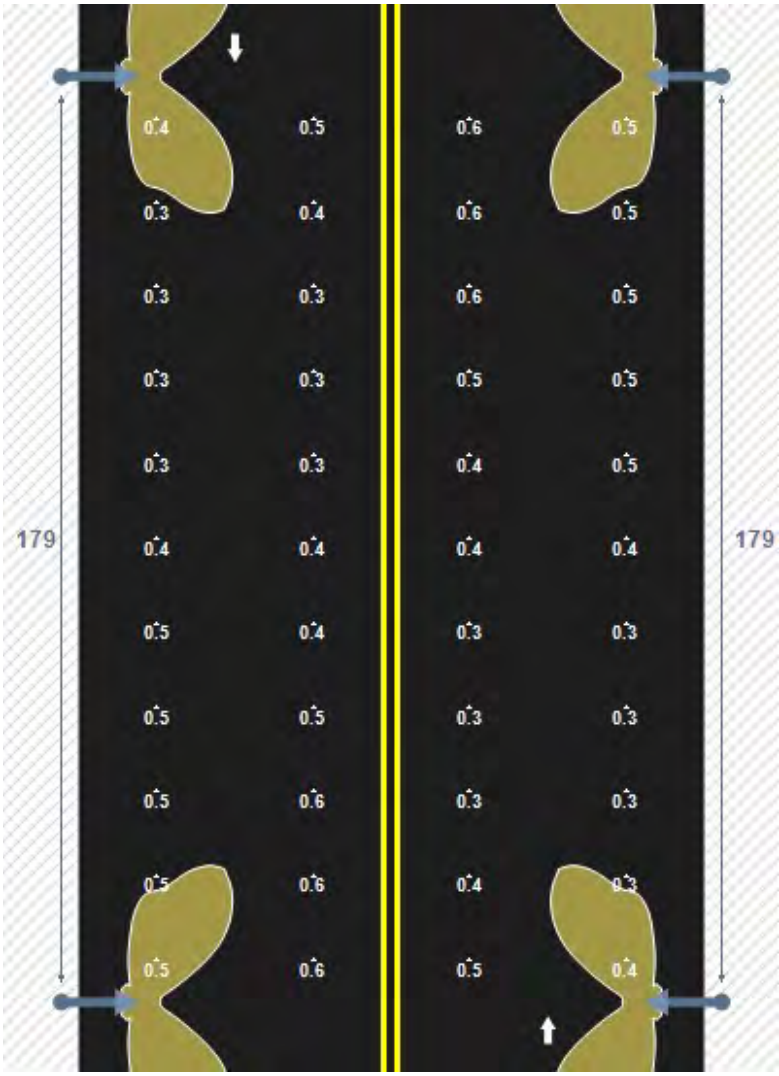
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.4	0.4	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.6	0.6	cd/m²	Max:	1.3	1.3	fc	Min	--	--	fc
Min	0.3	0.3	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.5	1.5		Ave/Min:	2.9	2.9		Ev Min:	--	--	fc
Max/Min:	2.1	2.1		Max/Min:	6.7	6.7		**Bikelane**			
Lv Ratio:	0.2	0.2						Average:	--	--	fc
STV:	3.3	3.3						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

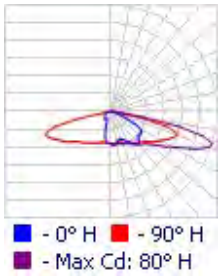
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

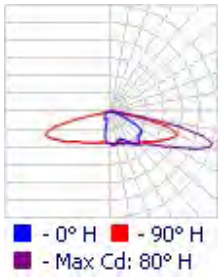
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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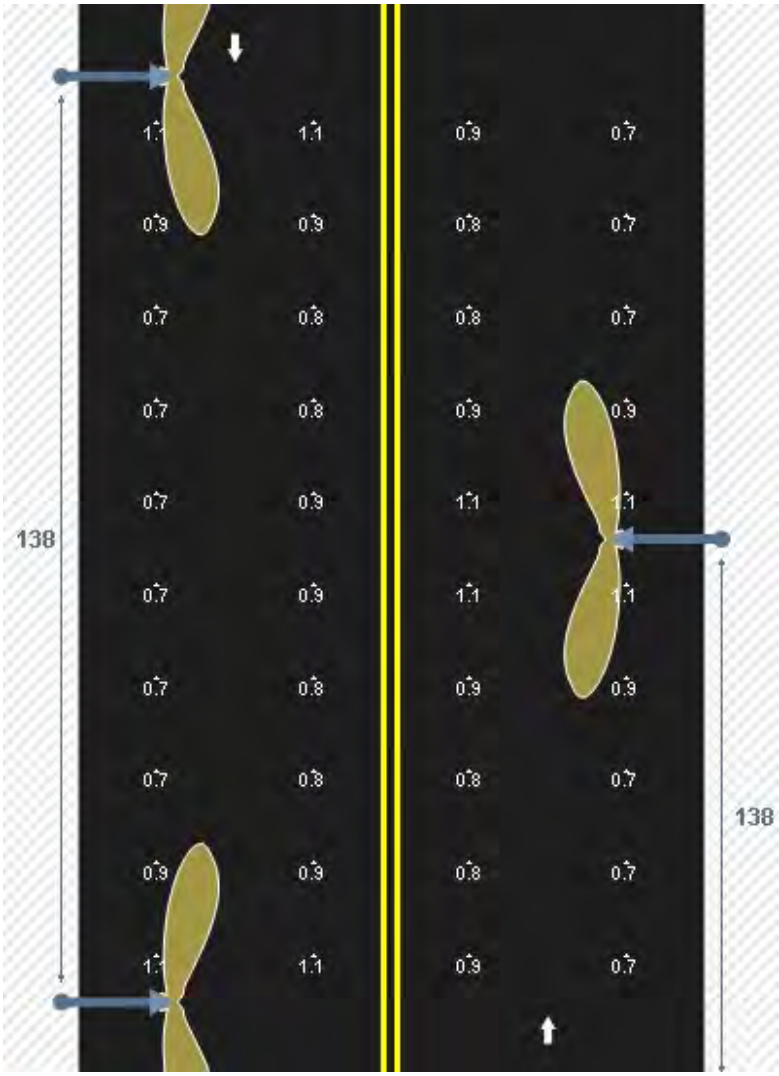
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

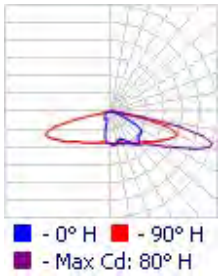
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

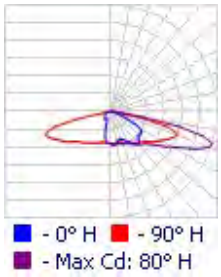
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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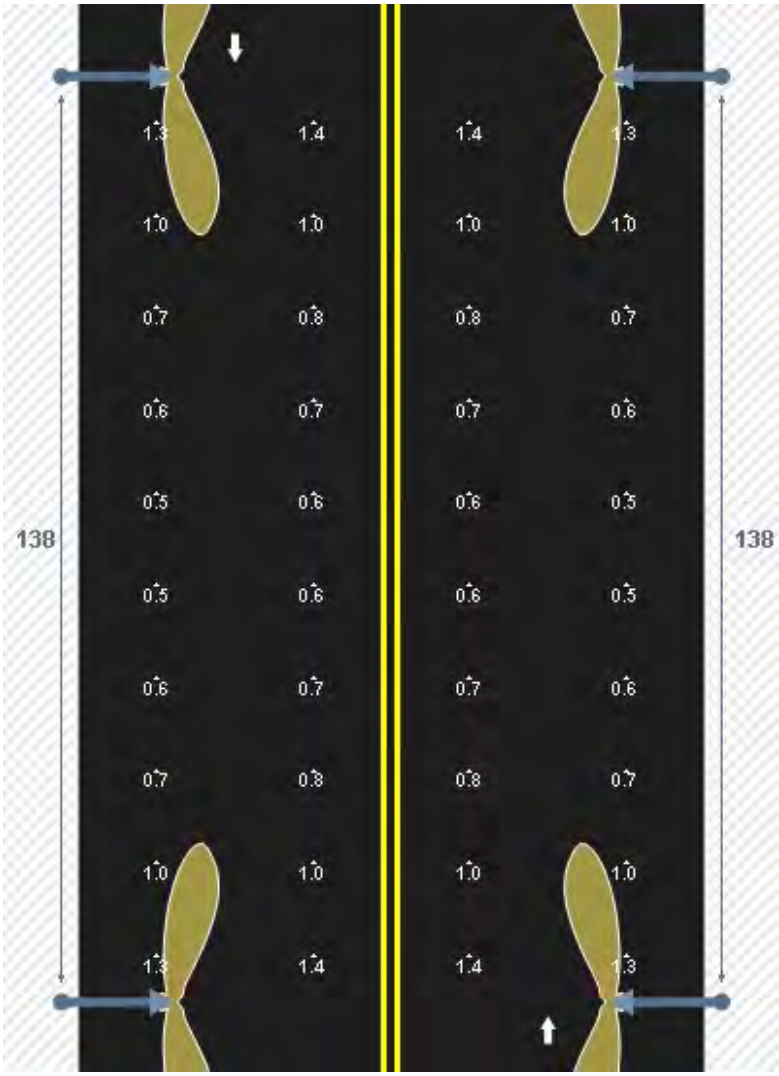

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.3	0.3	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.7	2.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 27, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

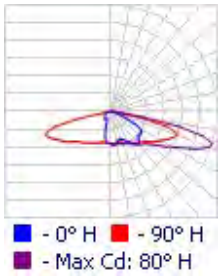
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

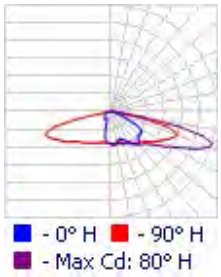
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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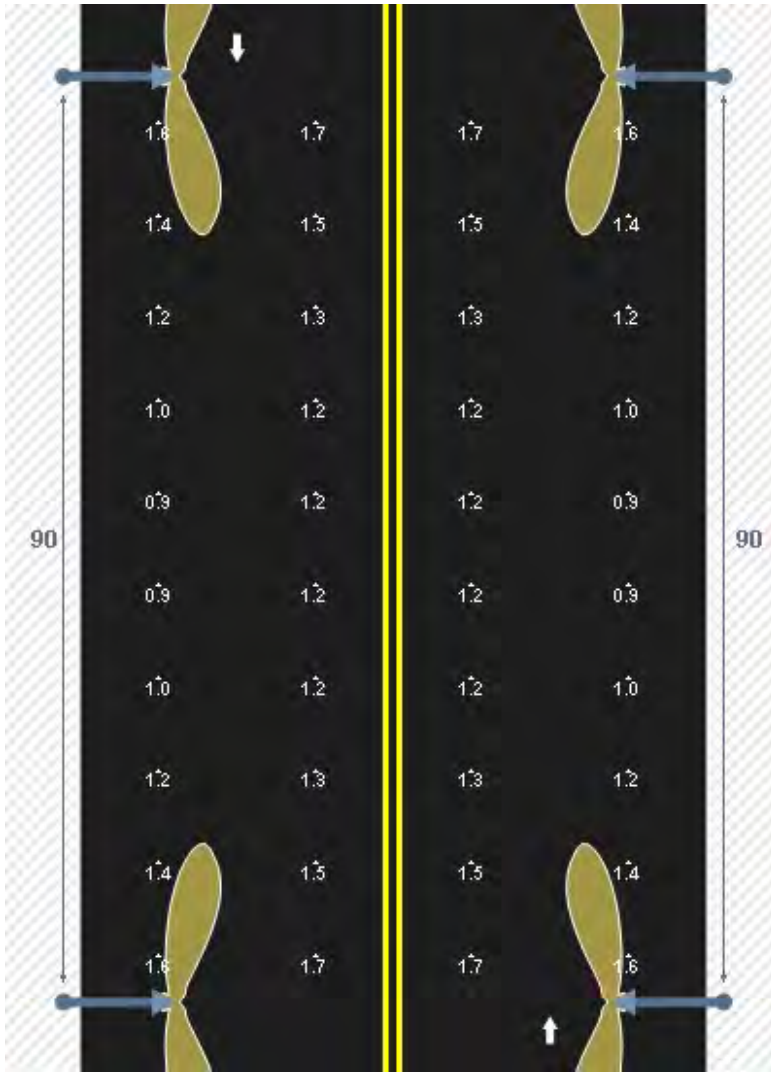
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.3	1.3	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.3	1.3	fc
Max:	1.7	1.7	fc
Min	0.9	0.9	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

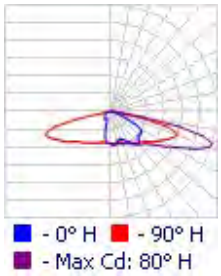
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	60.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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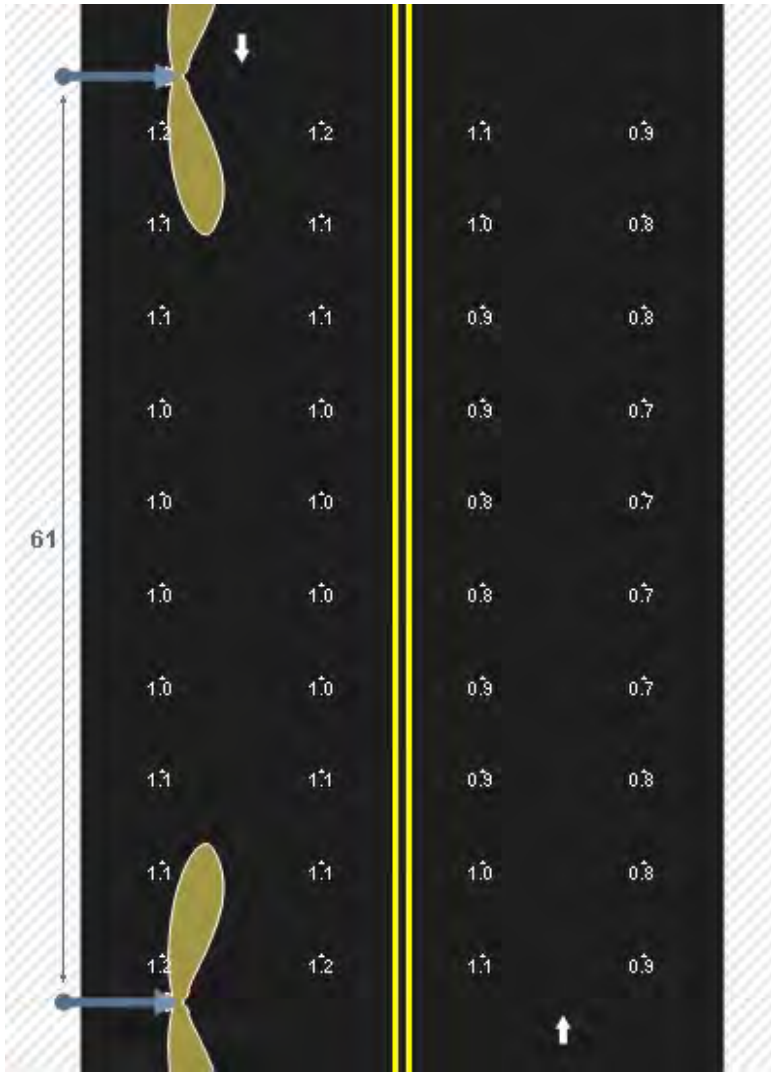
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	0.7	cd/m²
Max:	1.2	0.9	cd/m²
Min	1.1	0.5	cd/m²
Ave/Min:	1	1.4	
Max/Min:	1.1	2	
Lv Ratio:	0.1	0.2	
STV:	0.7	1.8	

Illuminance	Left	Right	
Average:	1.1	0.9	fc
Max:	1.2	1.1	fc
Min	1	0.7	fc
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

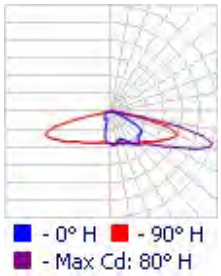
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

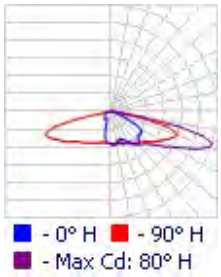
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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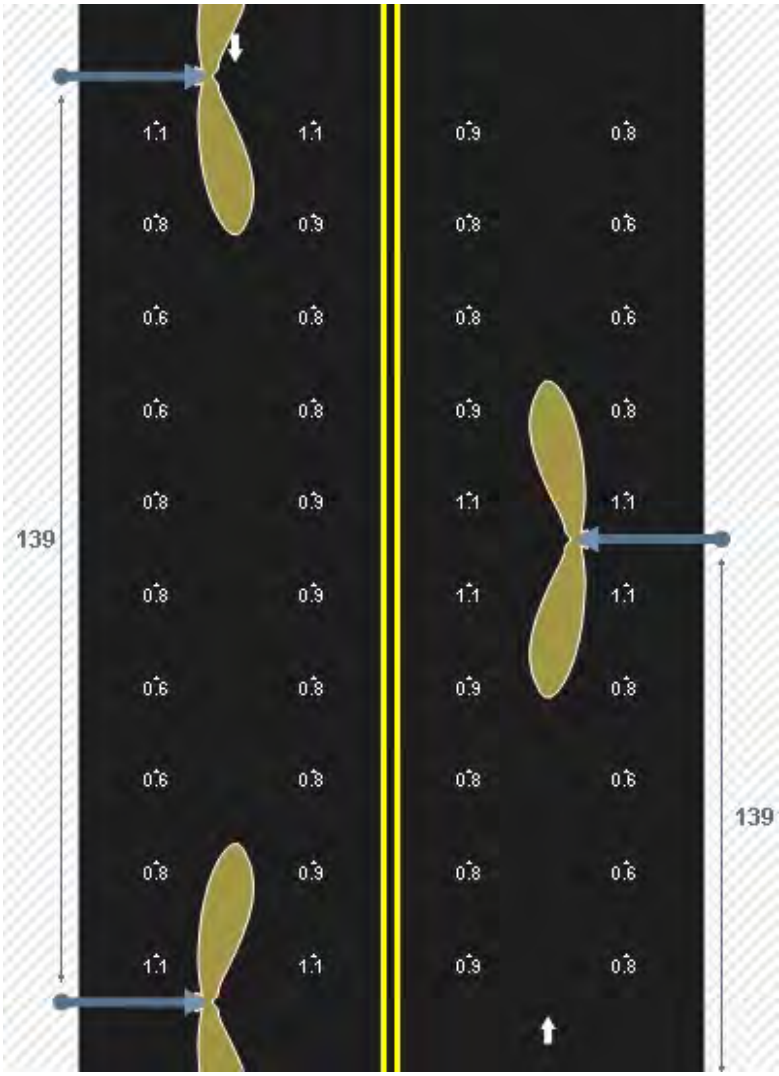
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

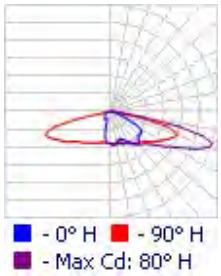
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

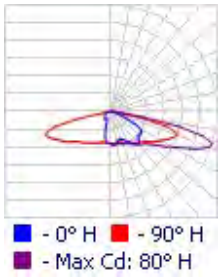
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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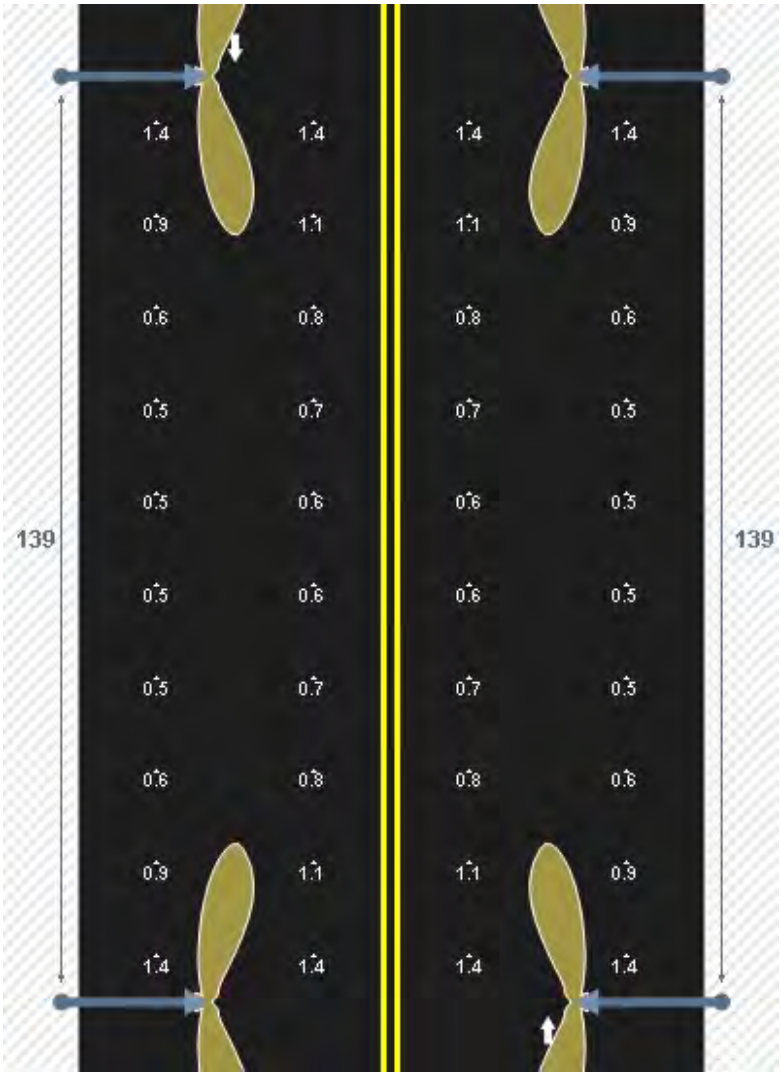

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.3	0.3	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.9	2.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

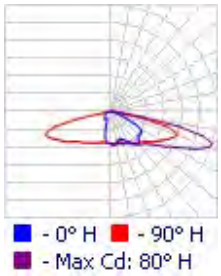
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	63.88 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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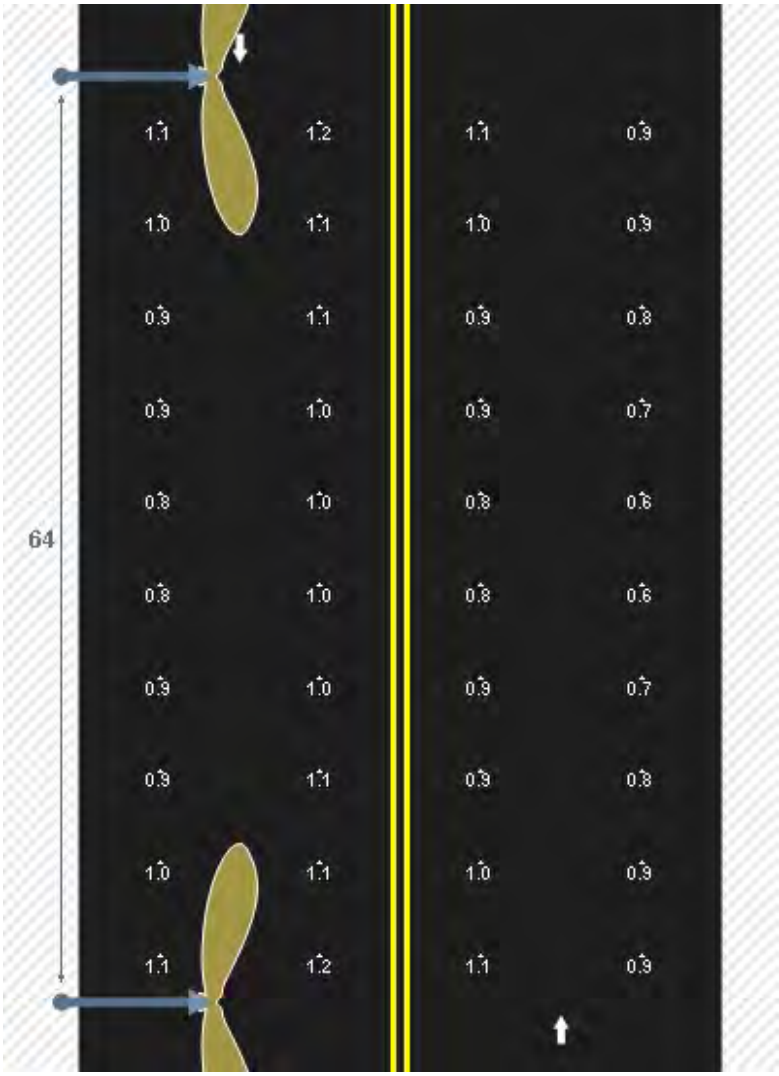

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	0.7	cd/m²
Max:	1.1	1	cd/m²
Min	0.9	0.5	cd/m²
Ave/Min:	1.1	1.4	
Max/Min:	1.2	2	
Lv Ratio:	0.1	0.2	
STV:	0.7	1.5	

Illuminance	Left	Right	
Average:	1	0.9	fc
Max:	1.2	1.1	fc
Min	0.8	0.7	fc
Ave/Min:	1.2	1.3	
Max/Min:	1.5	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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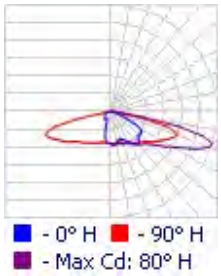
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

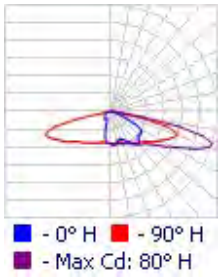
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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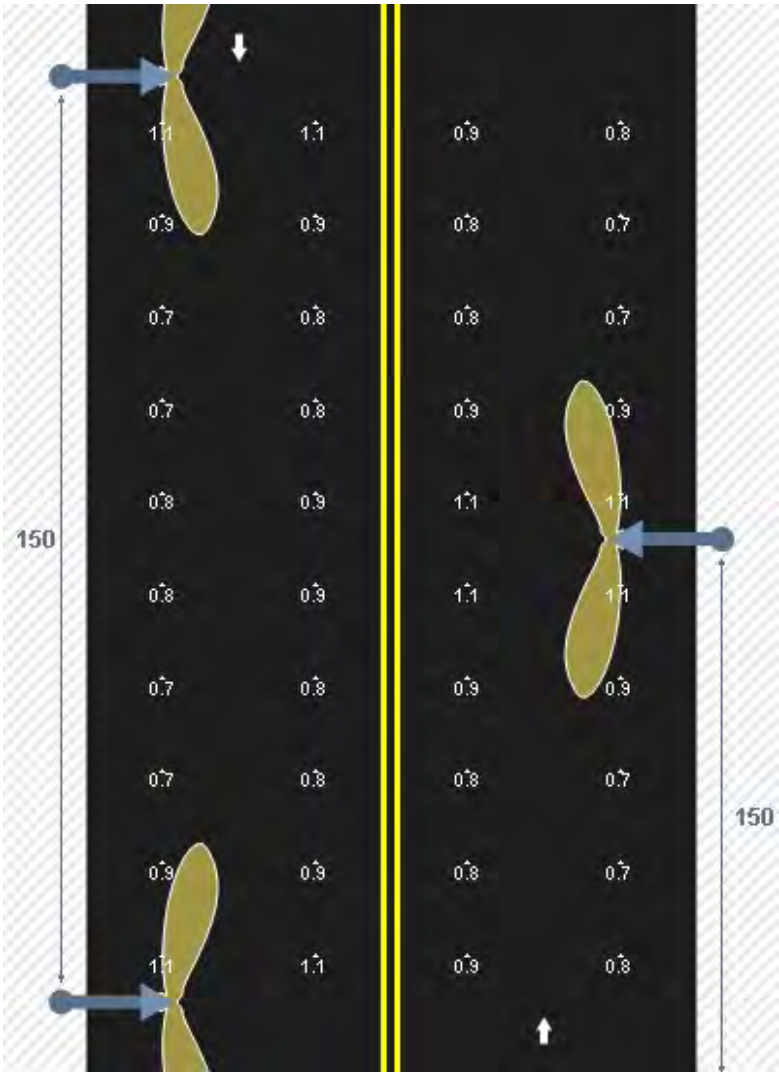

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

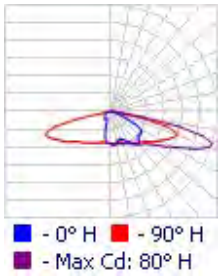
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

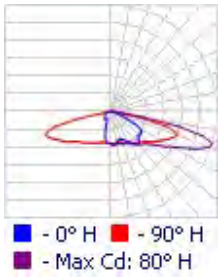
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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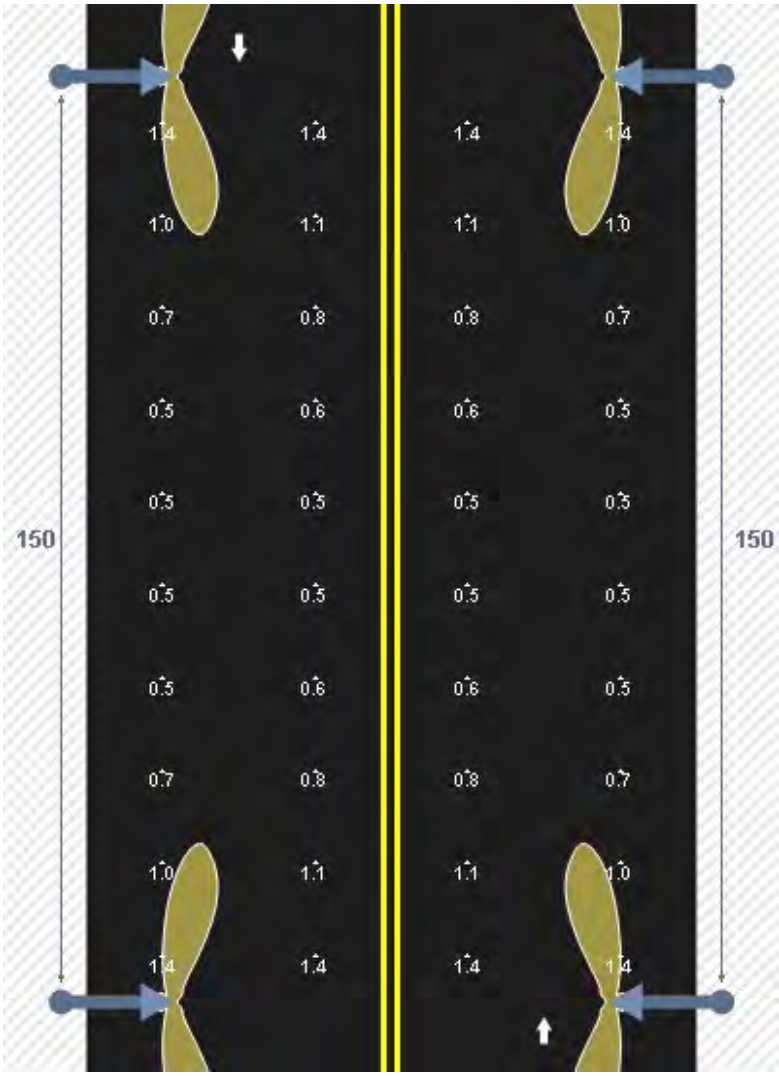

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.3	0.3	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.8	1.8	
Max/Min:	3	3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

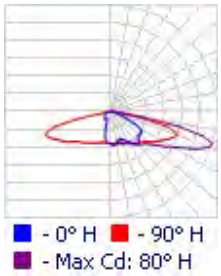
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	70.34 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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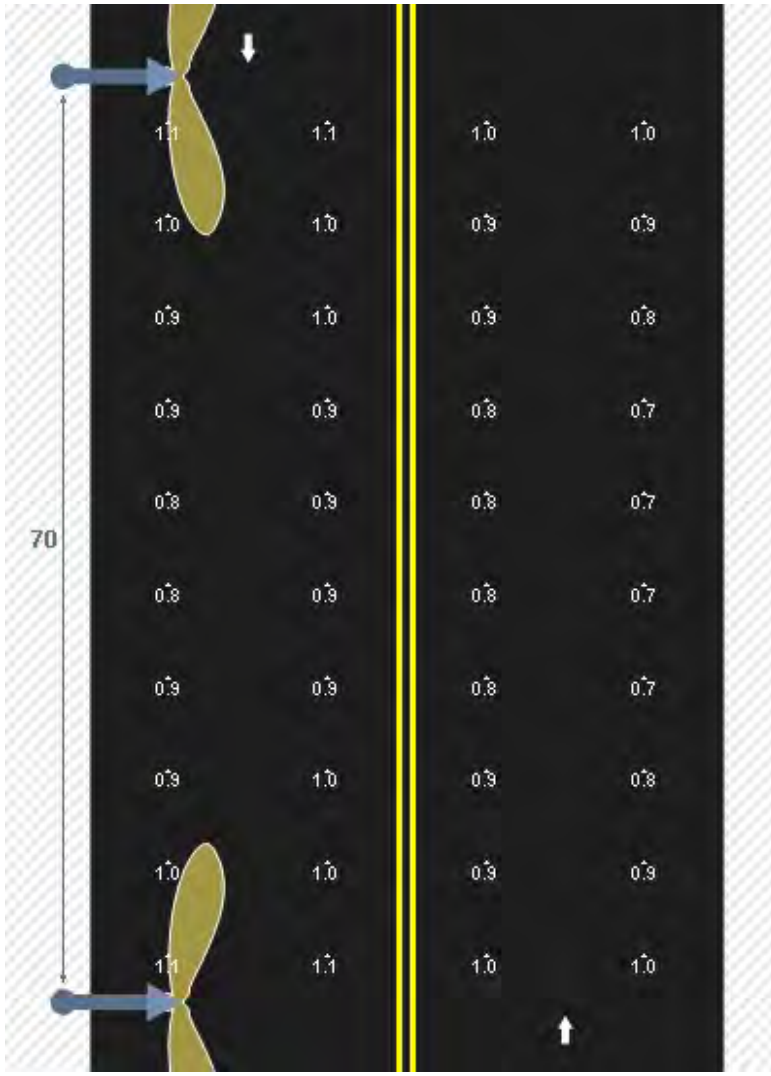

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	1	0.6	cd/m²
Ave/Min:	1	1.3	
Max/Min:	1.1	1.6	
Lv Ratio:	0.1	0.2	
STV:	0.8	1	

Illuminance	Left	Right	
Average:	1	0.9	fc
Max:	1.1	1	fc
Min	0.8	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

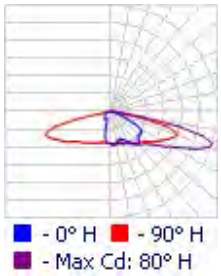
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

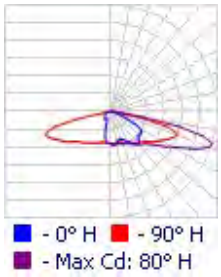
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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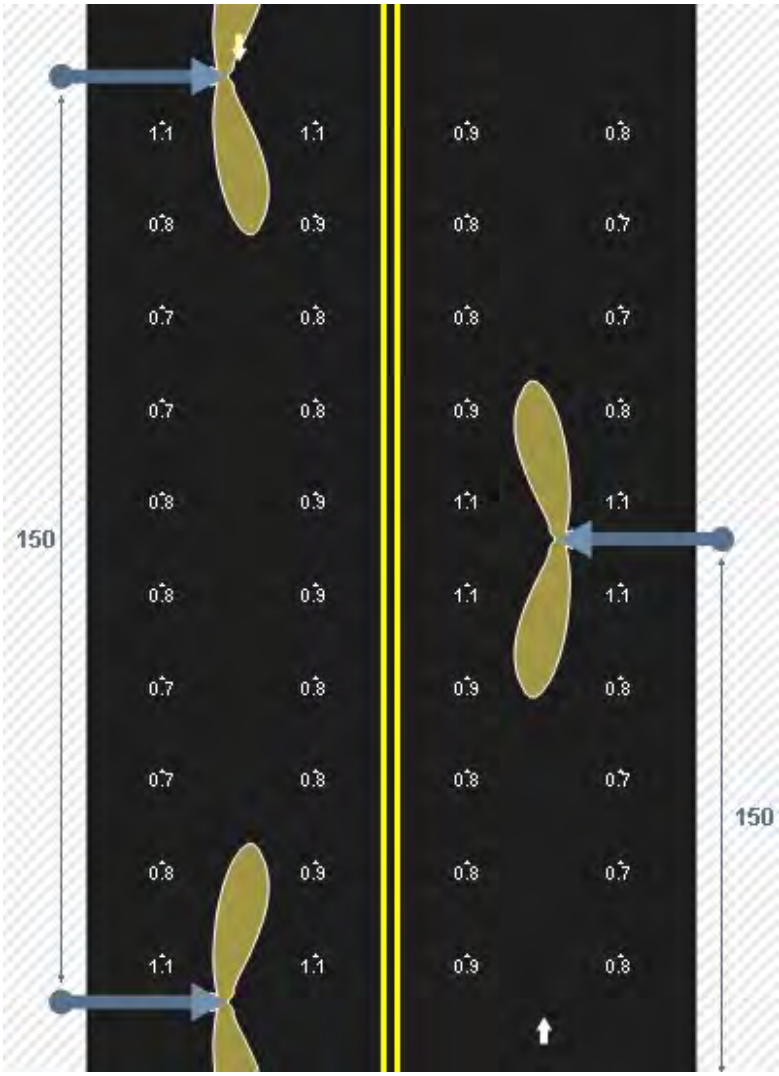

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

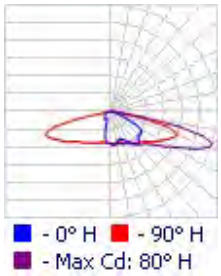
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

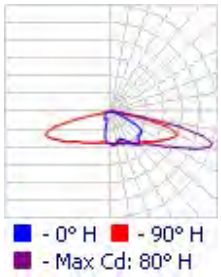
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	149.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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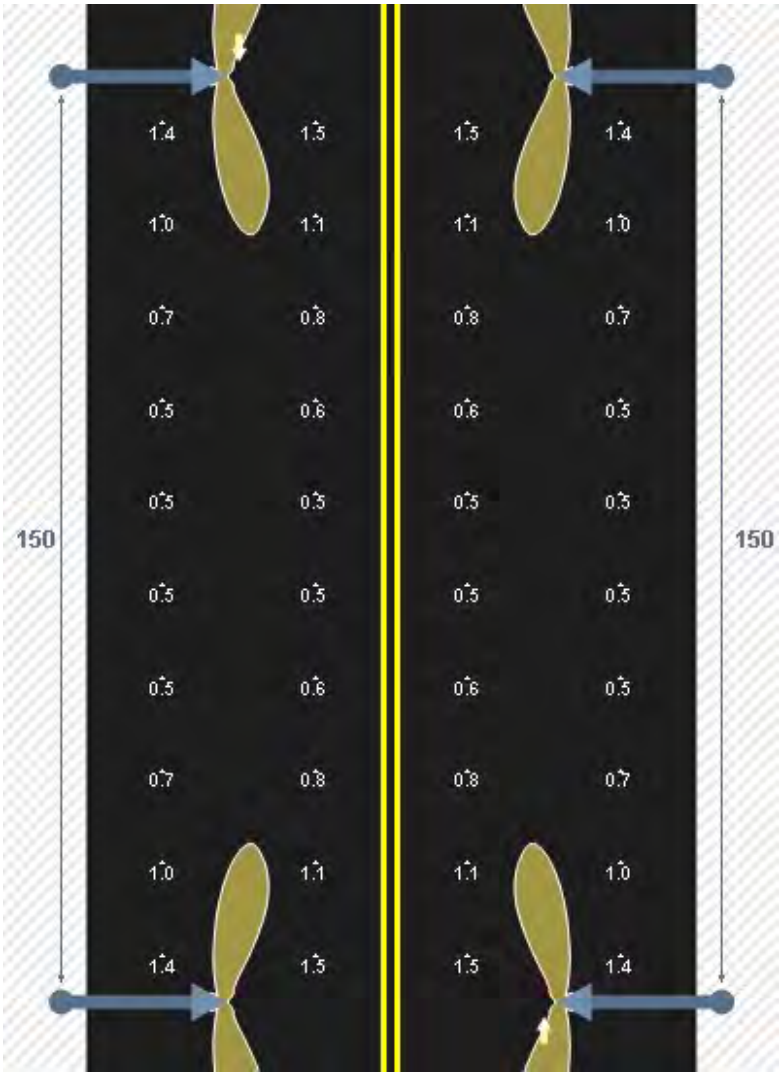

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.5	0.5	fc
Ave/Min:	1.8	1.8	
Max/Min:	3.2	3.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

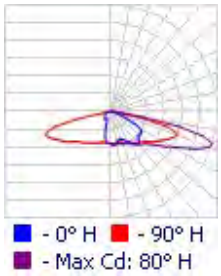
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	72.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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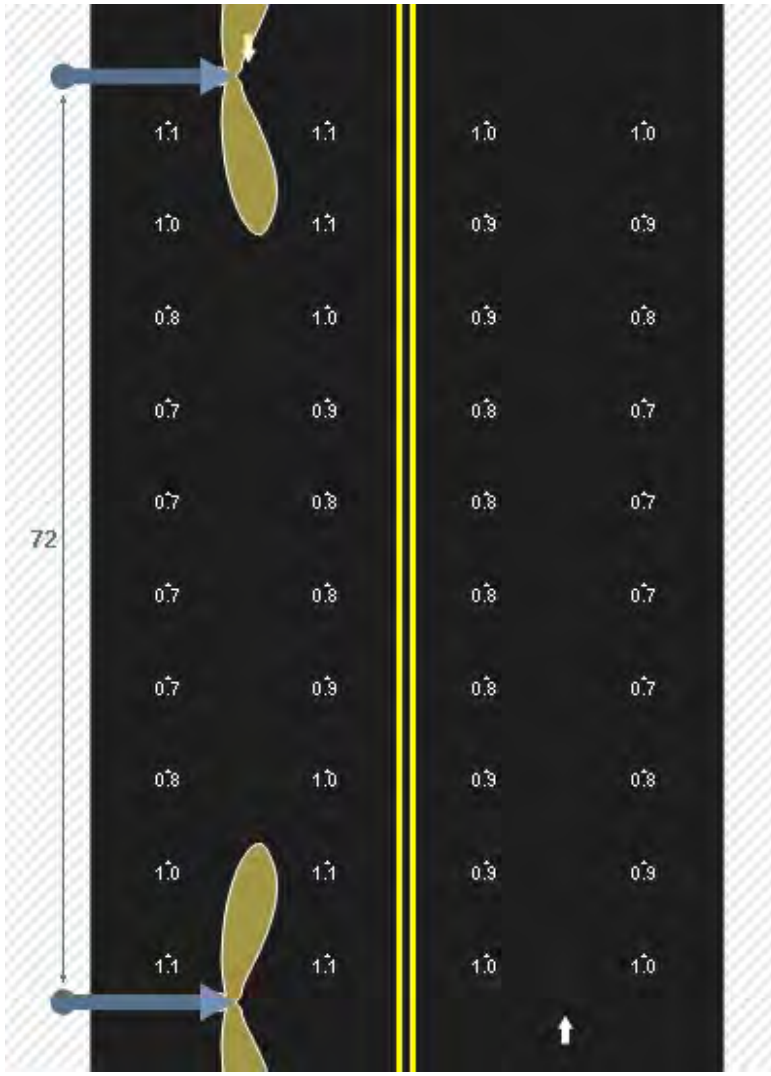

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	0.8	0.6	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	
Lv Ratio:	0.1	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.2	
Max/Min:	1.6	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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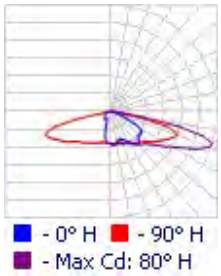
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

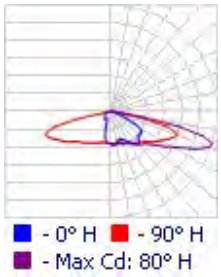
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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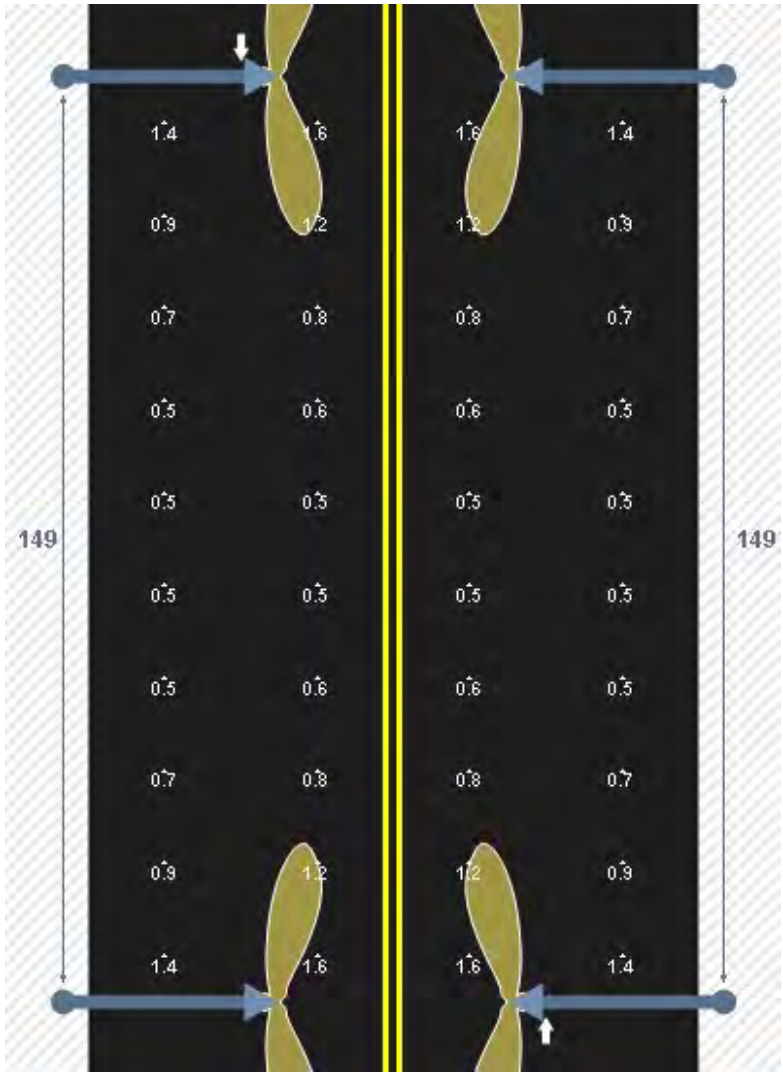

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	2	2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.5	0.5	fc
Ave/Min:	1.9	1.9	
Max/Min:	3.5	3.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

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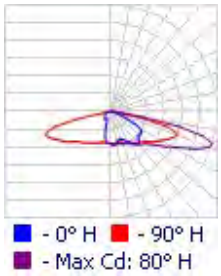
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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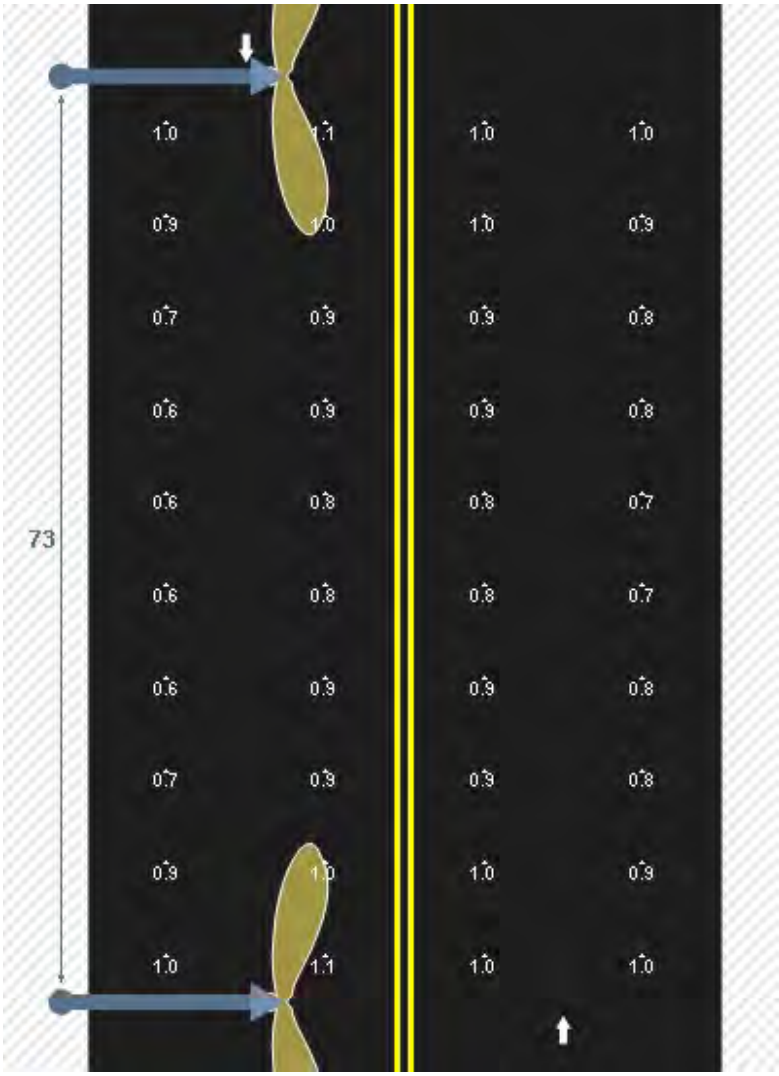

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.9	0.8	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.6	0.8	fc
Ave/Min:	1.4	1.2	
Max/Min:	1.9	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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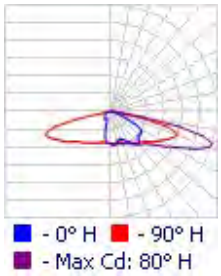
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

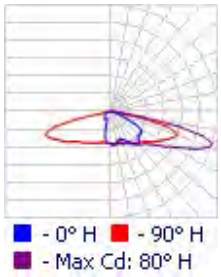
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	148.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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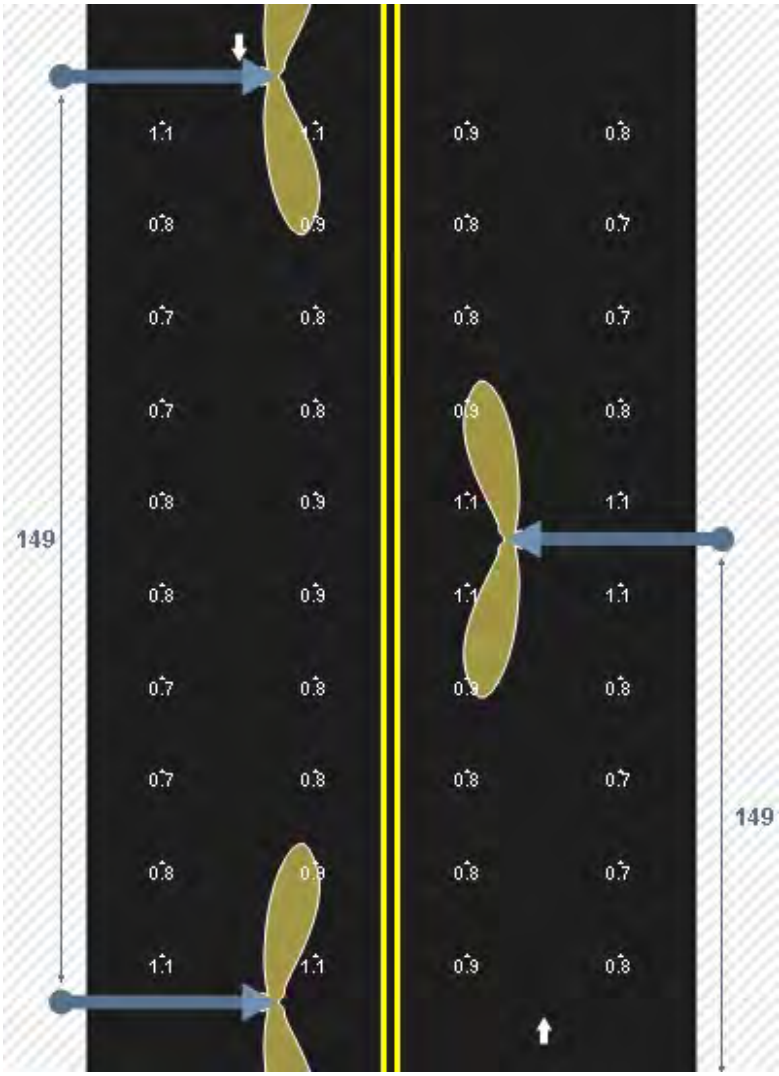

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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Company Name
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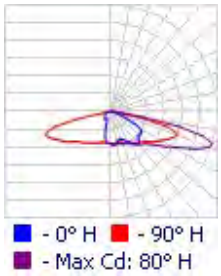
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

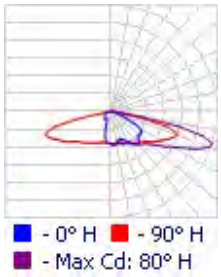
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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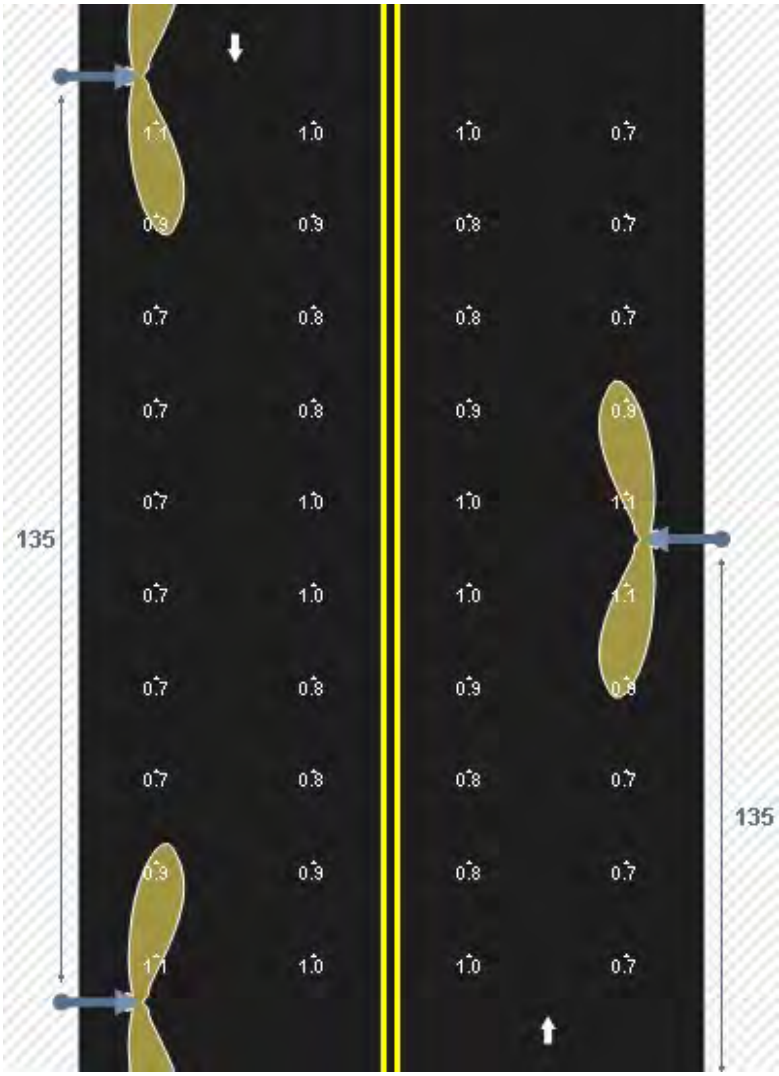

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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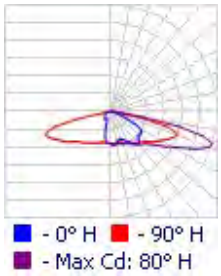
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

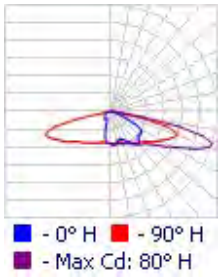
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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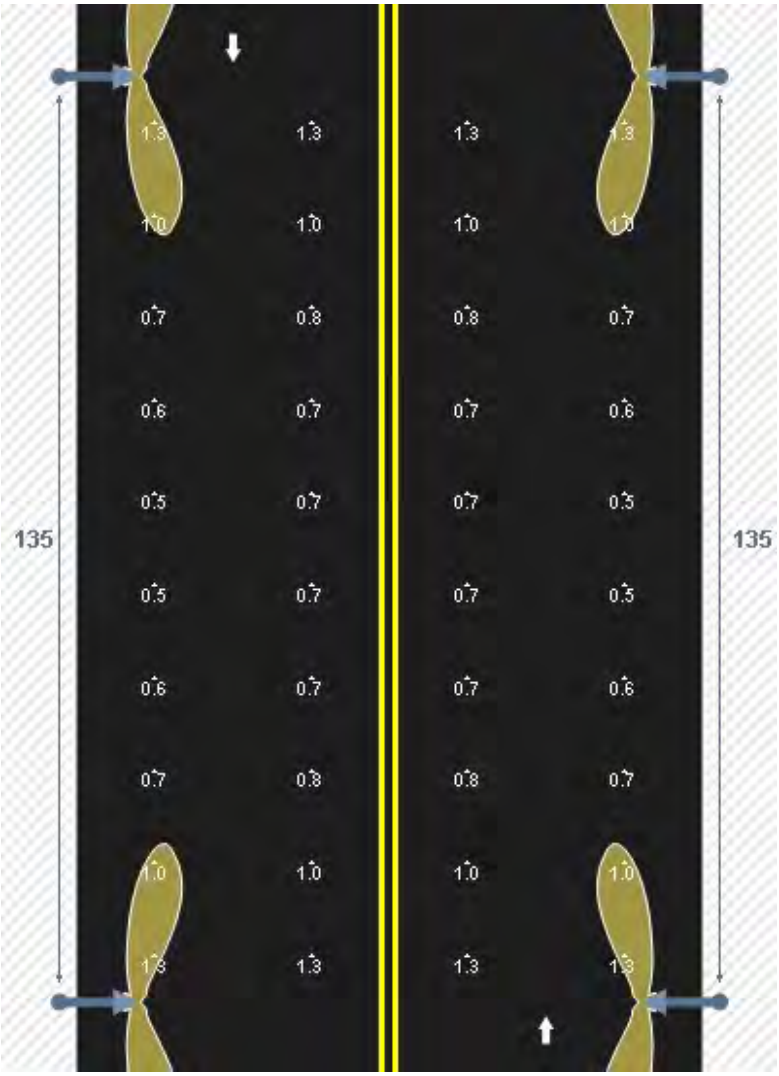

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.3	1.3	fc
Min	0.5	0.5	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.5	2.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

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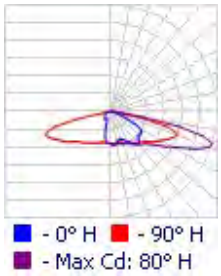
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	57.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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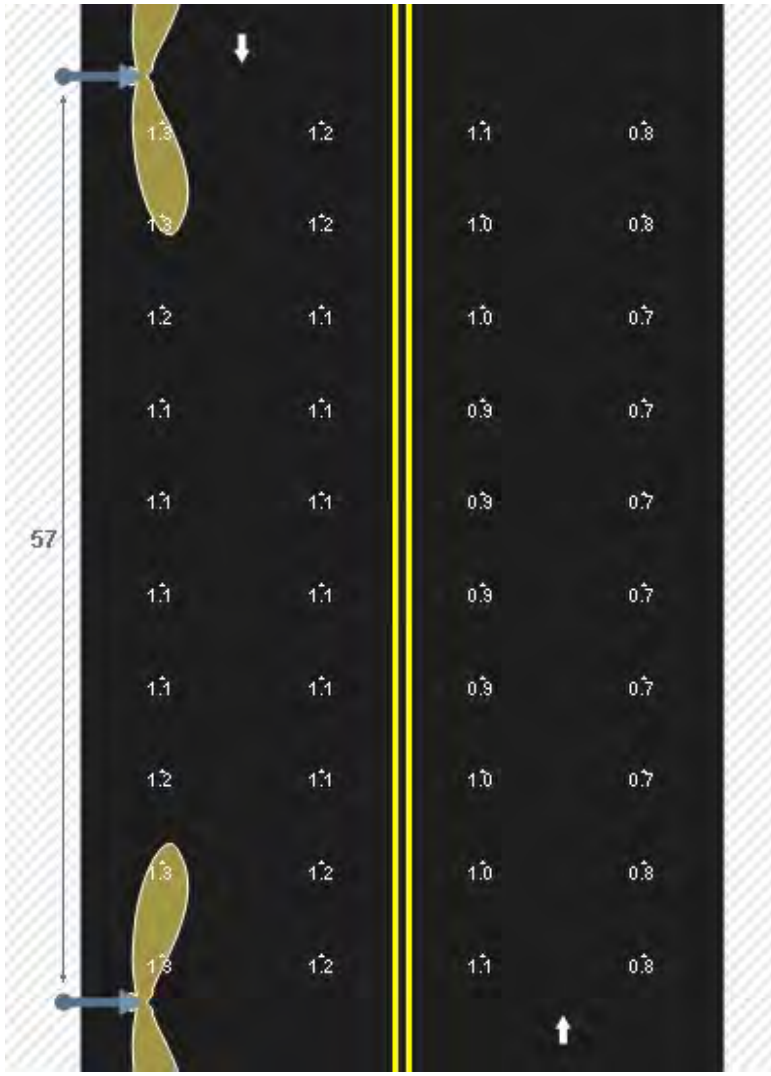

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	0.6	cd/m²
Max:	1.3	0.9	cd/m²
Min	1.1	0.5	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.8	
Lv Ratio:	0.1	0.2	
STV:	0.7	2	

Illuminance	Left	Right	
Average:	1.2	0.9	fc
Max:	1.3	1.1	fc
Min	1.1	0.7	fc
Ave/Min:	1.1	1.3	
Max/Min:	1.3	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 13, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

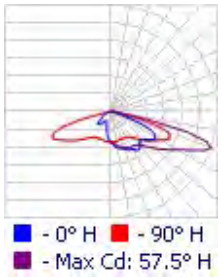
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Freeway A		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

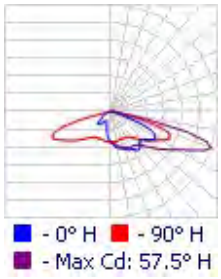
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	179.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	179.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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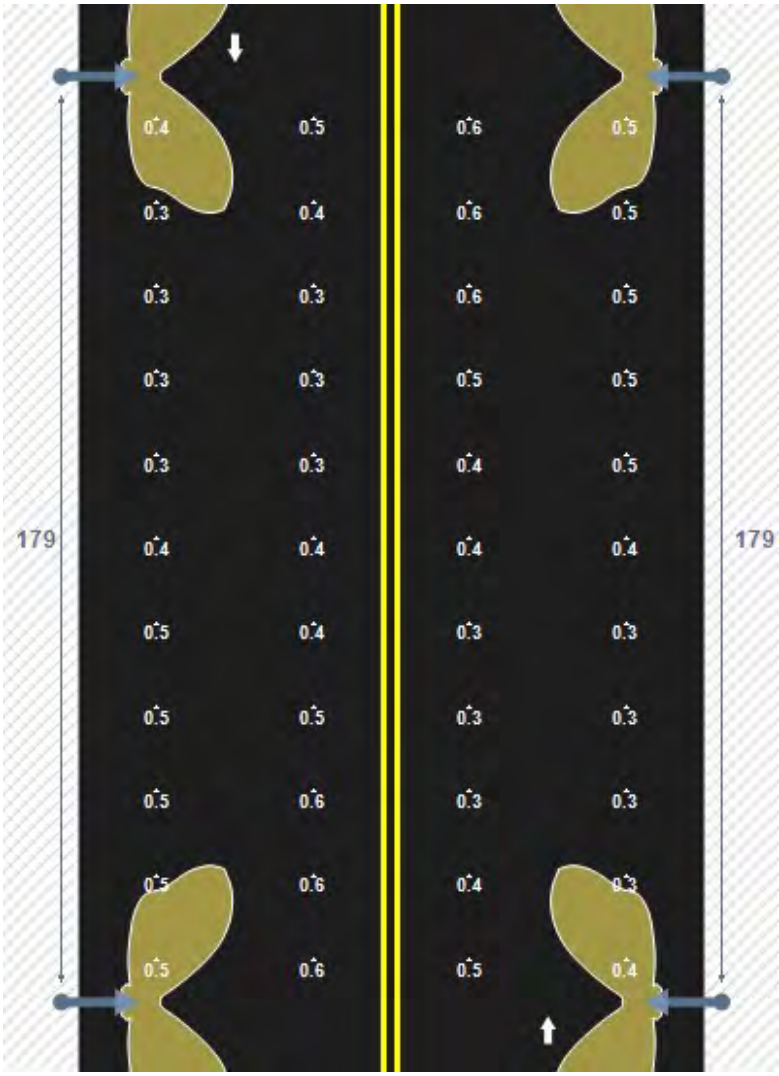
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.4	0.4	cd/m²	Average:	0.6	0.6	fc	Average:	--	--	fc
Max:	0.6	0.6	cd/m²	Max:	1.3	1.3	fc	Min	--	--	fc
Min	0.3	0.3	cd/m²	Min	0.2	0.2	fc	Ave/Min:	--	--	
Ave/Min:	1.5	1.5		Ave/Min:	2.9	2.9		Ev Min:	--	--	fc
Max/Min:	2.1	2.1		Max/Min:	6.7	6.7		**Bikelane**			
Lv Ratio:	0.2	0.2						Average:	--	--	fc
STV:	3.3	3.3						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

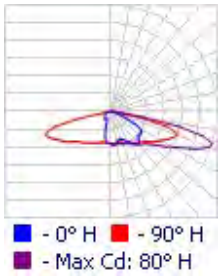
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

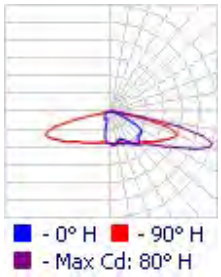
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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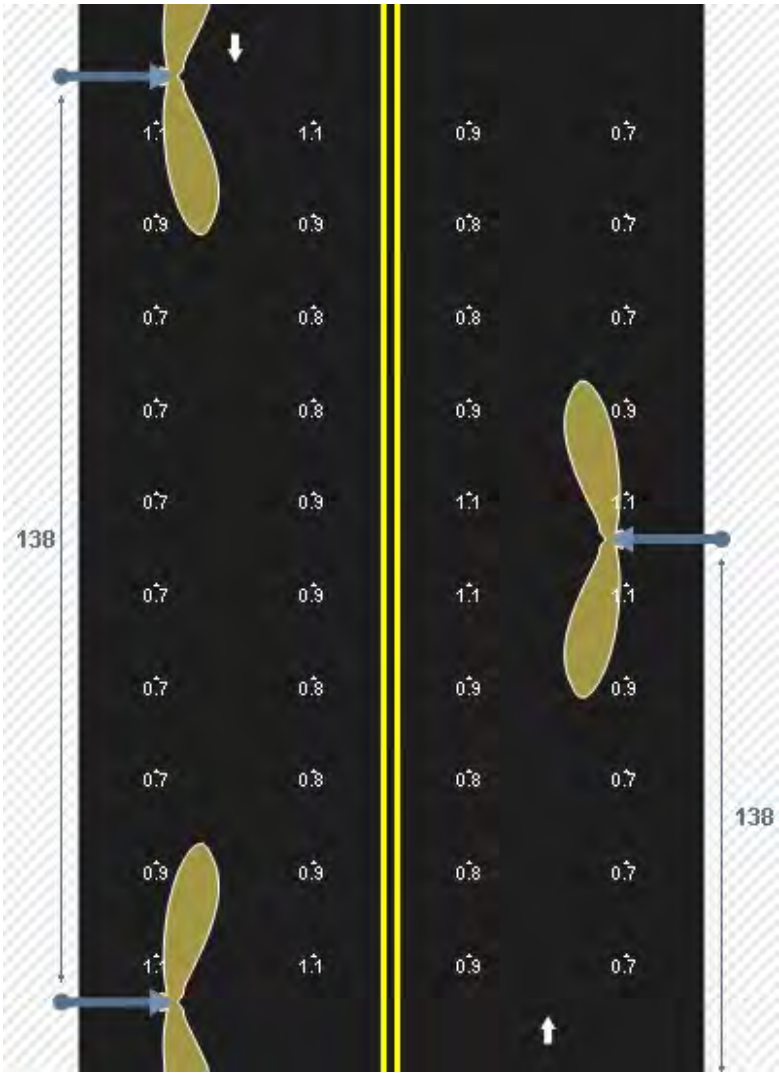

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

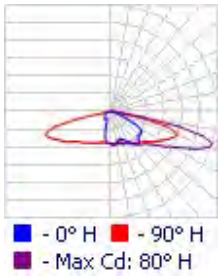
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

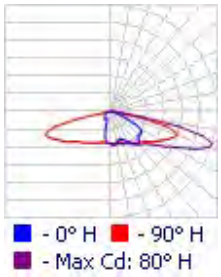
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	137.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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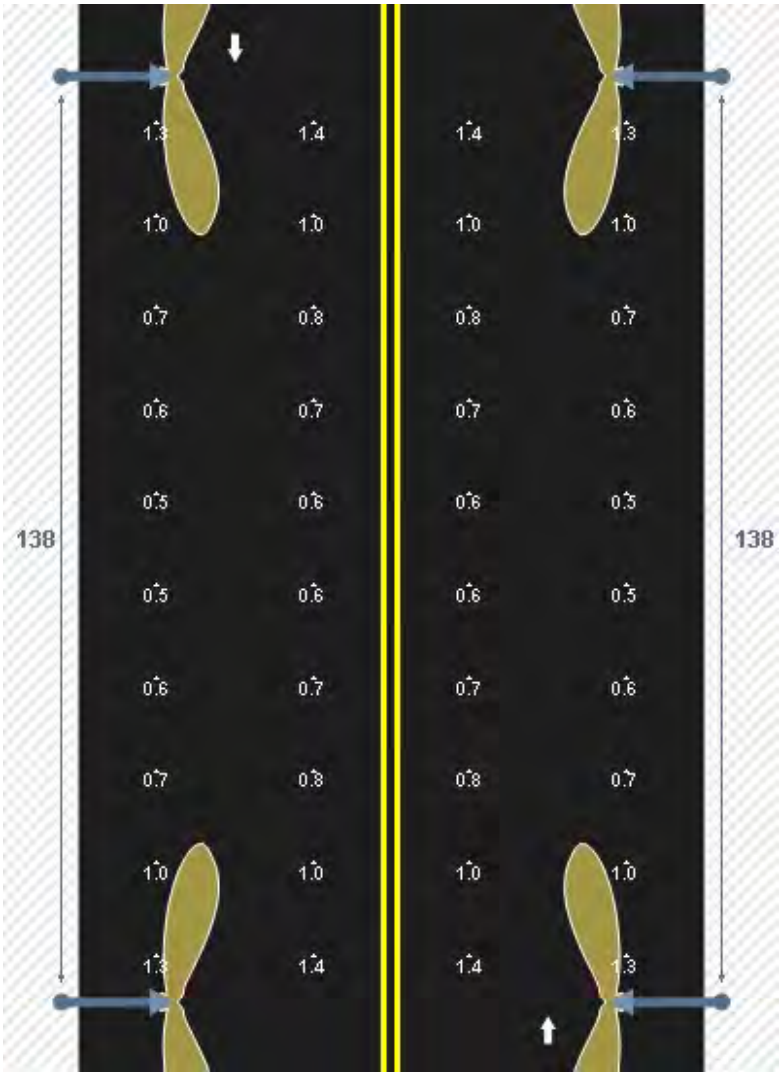

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.3	0.3	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.7	2.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, April 27, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

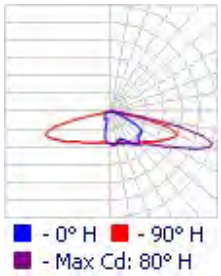
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

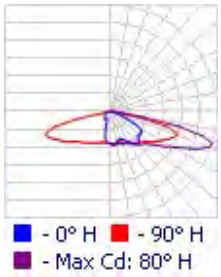
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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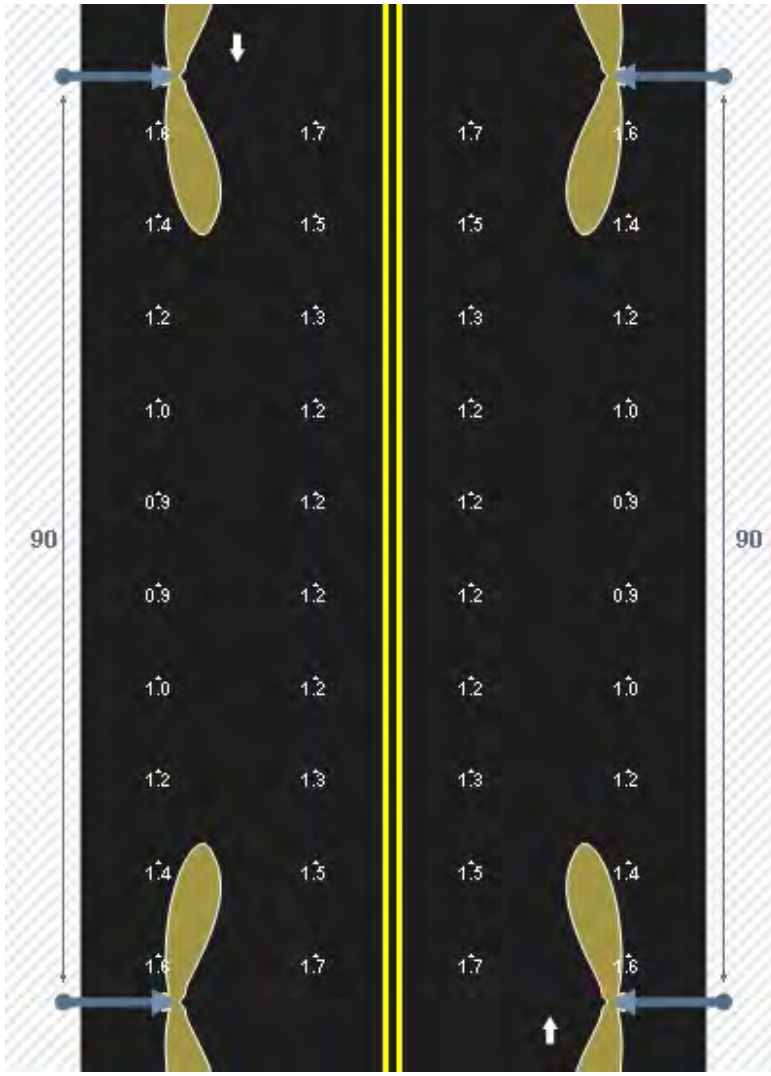
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.3	1.3	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.3	1.3	fc
Max:	1.7	1.7	fc
Min	0.9	0.9	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

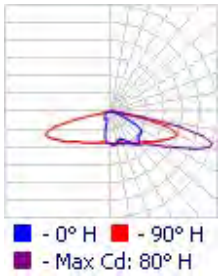
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	60.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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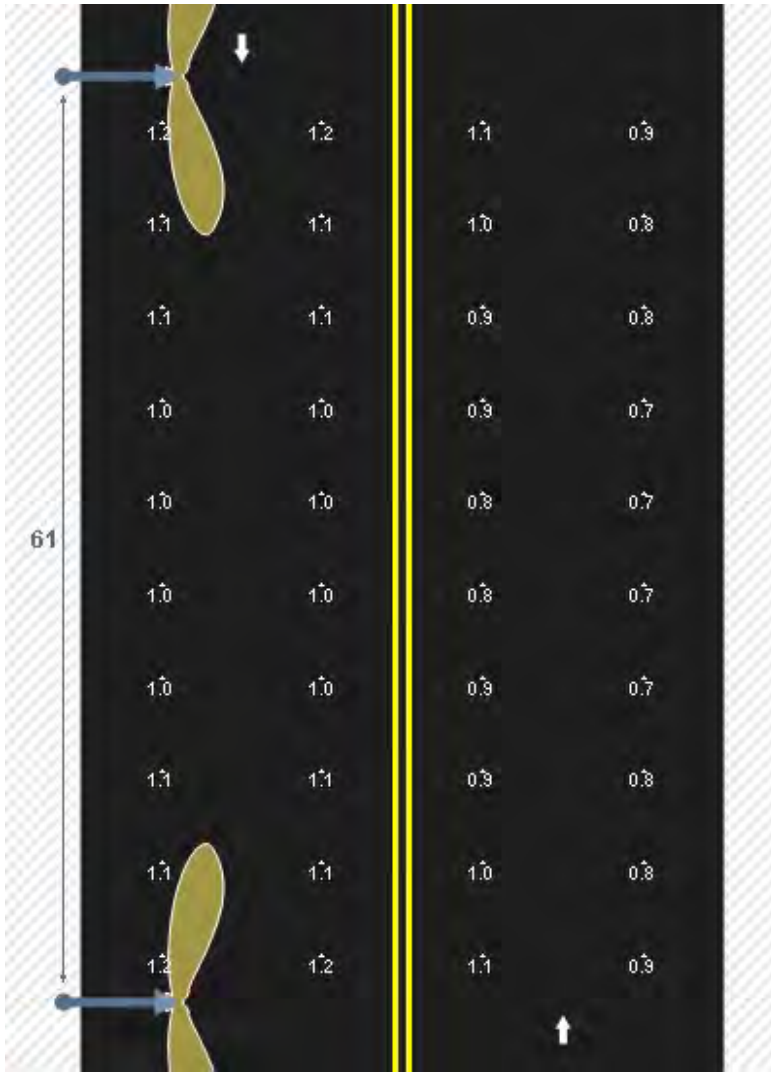
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	0.7	cd/m²
Max:	1.2	0.9	cd/m²
Min	1.1	0.5	cd/m²
Ave/Min:	1	1.4	
Max/Min:	1.1	2	
Lv Ratio:	0.1	0.2	
STV:	0.7	1.8	

Illuminance	Left	Right	
Average:	1.1	0.9	fc
Max:	1.2	1.1	fc
Min	1	0.7	fc
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

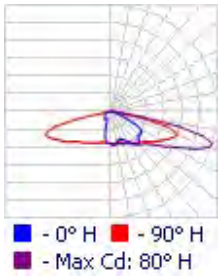
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

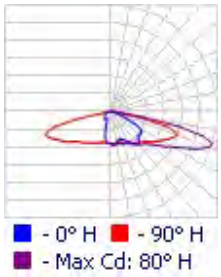
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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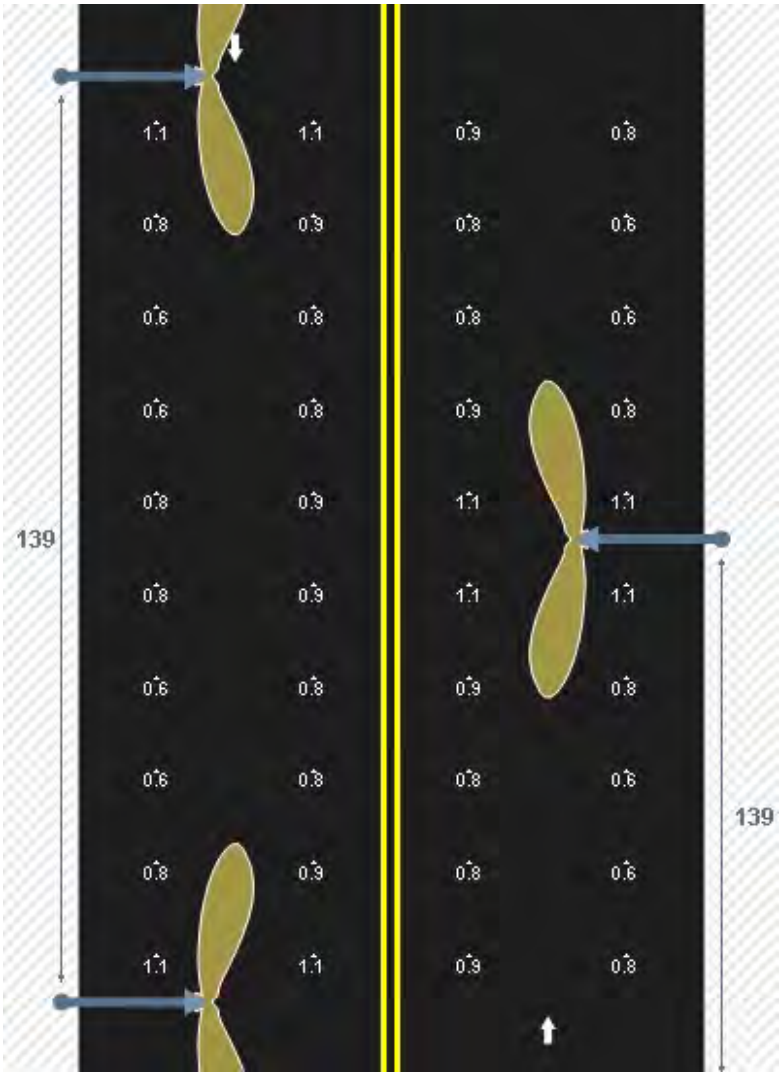
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

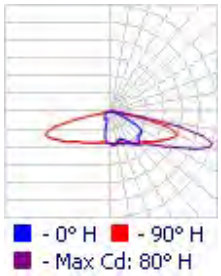
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

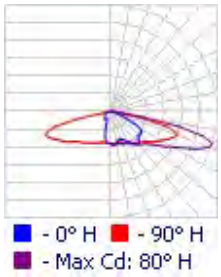
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	138.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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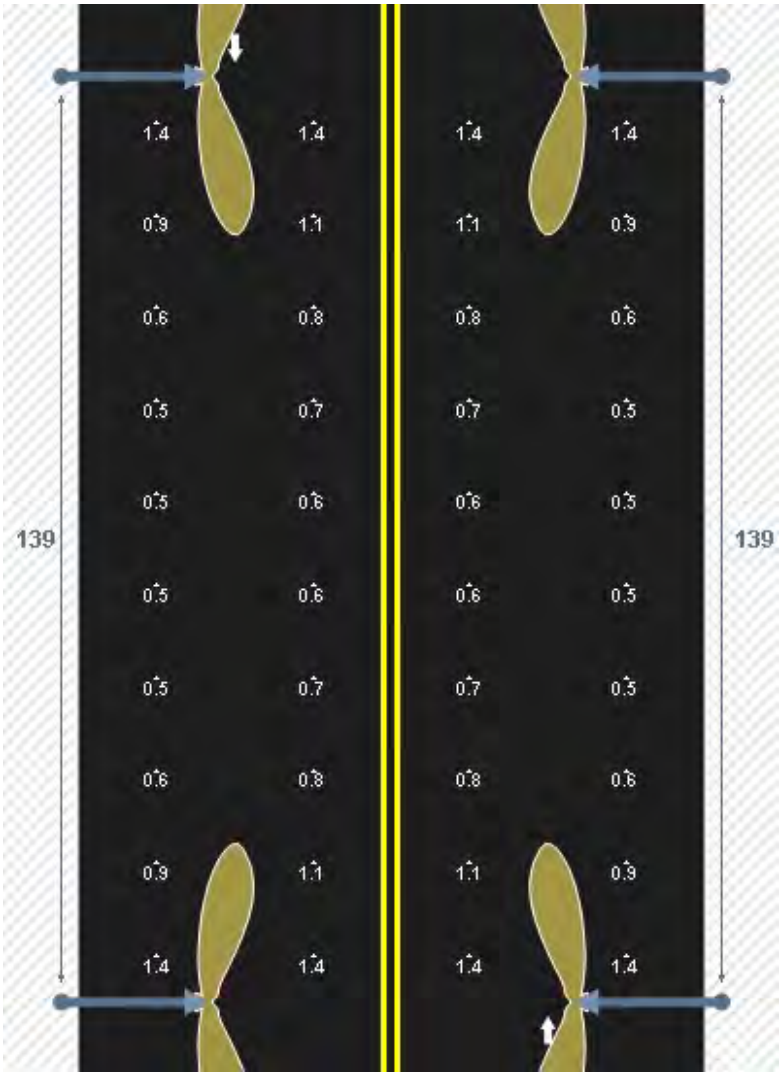

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.3	0.3	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.5	0.5	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.9	2.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

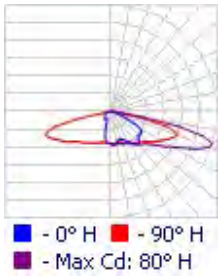
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	63.88 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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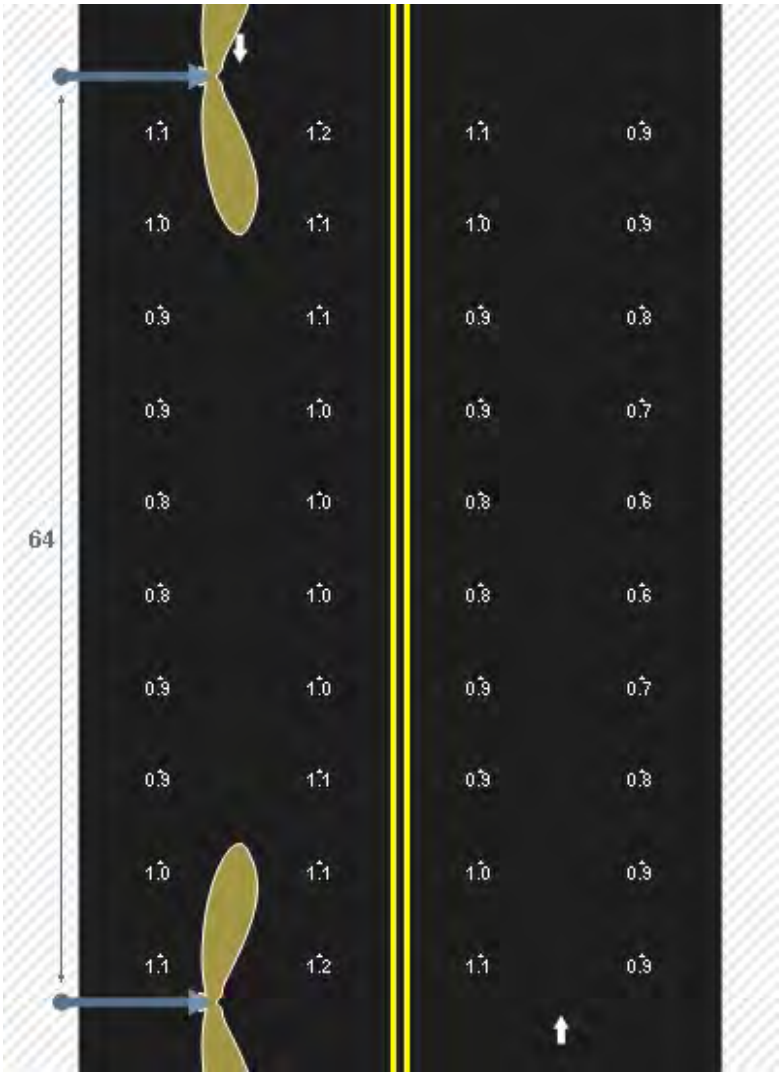

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	0.7	cd/m²
Max:	1.1	1	cd/m²
Min	0.9	0.5	cd/m²
Ave/Min:	1.1	1.4	
Max/Min:	1.2	2	
Lv Ratio:	0.1	0.2	
STV:	0.7	1.5	

Illuminance	Left	Right	
Average:	1	0.9	fc
Max:	1.2	1.1	fc
Min	0.8	0.7	fc
Ave/Min:	1.2	1.3	
Max/Min:	1.5	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

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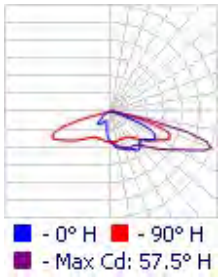
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

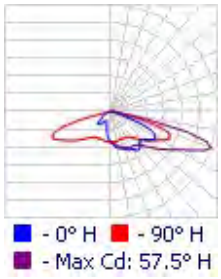
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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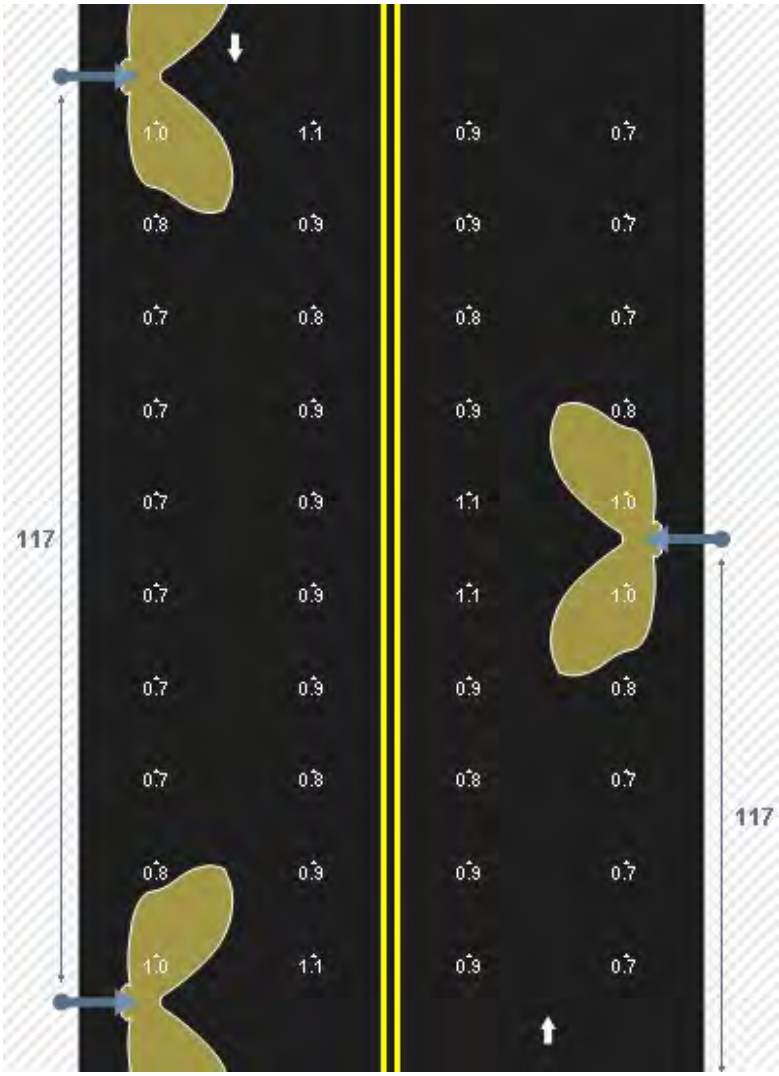

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

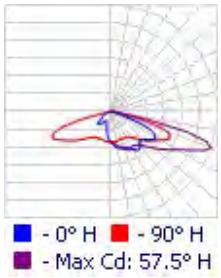
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

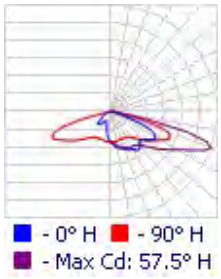
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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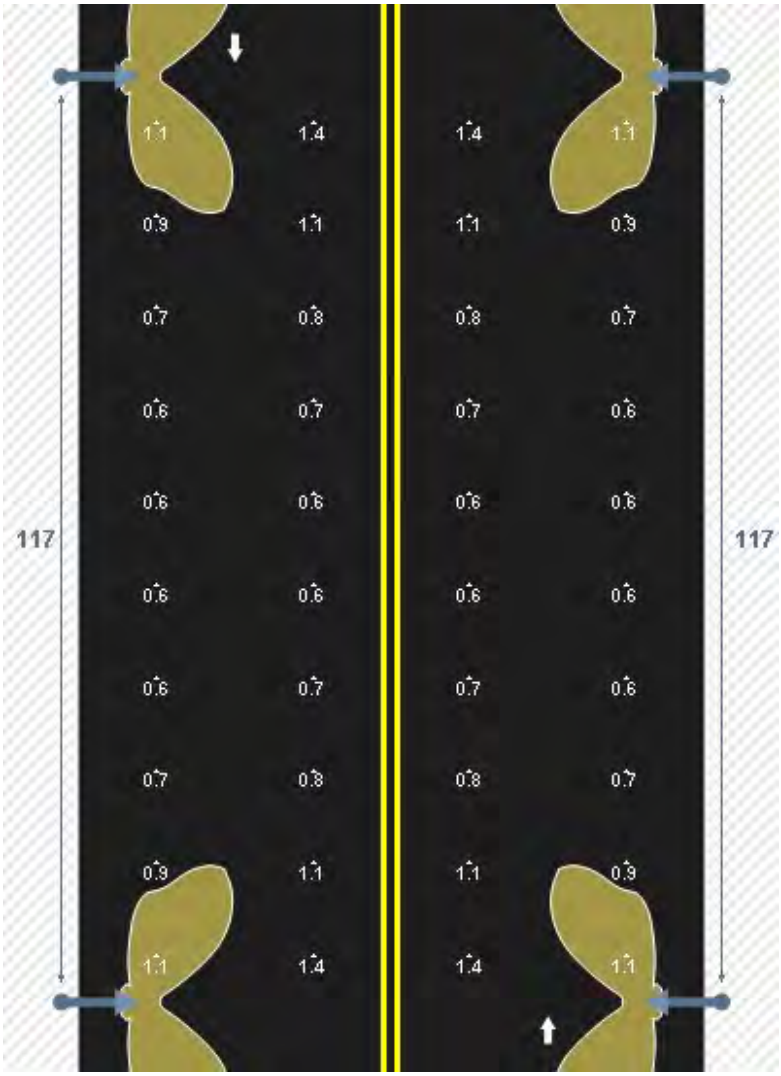

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.8	1.8	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

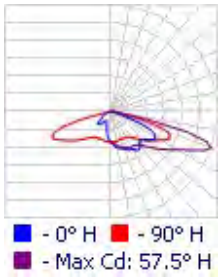
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (19 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	53.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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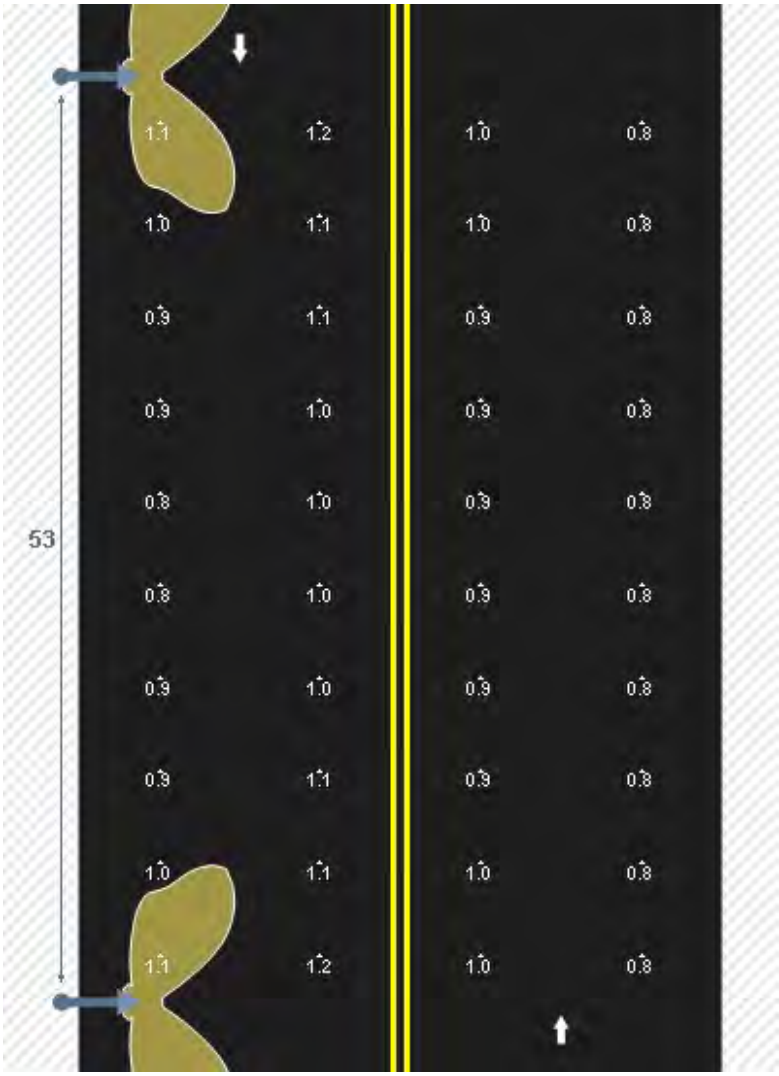

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.6	cd/m²
Max:	1	0.7	cd/m²
Min	0.8	0.5	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.6	

Illuminance	Left	Right	
Average:	1	0.9	fc
Max:	1.2	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

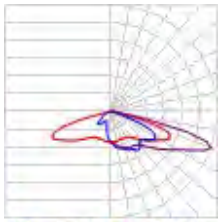
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

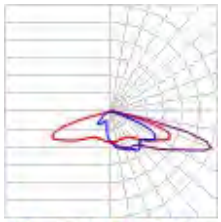
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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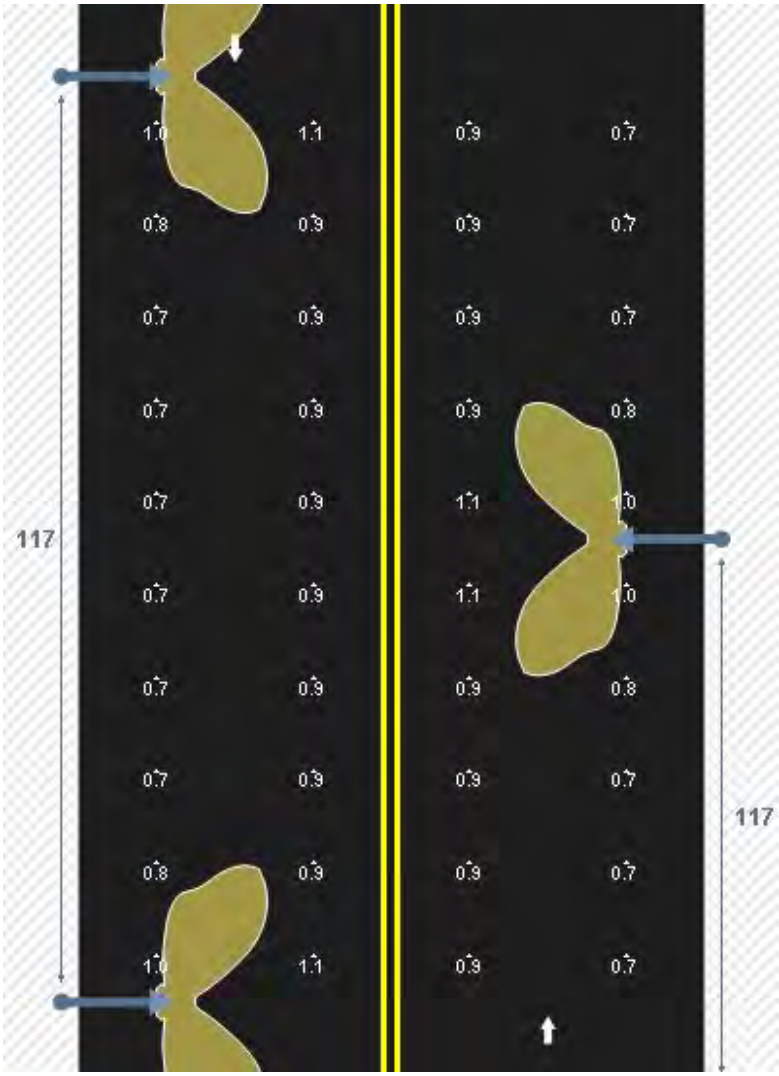

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

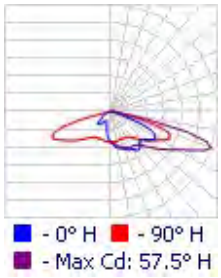
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

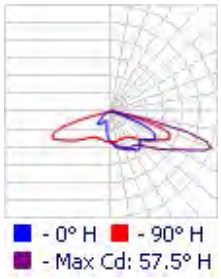
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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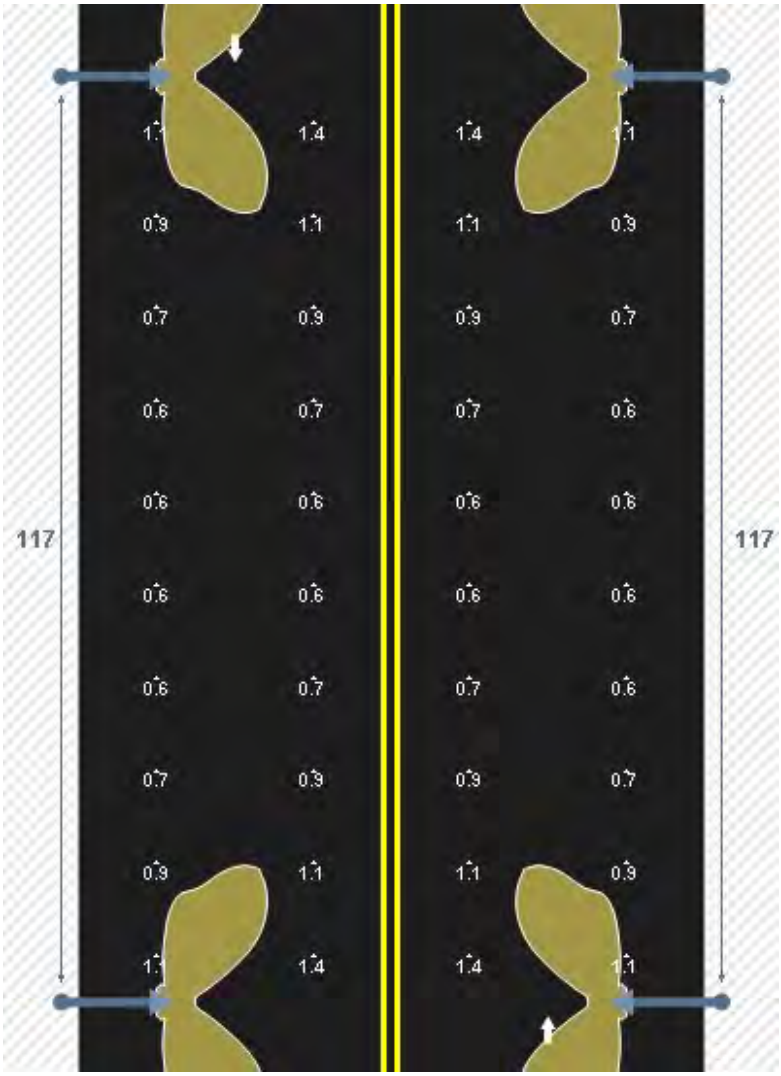

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.8	1.8	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.4	1.4	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.5	2.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

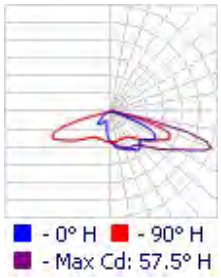
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	56.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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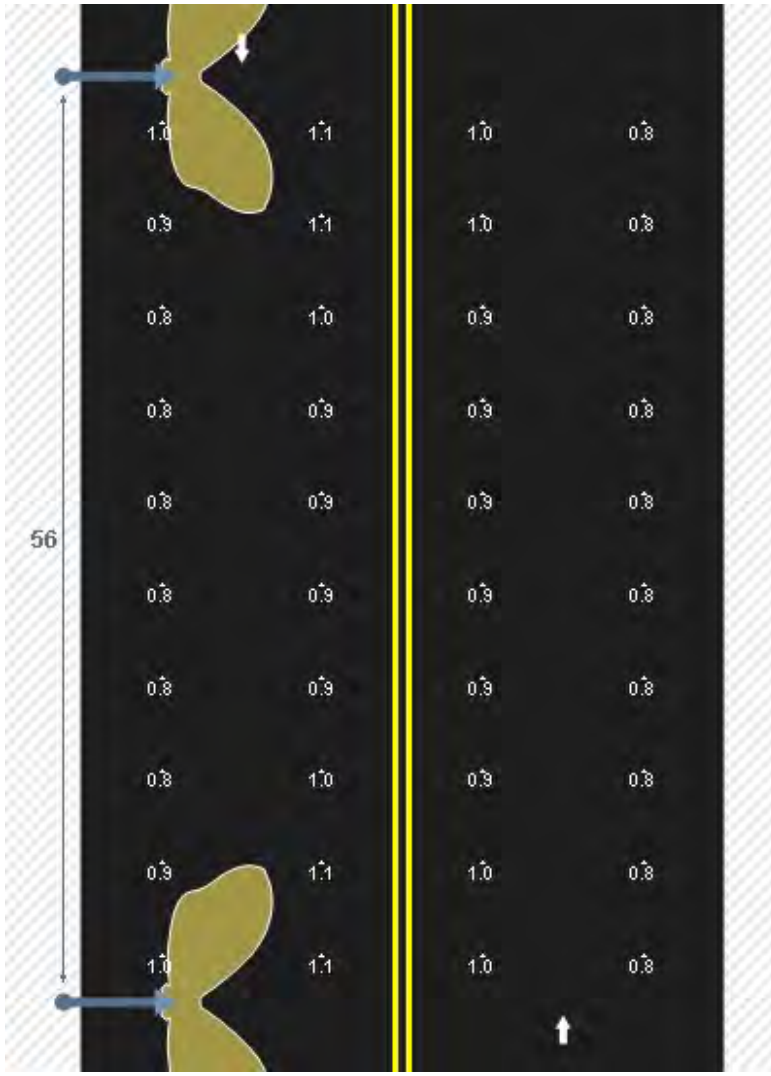

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.6	cd/m²
Max:	0.9	0.7	cd/m²
Min	0.8	0.5	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.1	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.5	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

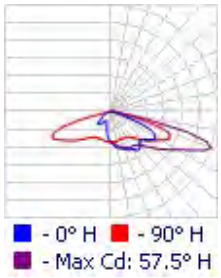
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

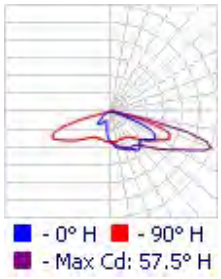
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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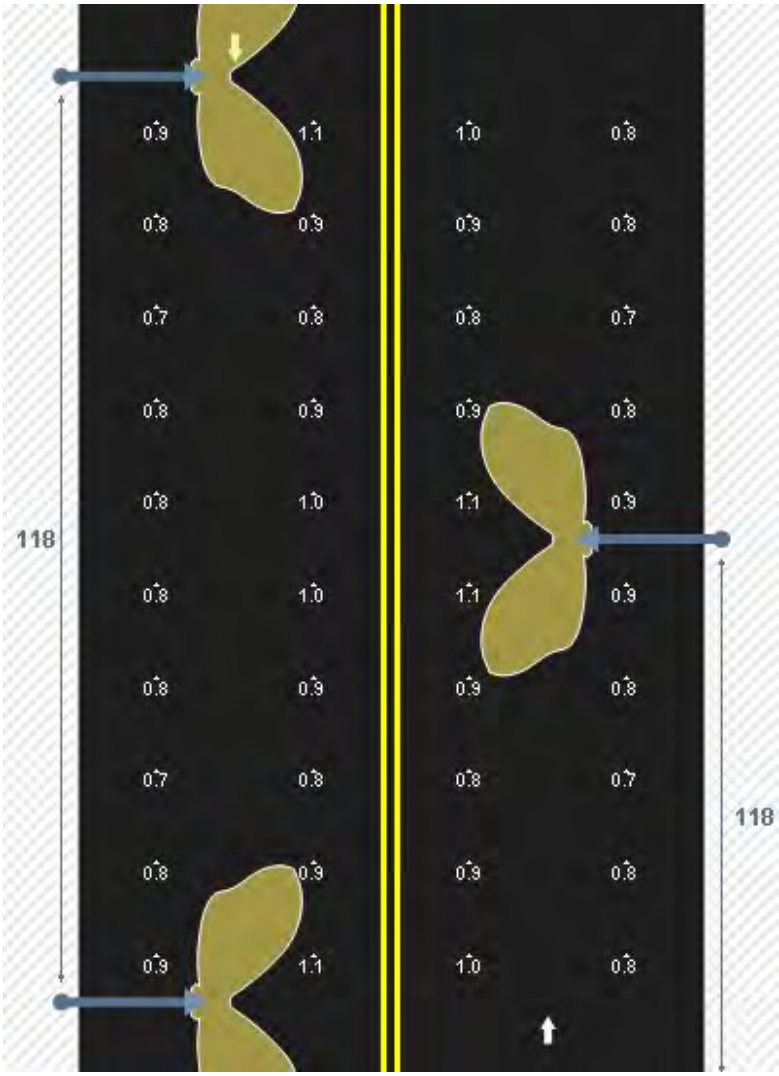

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

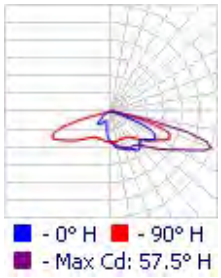
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

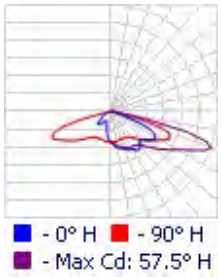
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	117.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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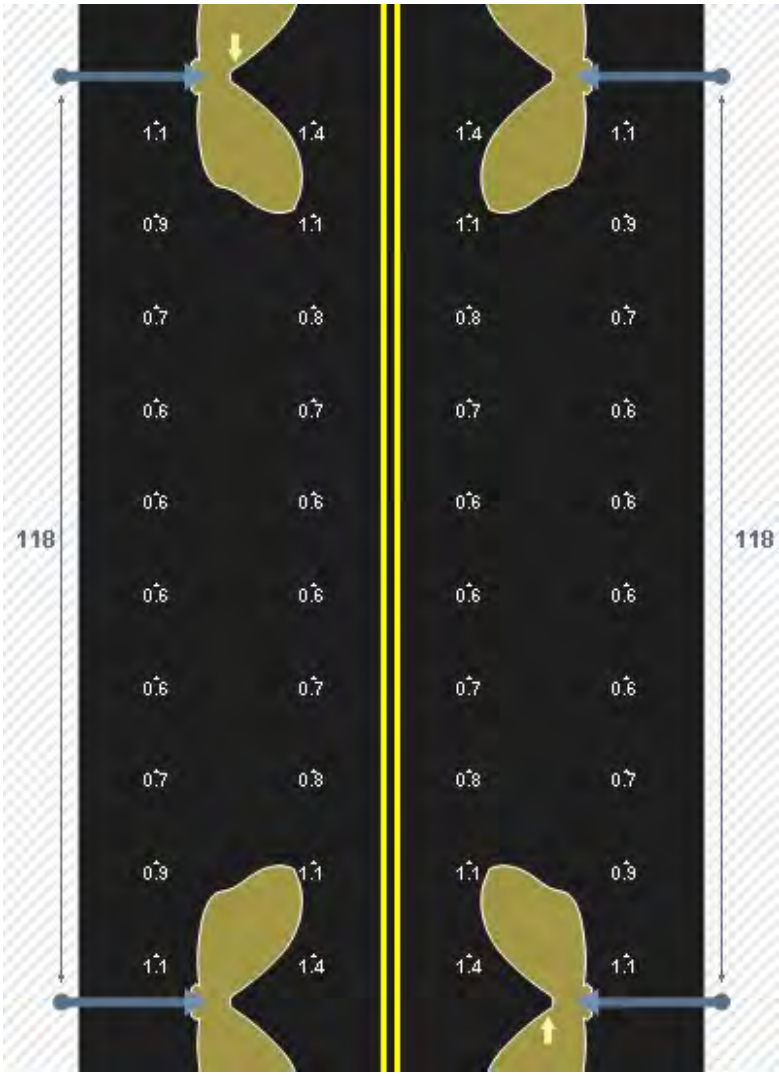

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.9	1.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.6	0.6	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.6	2.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

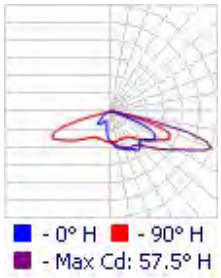
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	58.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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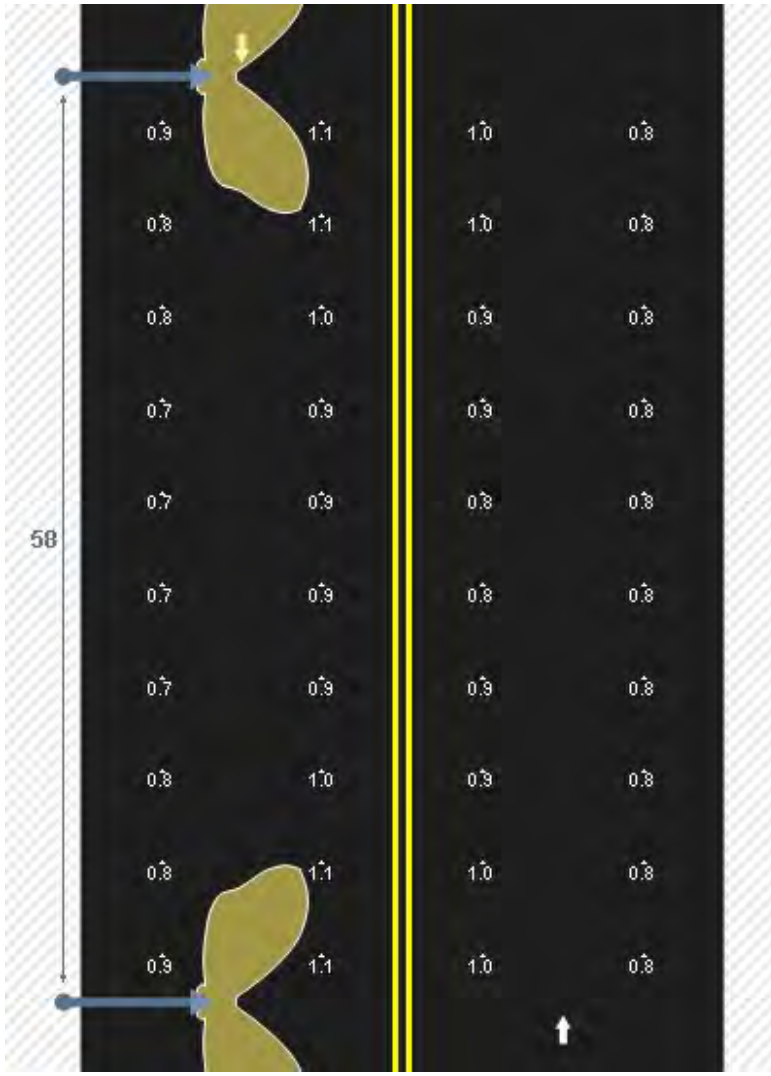

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.6	cd/m²
Max:	0.9	0.8	cd/m²
Min	0.7	0.5	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.3	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.5	1.2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.7	0.8	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

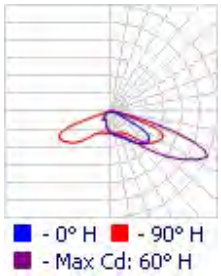
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

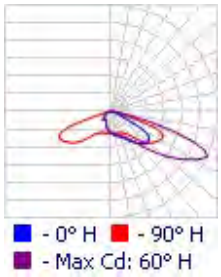
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	236.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	236.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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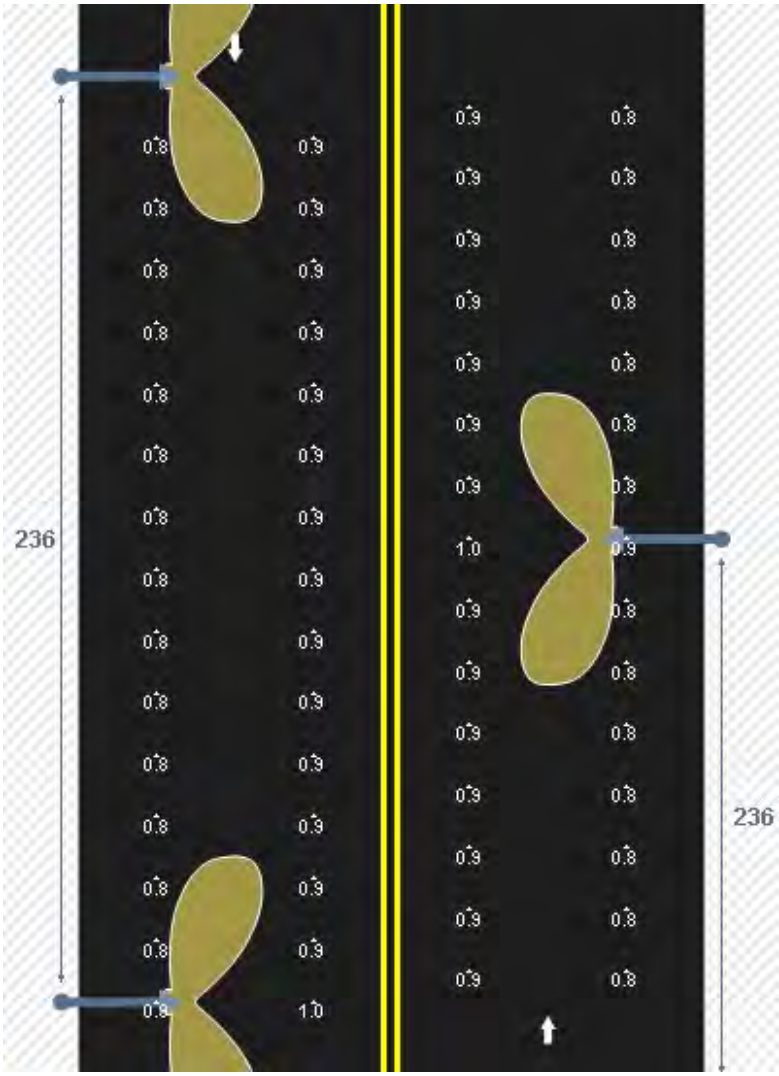

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.1	0.1	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

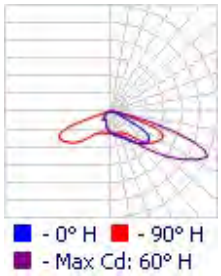
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

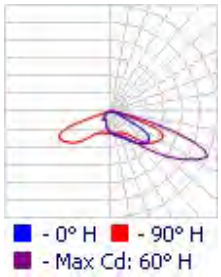
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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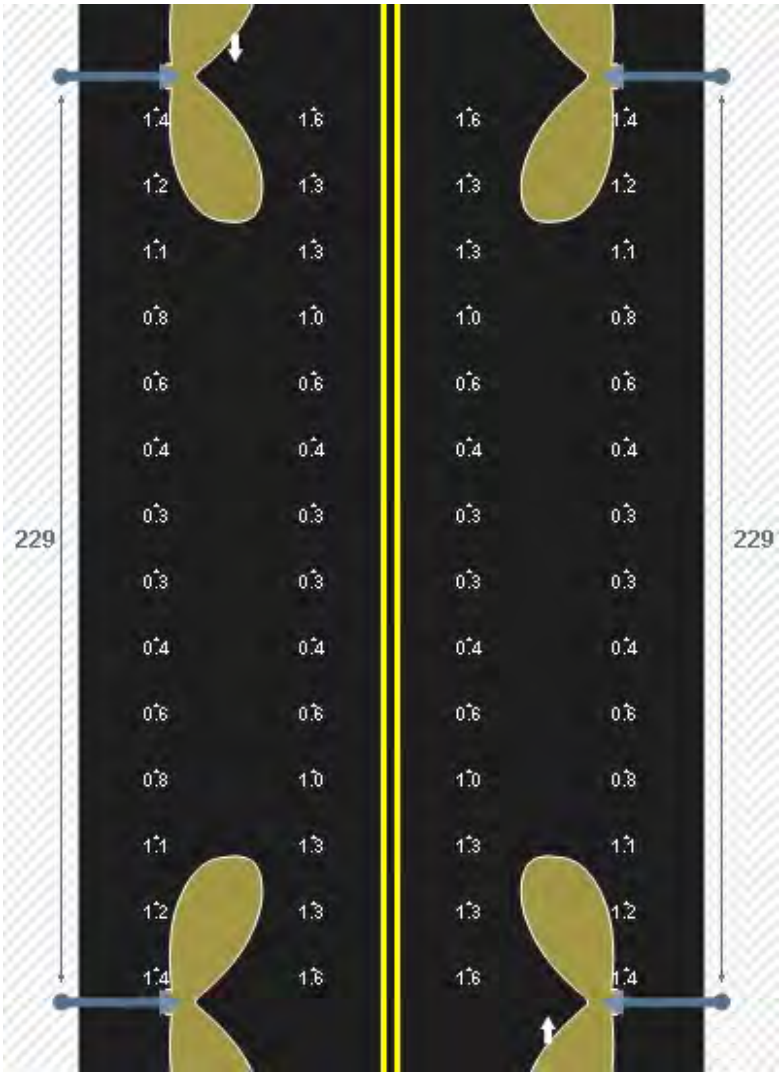

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	3	3	
Lv Ratio:	0.2	0.2	
STV:	4.5	4.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.4	5.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

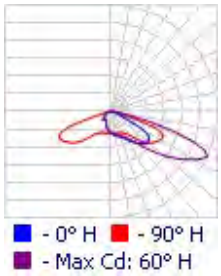
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	107.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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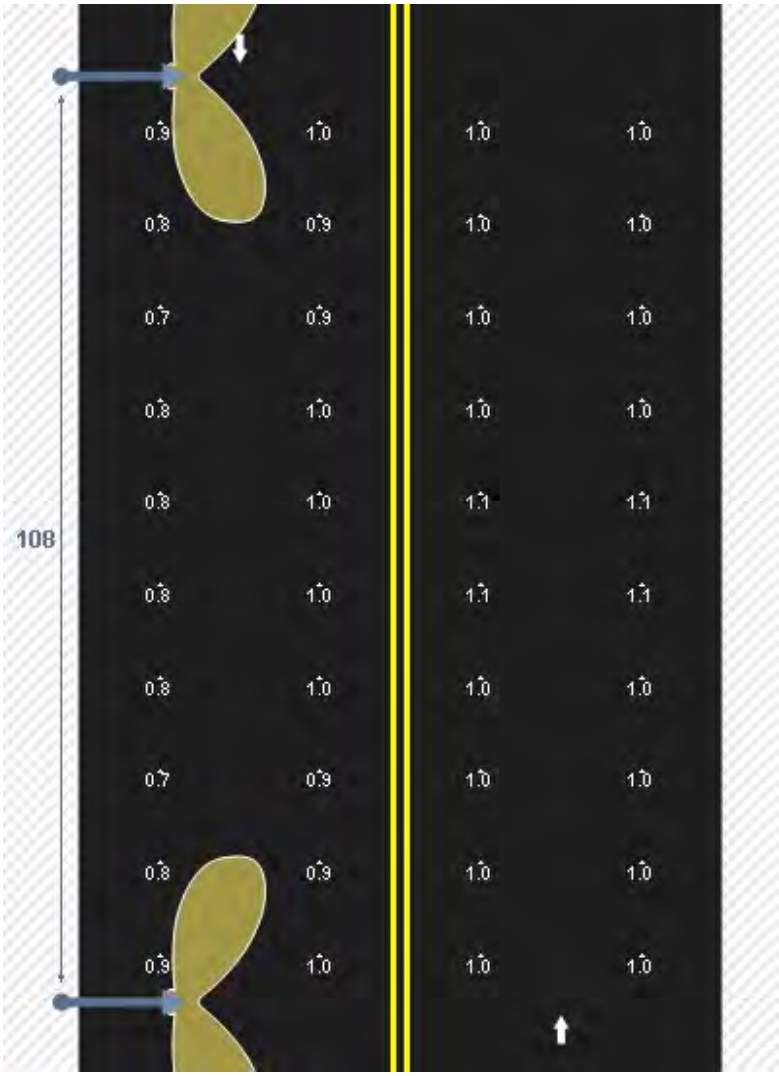

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	0.7	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.4	

Illuminance	Left	Right	
Average:	0.9	1	fc
Max:	1	1.1	fc
Min	0.7	1	fc
Ave/Min:	1.2	1	
Max/Min:	1.4	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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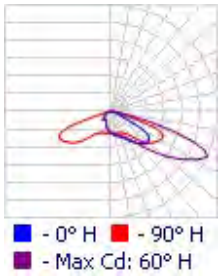
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

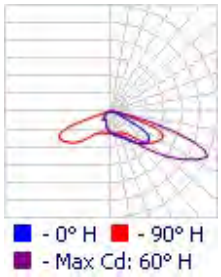
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	230.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	230.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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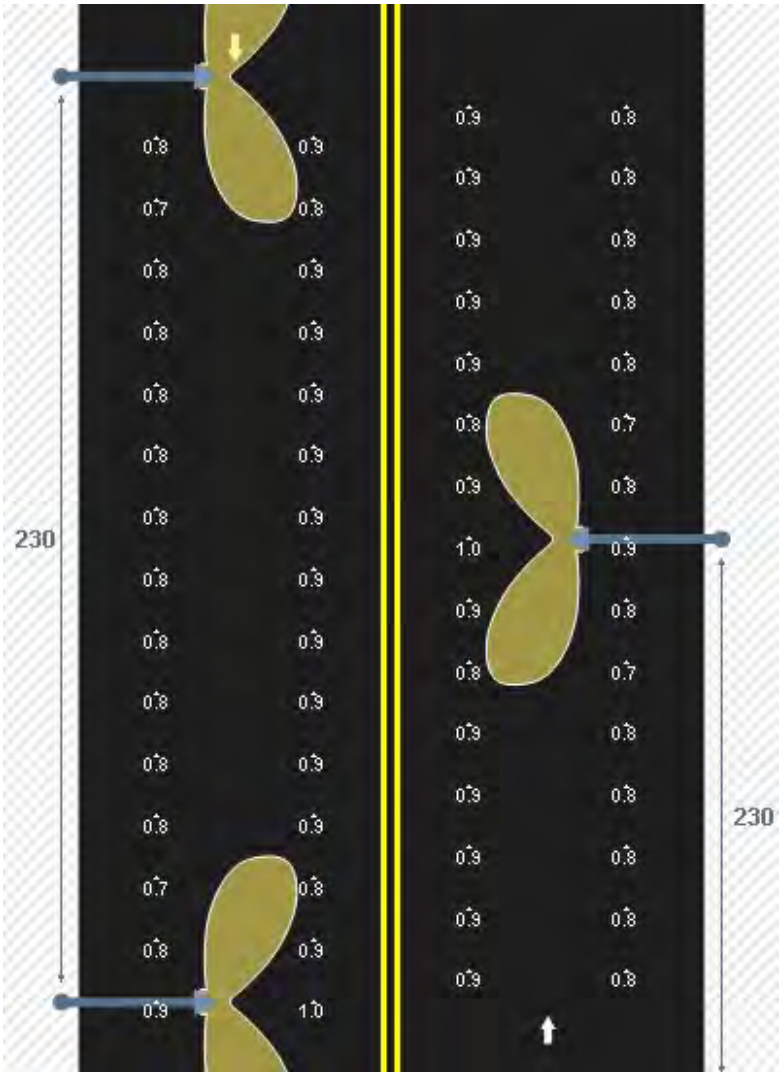

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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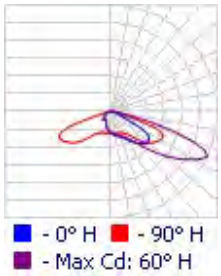
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

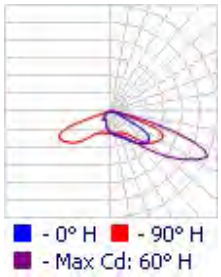
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	226.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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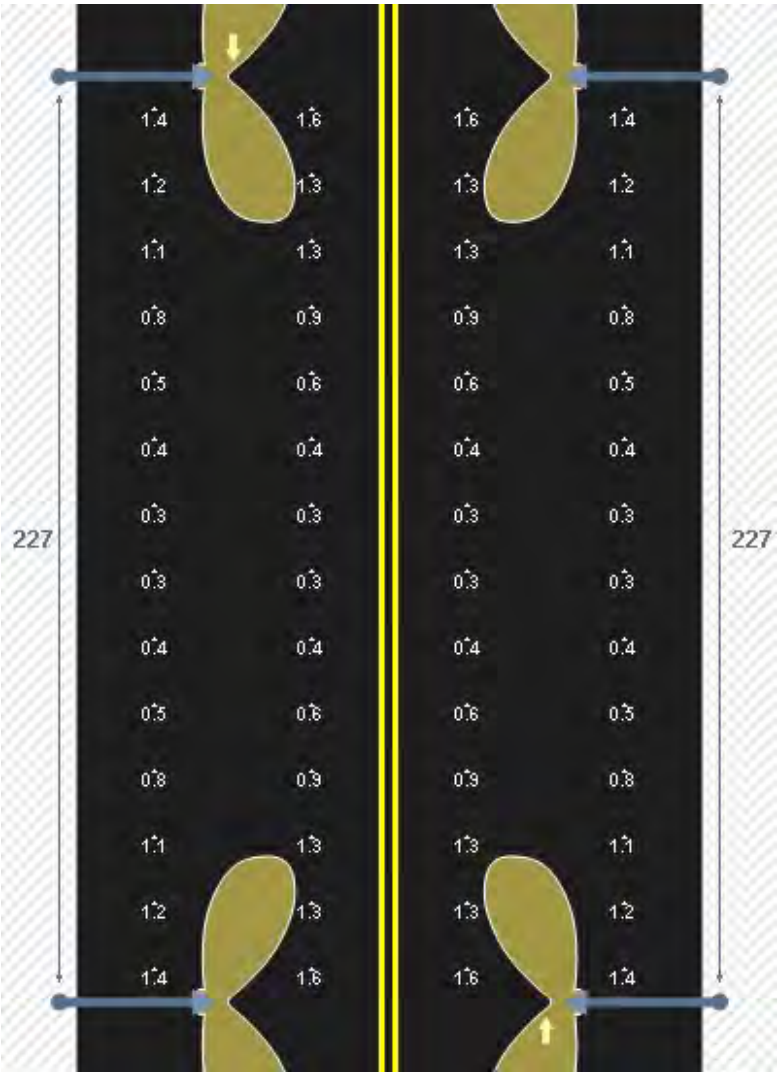

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	3	3	
Lv Ratio:	0.3	0.3	
STV:	4.4	4.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.4	5.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

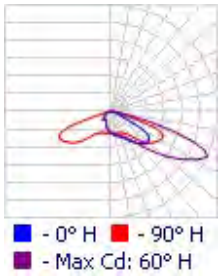
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	101.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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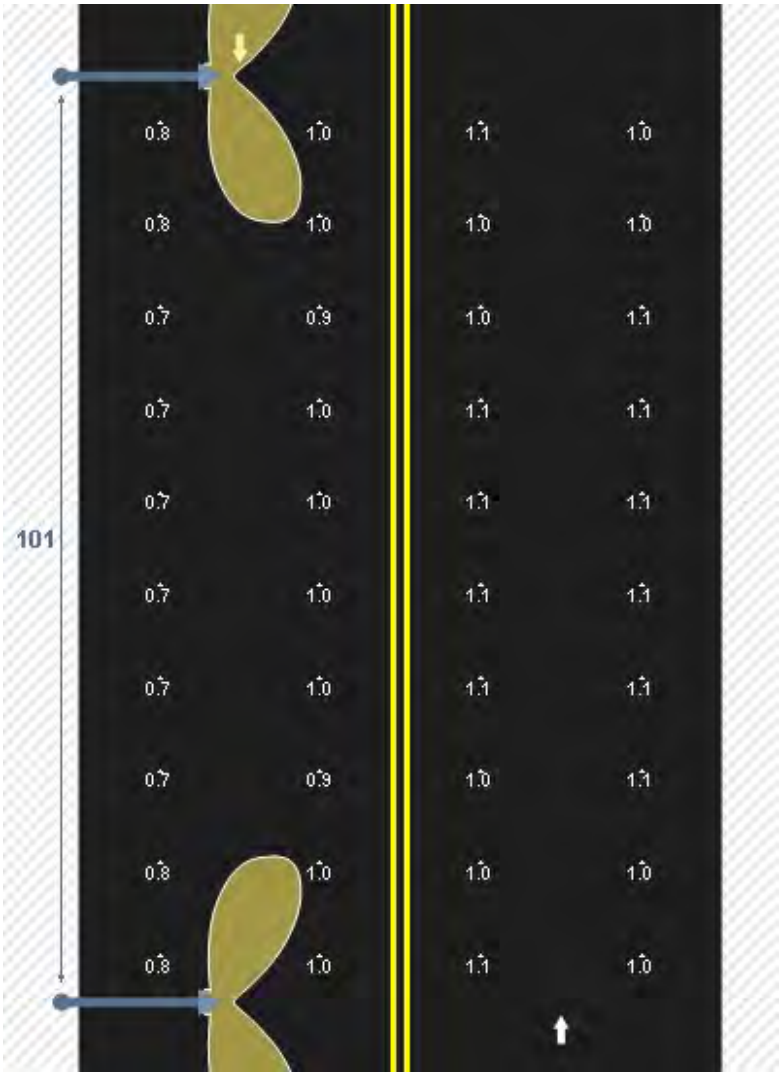

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.9	1.2	

Illuminance	Left	Right	
Average:	0.9	1.1	fc
Max:	1	1.1	fc
Min	0.7	1	fc
Ave/Min:	1.2	1	
Max/Min:	1.5	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

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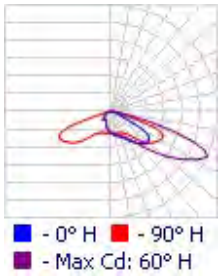
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

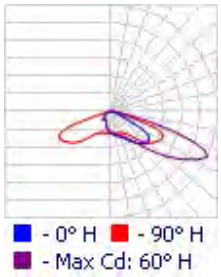
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	223.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	223.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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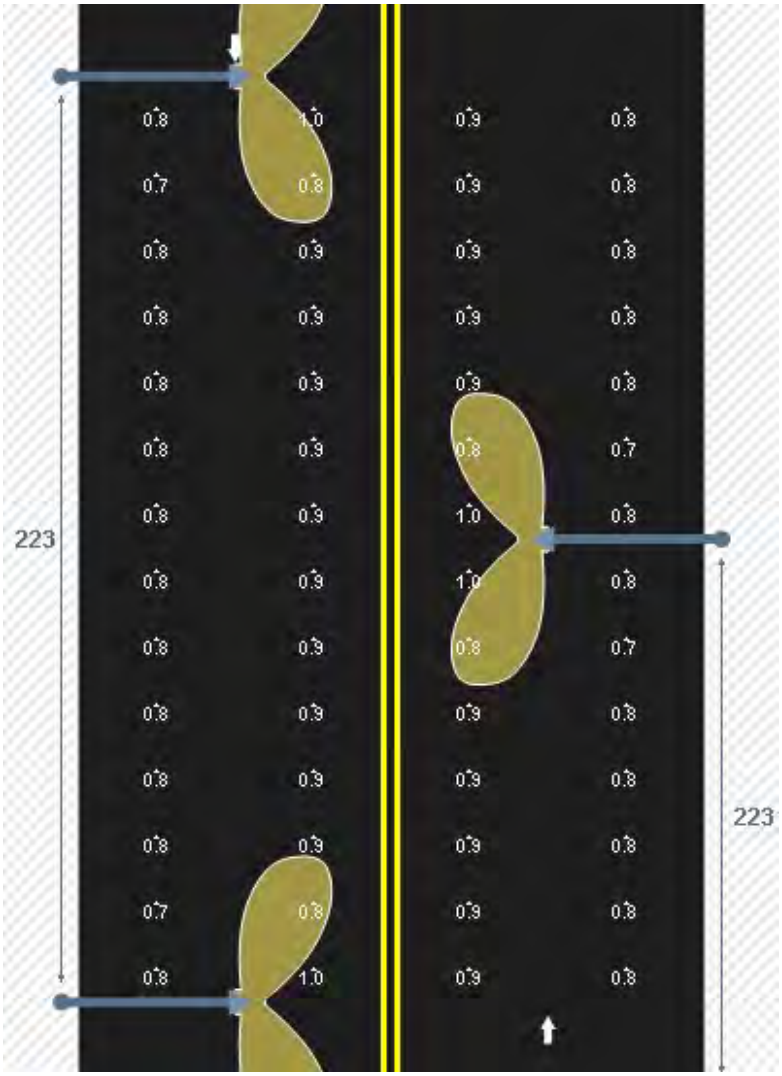

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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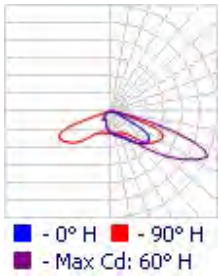
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

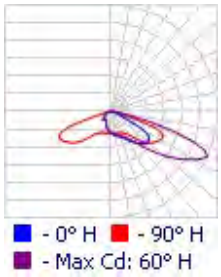
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	223.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	223.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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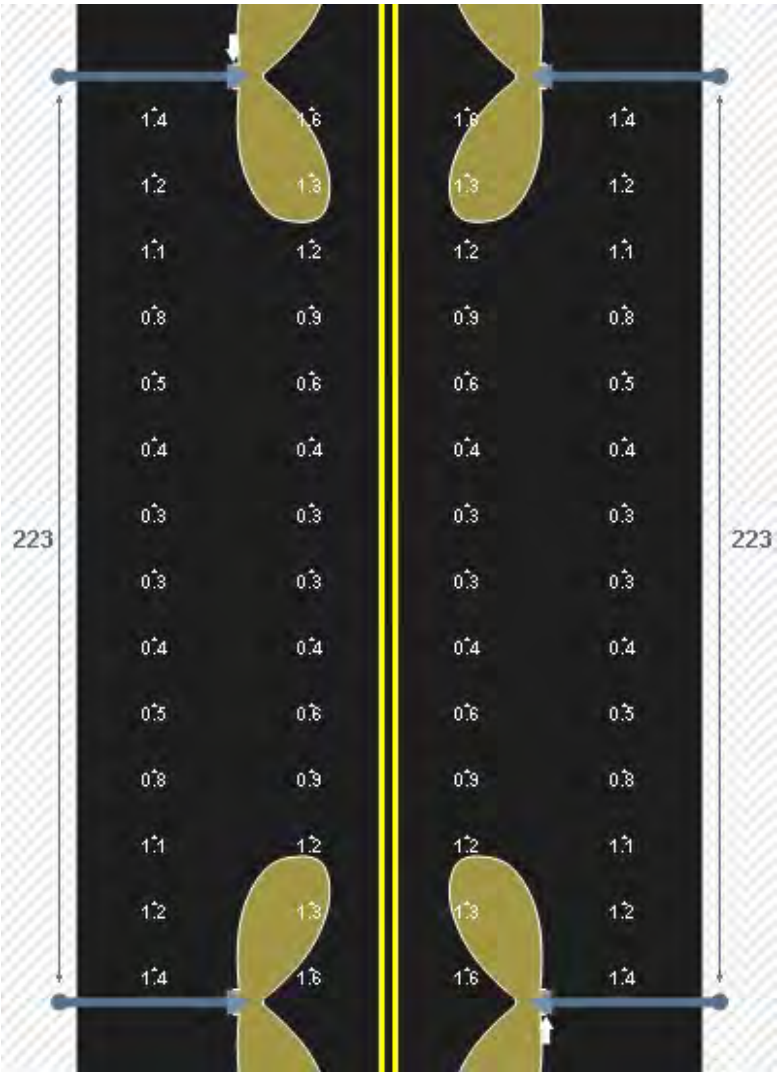

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	3	3	
Lv Ratio:	0.2	0.2	
STV:	4.3	4.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	2.9	2.9	
Max/Min:	5.2	5.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Your Email

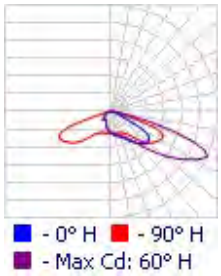
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	95.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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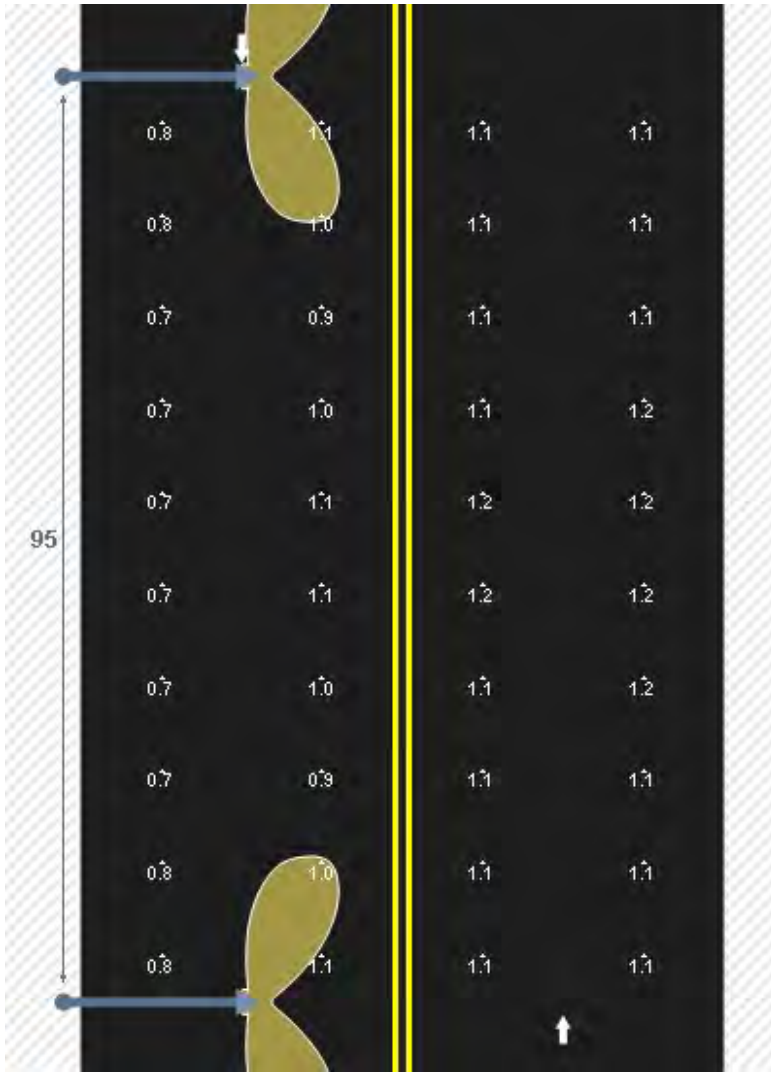

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.8	cd/m²
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.8	1.1	

Illuminance	Left	Right	
Average:	0.9	1.1	fc
Max:	1.1	1.2	fc
Min	0.7	1.1	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

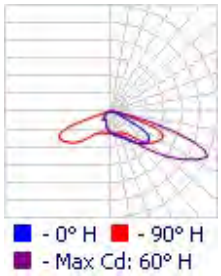
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

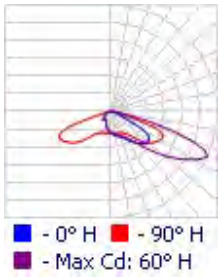
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	214.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	214.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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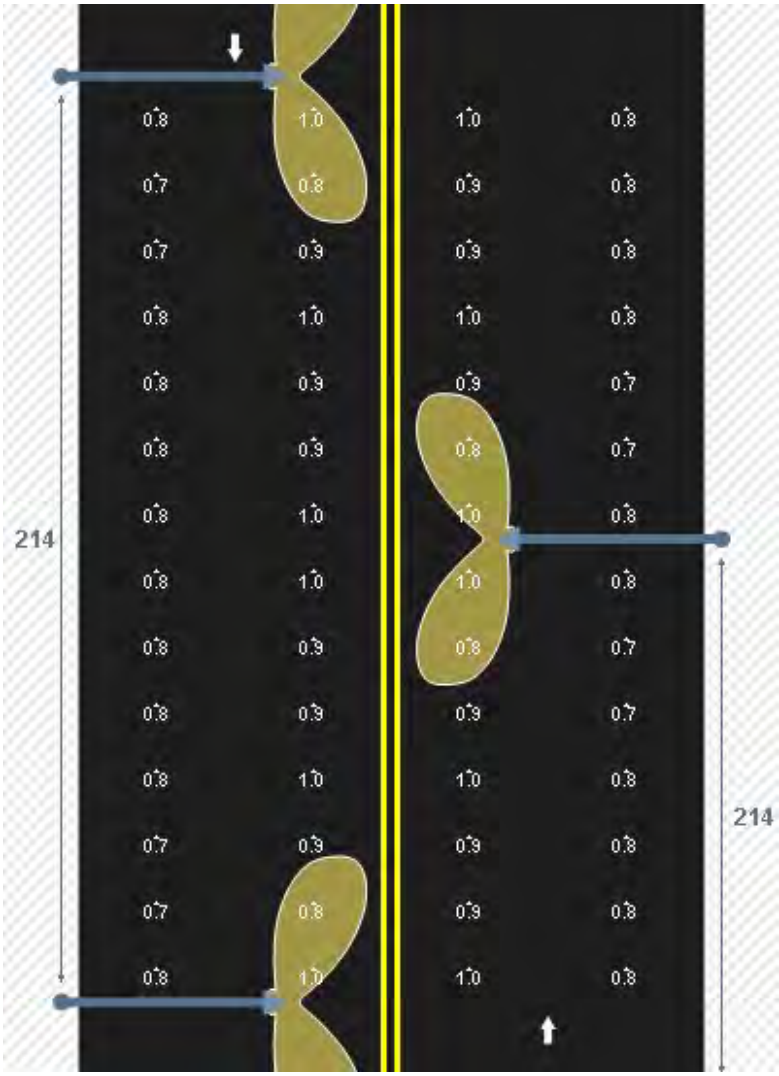

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

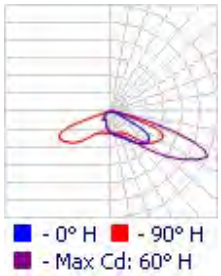
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

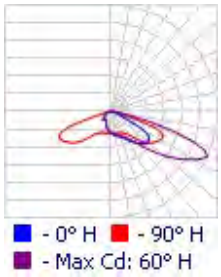
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	214.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	214.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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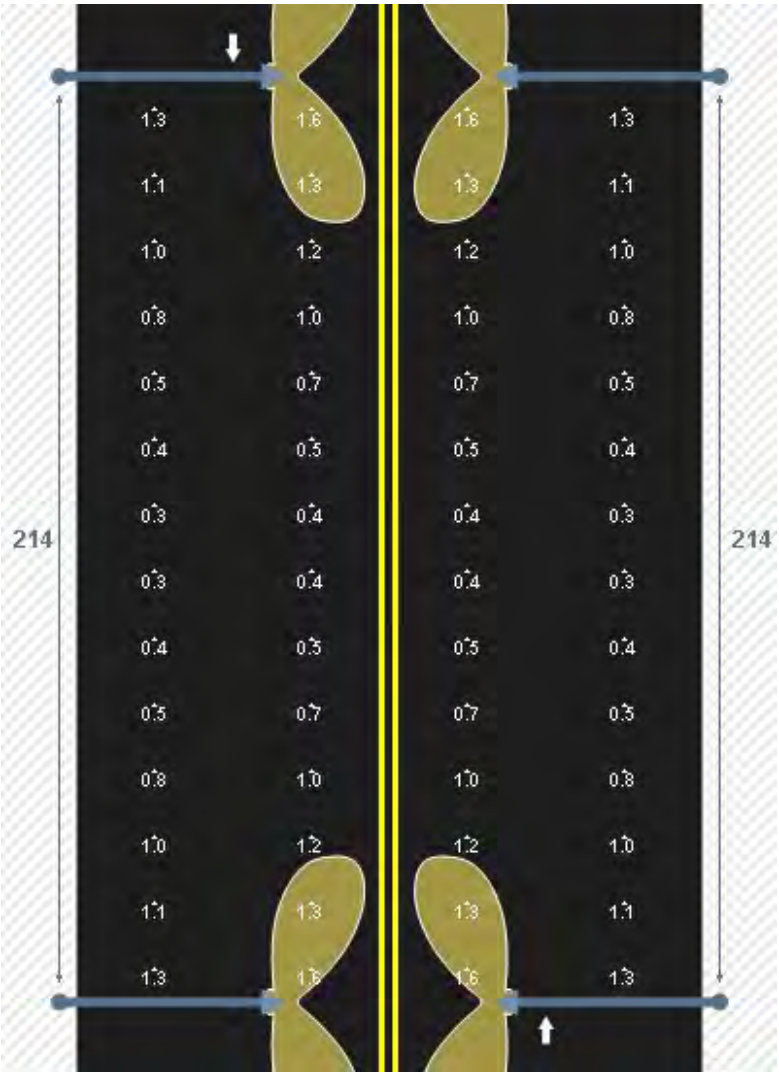

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	3	3	
Lv Ratio:	0.2	0.2	
STV:	4	4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	2.5	2.5	
Max/Min:	4.6	4.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

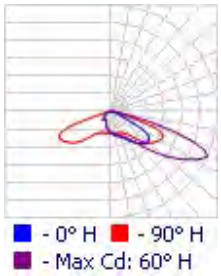
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	87.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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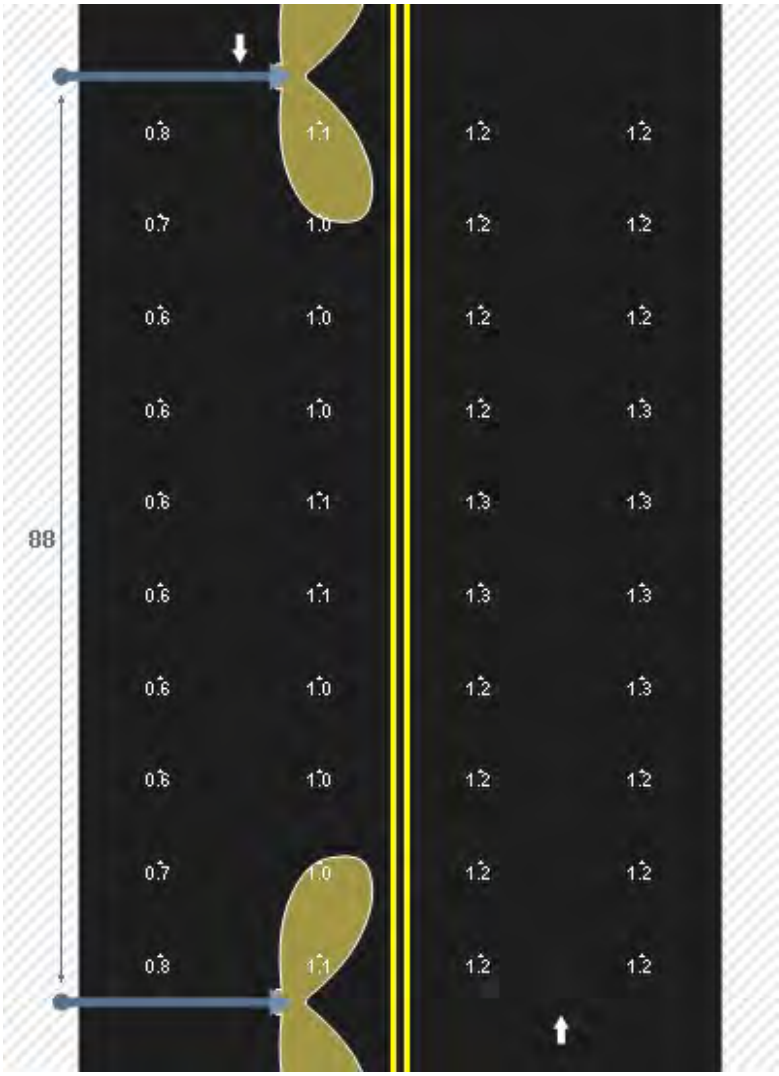

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	1	cd/m²
Max:	1	1.1	cd/m²
Min	0.6	0.9	cd/m²
Ave/Min:	1.4	1.1	
Max/Min:	1.9	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.9	

Illuminance	Left	Right	
Average:	0.9	1.2	fc
Max:	1.1	1.3	fc
Min	0.6	1.2	fc
Ave/Min:	1.4	1.1	
Max/Min:	1.8	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

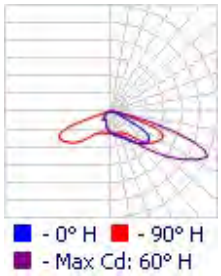
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

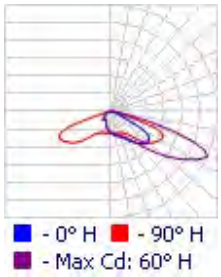
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	199.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	199.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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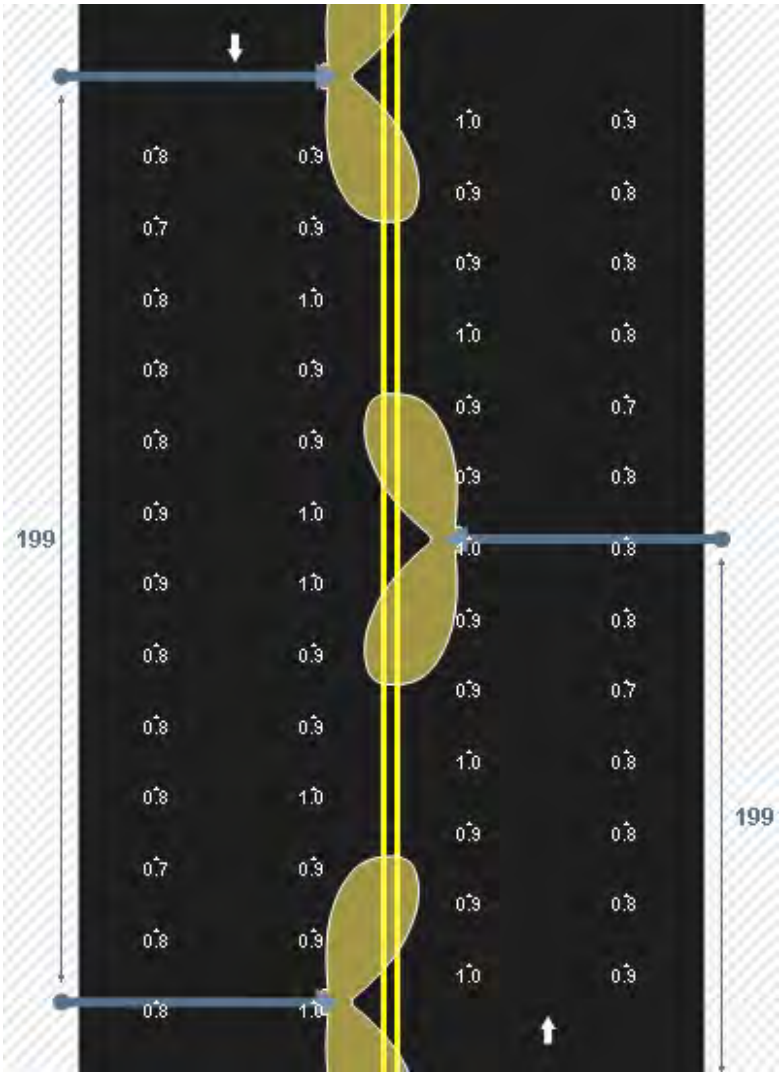

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	1.9	1.9	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

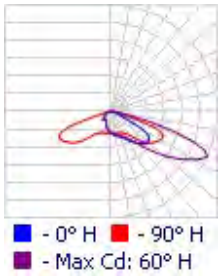
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

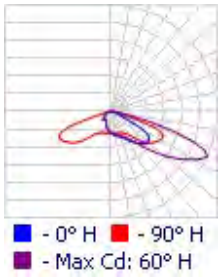
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	200.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	200.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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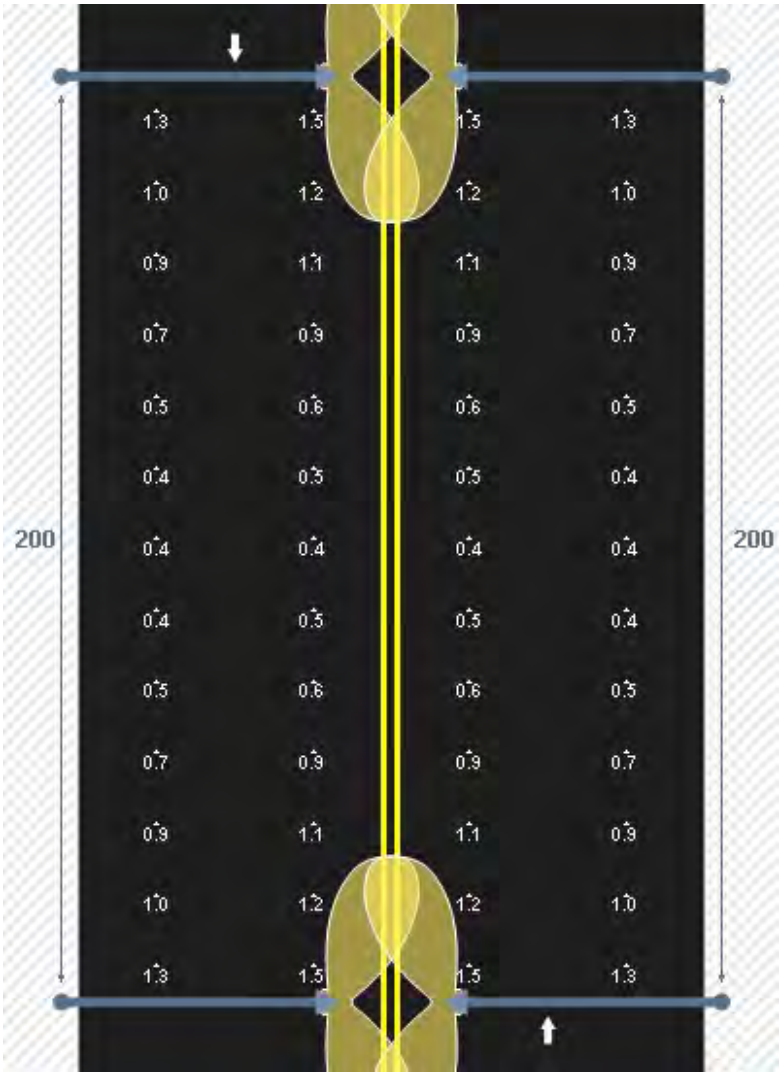

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.7	2.7	
Lv Ratio:	0.2	0.2	
STV:	3.5	3.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.4	0.4	fc
Ave/Min:	2.2	2.2	
Max/Min:	3.9	3.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

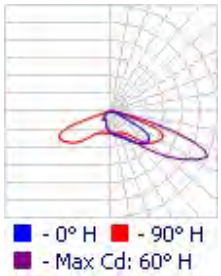
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	75.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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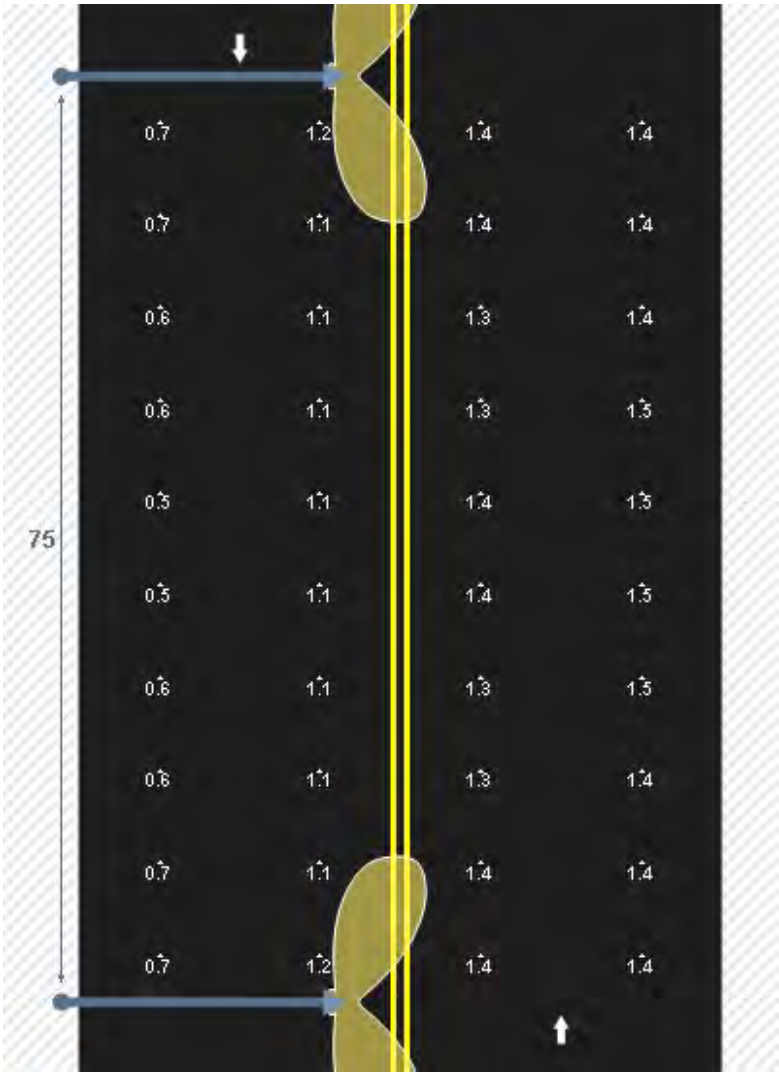

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	1.2	cd/m²
Max:	1.1	1.3	cd/m²
Min	0.5	1.1	cd/m²
Ave/Min:	1.6	1.1	
Max/Min:	2.3	1.1	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.7	

Illuminance	Left	Right	
Average:	0.9	1.4	fc
Max:	1.2	1.5	fc
Min	0.6	1.3	fc
Ave/Min:	1.6	1.1	
Max/Min:	2.1	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Your Email

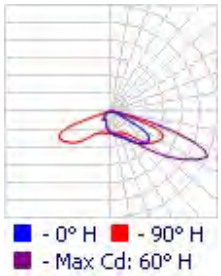
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

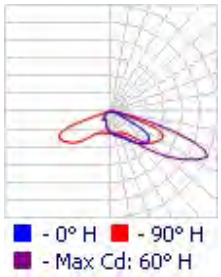
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	234.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	234.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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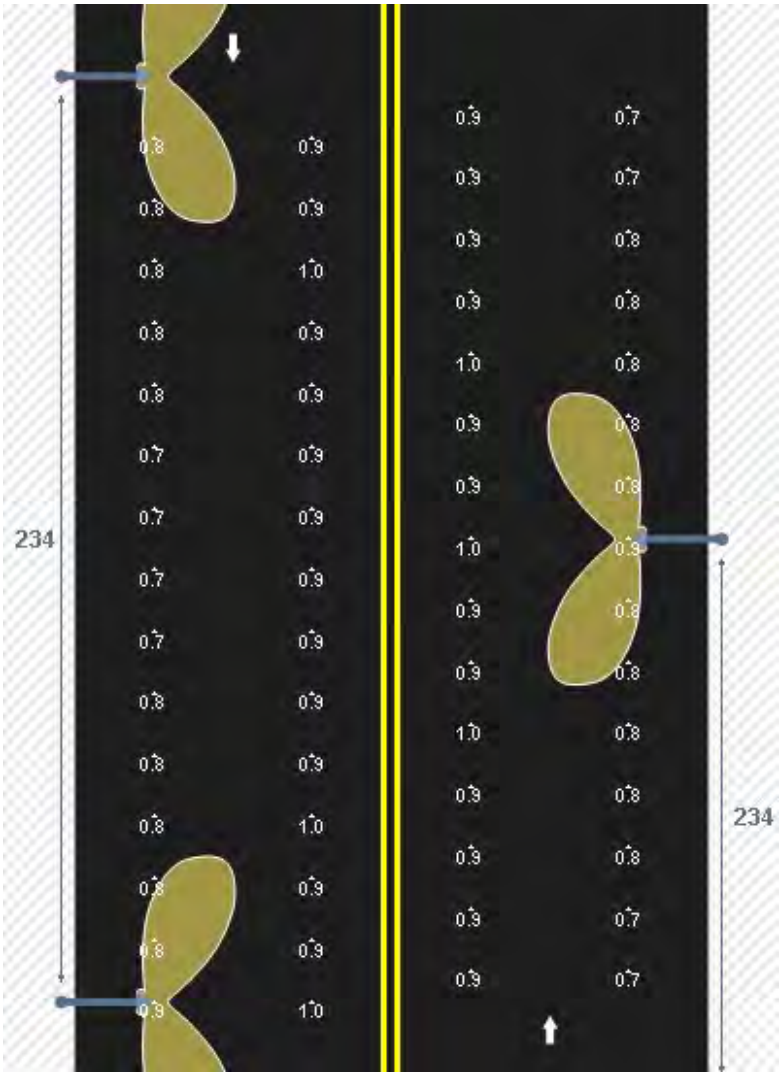

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.5	1.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

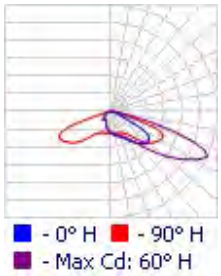
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

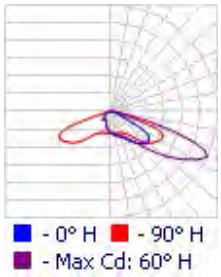
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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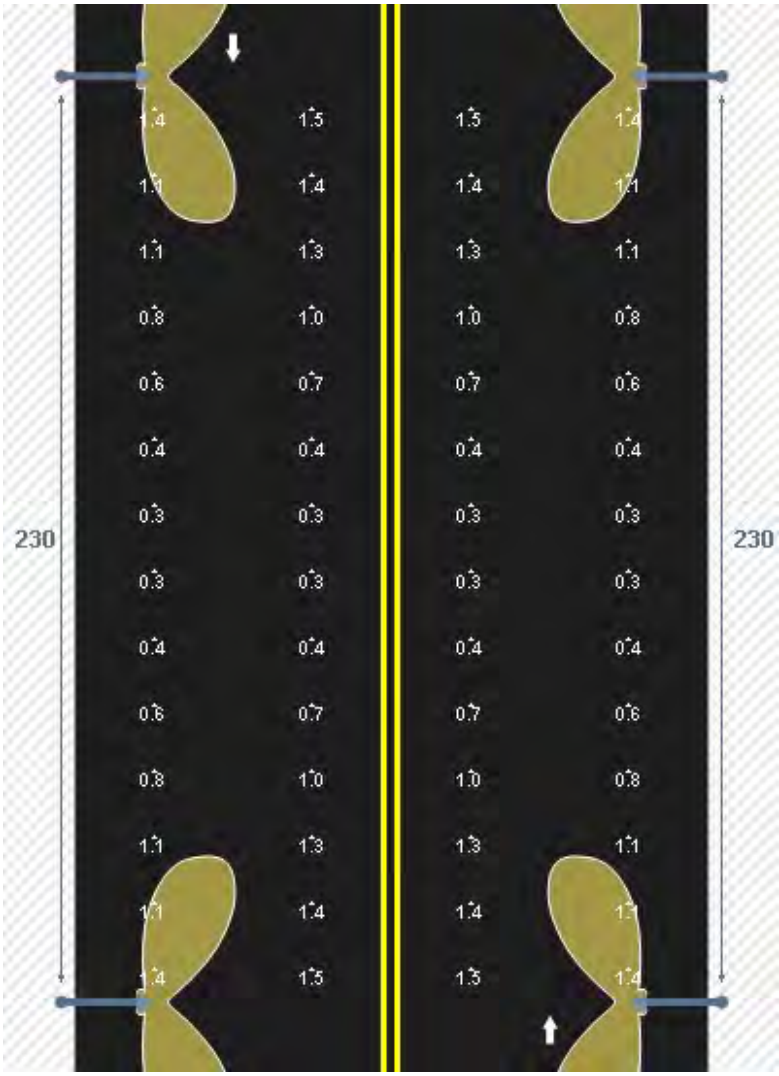

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.7	2.7	
Lv Ratio:	0.3	0.3	
STV:	4.5	4.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.3	5.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

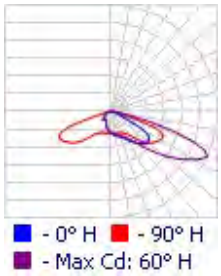
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	113.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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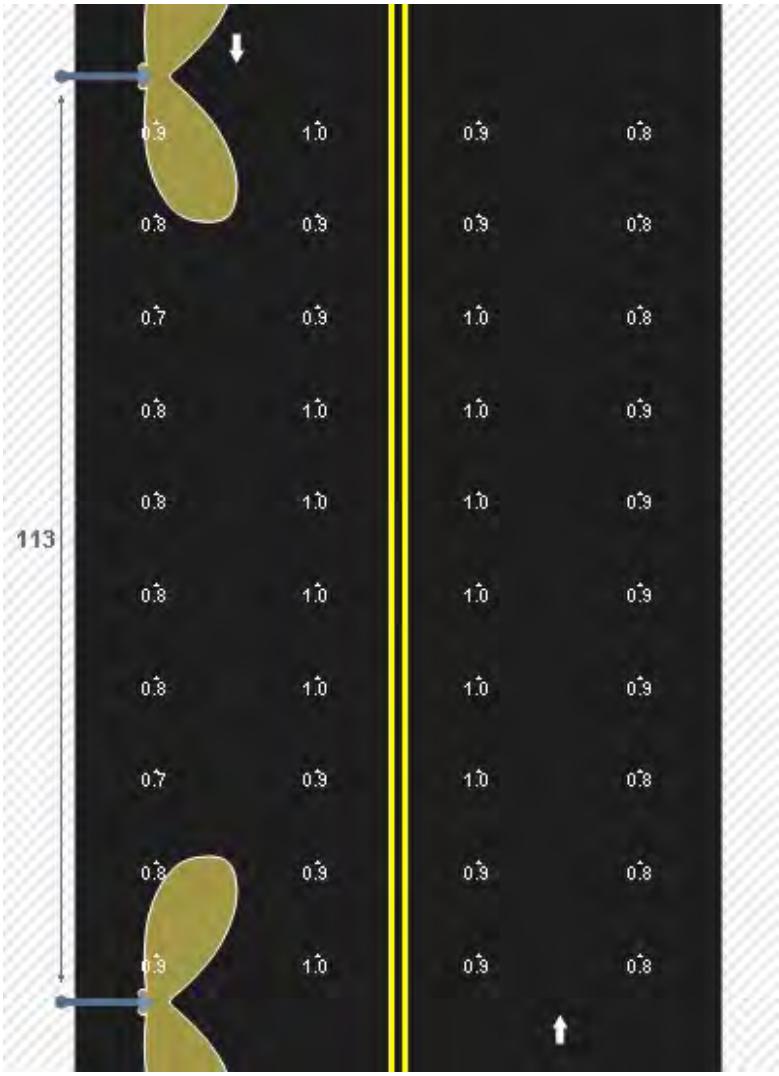

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.6	cd/m²
Max:	1	0.8	cd/m²
Min	0.6	0.5	cd/m²
Ave/Min:	1.2	1.3	
Max/Min:	1.5	1.6	
Lv Ratio:	0.1	0.2	
STV:	1.2	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.8	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

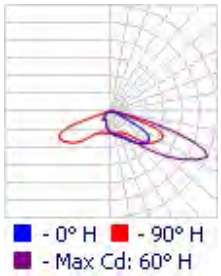
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

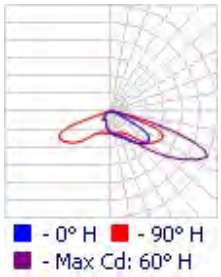
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	231.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	231.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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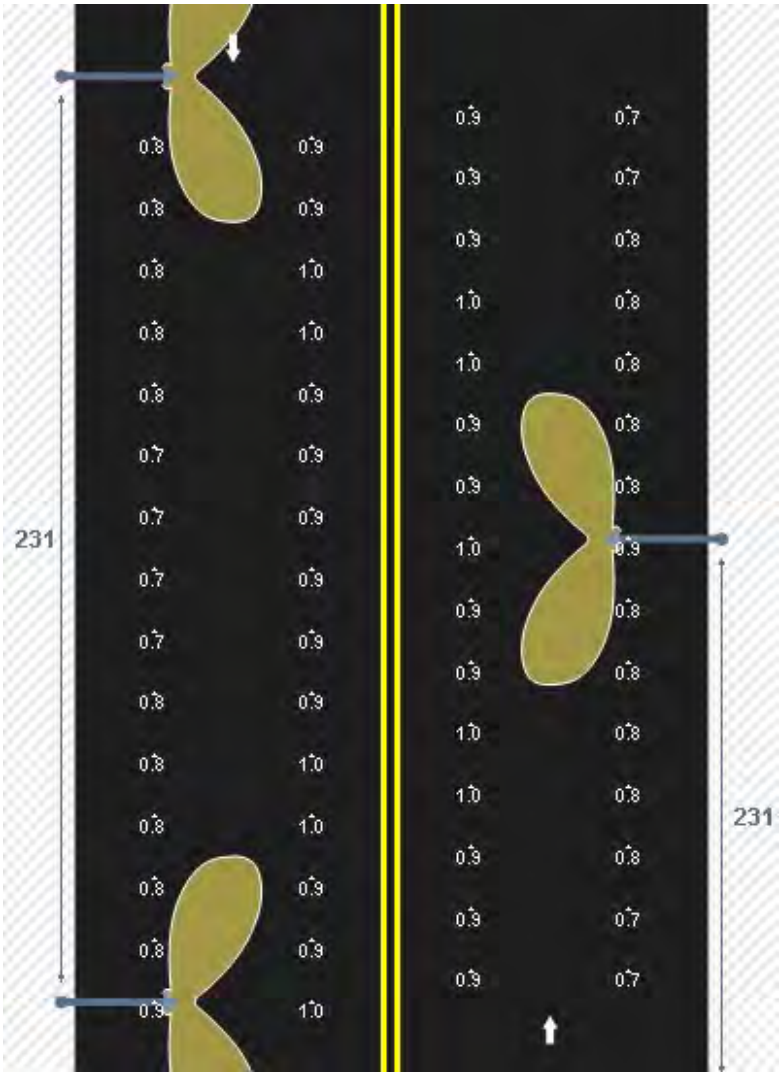

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

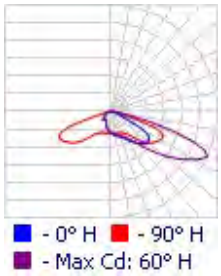
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

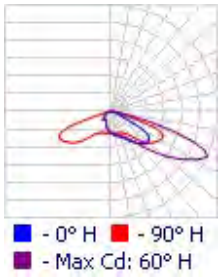
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	229.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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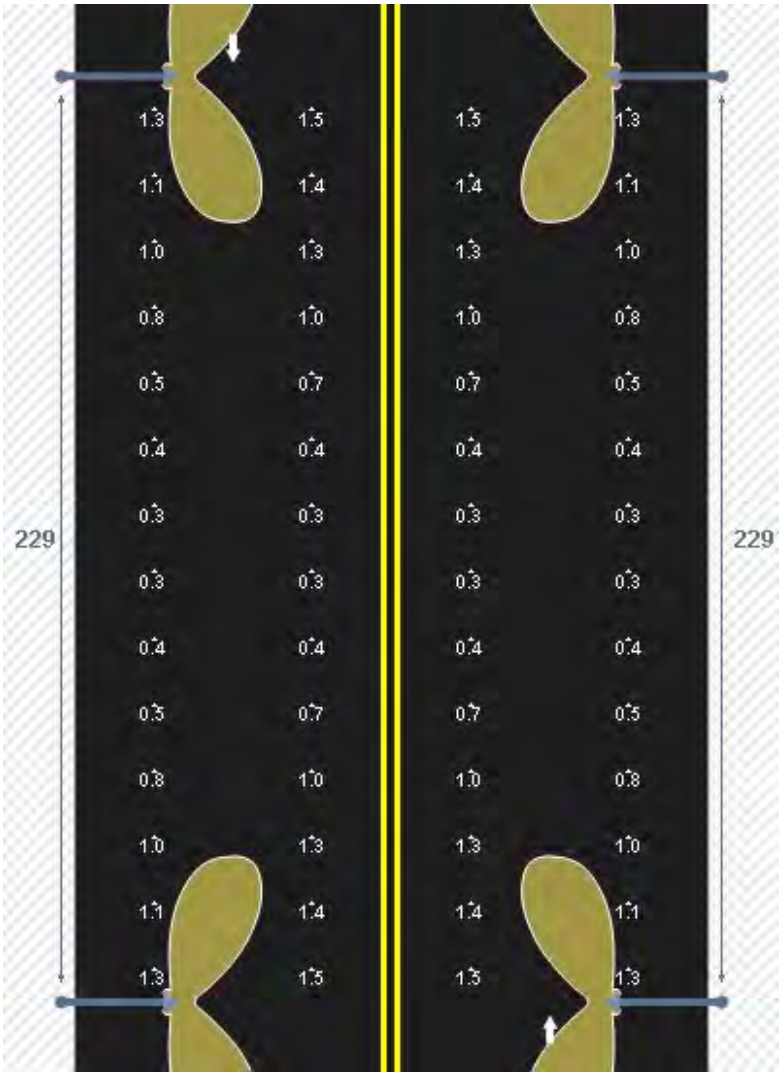

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	2.9	2.9	
Lv Ratio:	0.3	0.3	
STV:	4.4	4.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.5	1.5	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.3	5.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

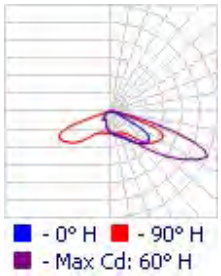
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	108.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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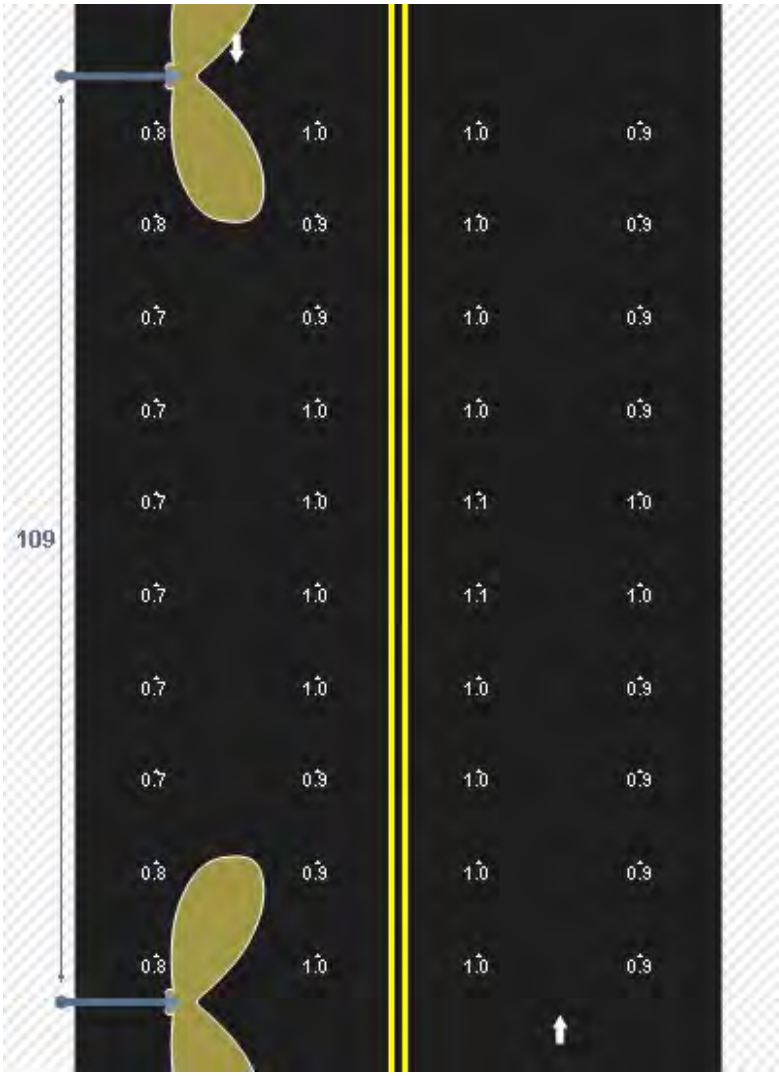

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.7	cd/m²
Max:	1	0.8	cd/m²
Min	0.6	0.5	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.6	

Illuminance	Left	Right	
Average:	0.9	1	fc
Max:	1	1.1	fc
Min	0.7	0.9	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.5	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

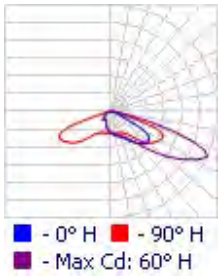
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

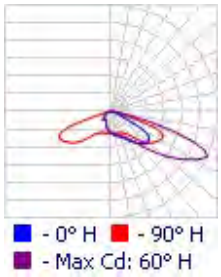
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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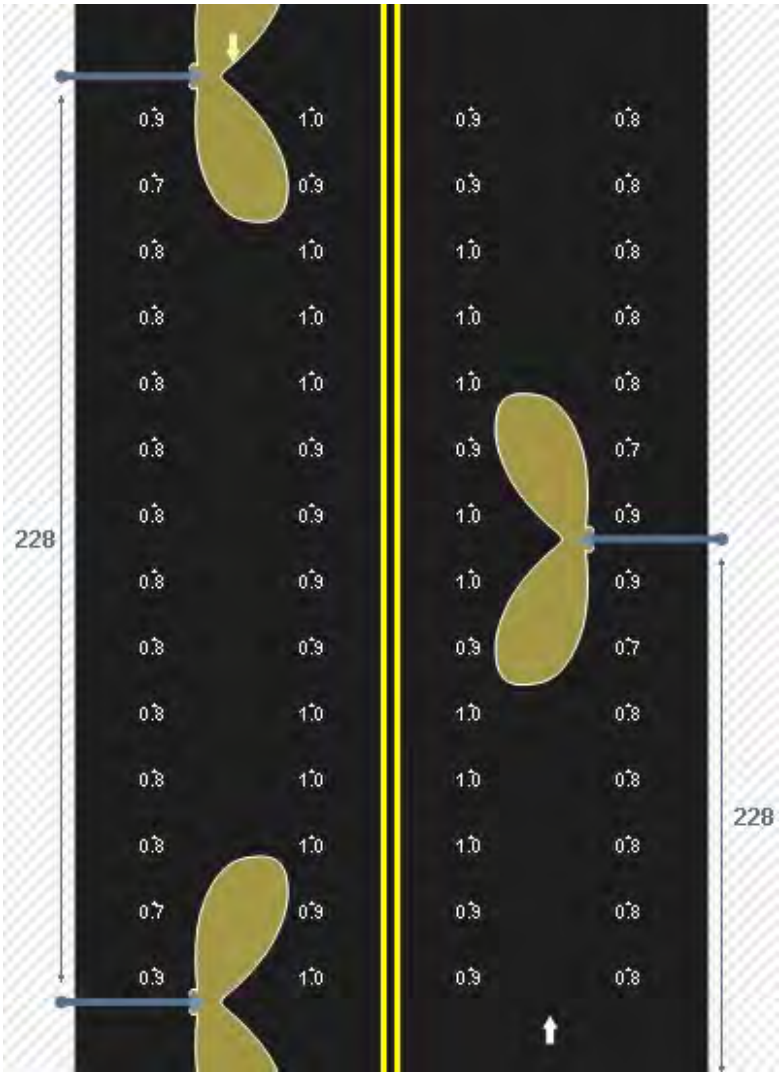

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

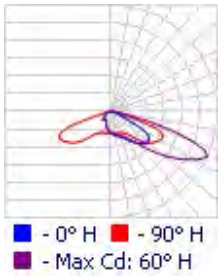
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

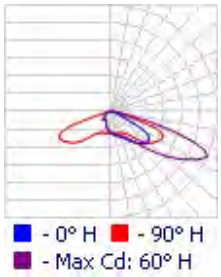
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	227.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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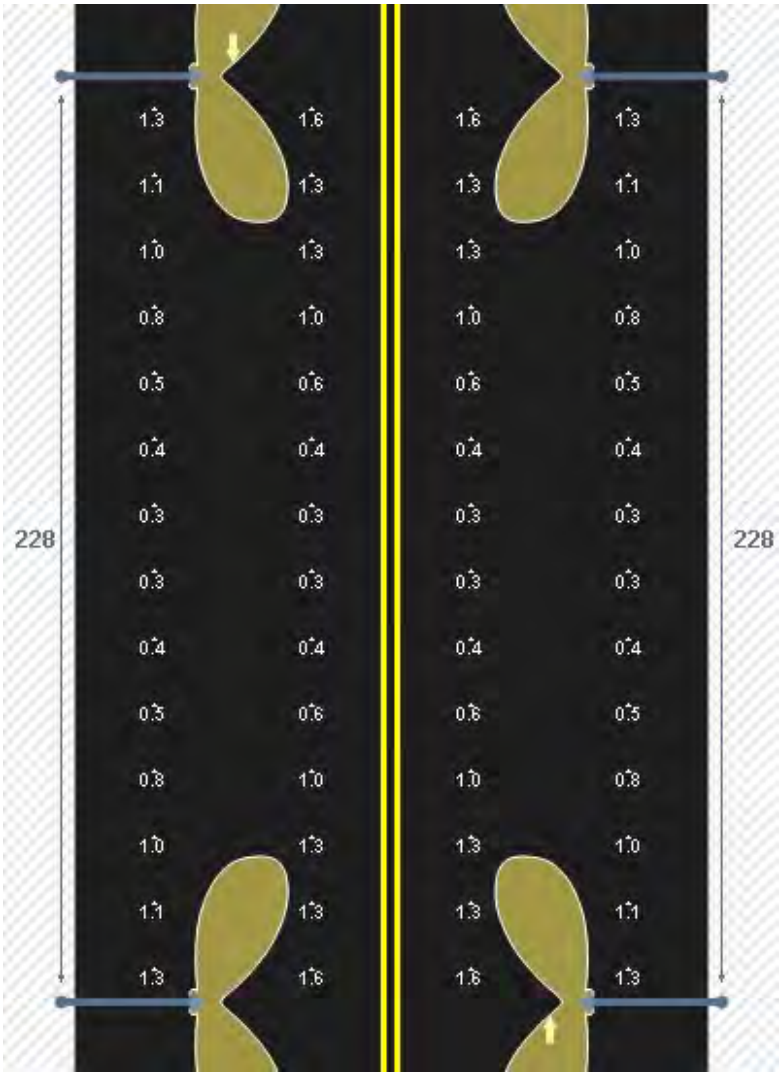

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	3.1	3.1	
Lv Ratio:	0.3	0.3	
STV:	4.4	4.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	3	3	
Max/Min:	5.3	5.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

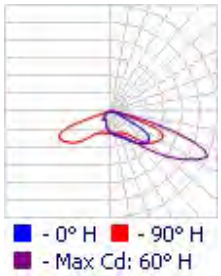
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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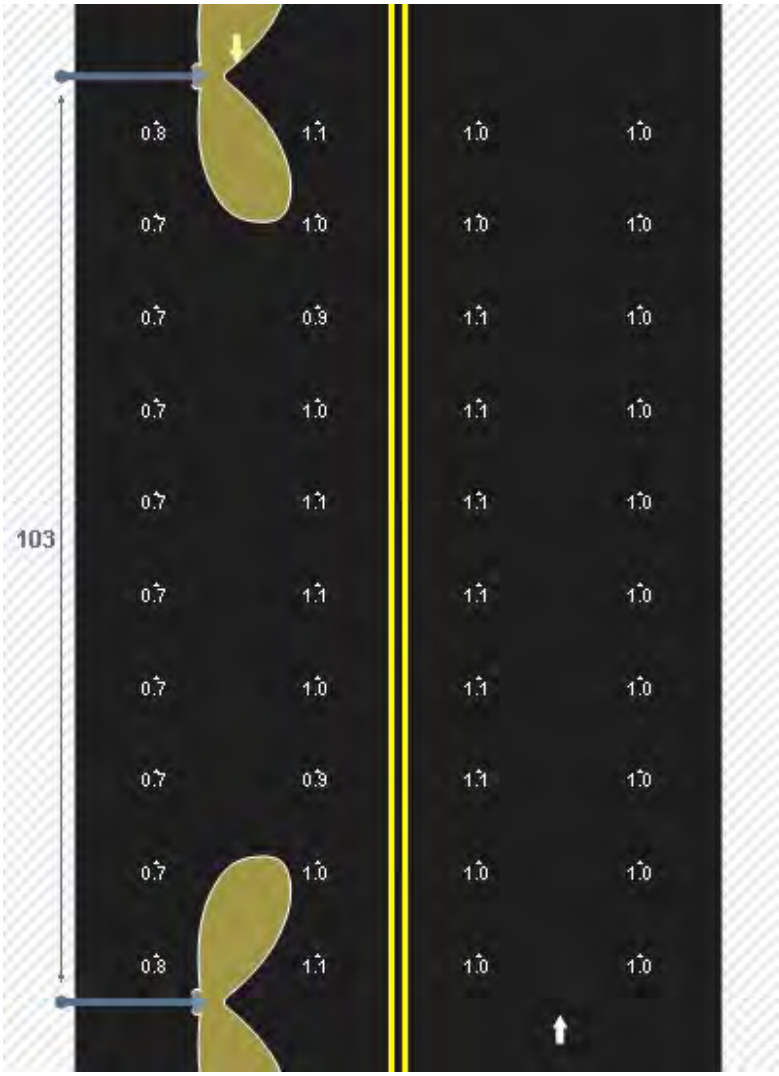

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.7	cd/m²
Max:	1	0.9	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.2	
Max/Min:	1.7	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.9	1.5	

Illuminance	Left	Right	
Average:	0.9	1	fc
Max:	1.1	1.1	fc
Min	0.7	1	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

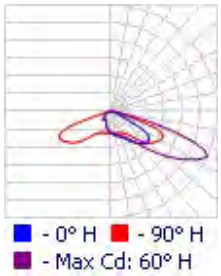
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

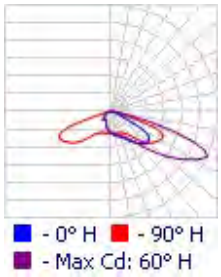
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	221.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	221.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

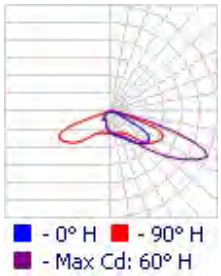
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

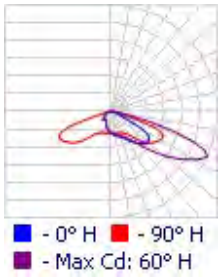
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	221.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	221.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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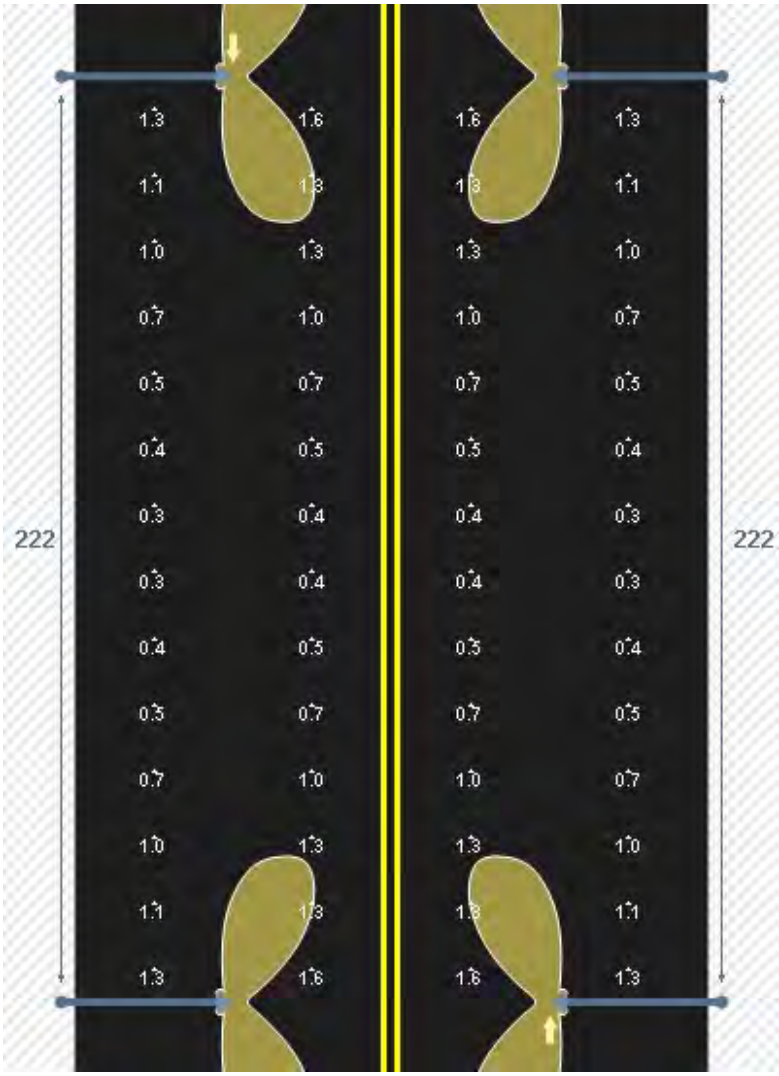

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.7	1.7	
Max/Min:	3	3	
Lv Ratio:	0.3	0.3	
STV:	4.2	4.2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	2.8	2.8	
Max/Min:	5	5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

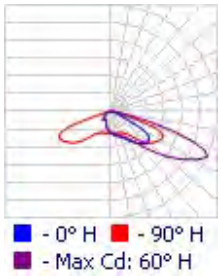
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	96.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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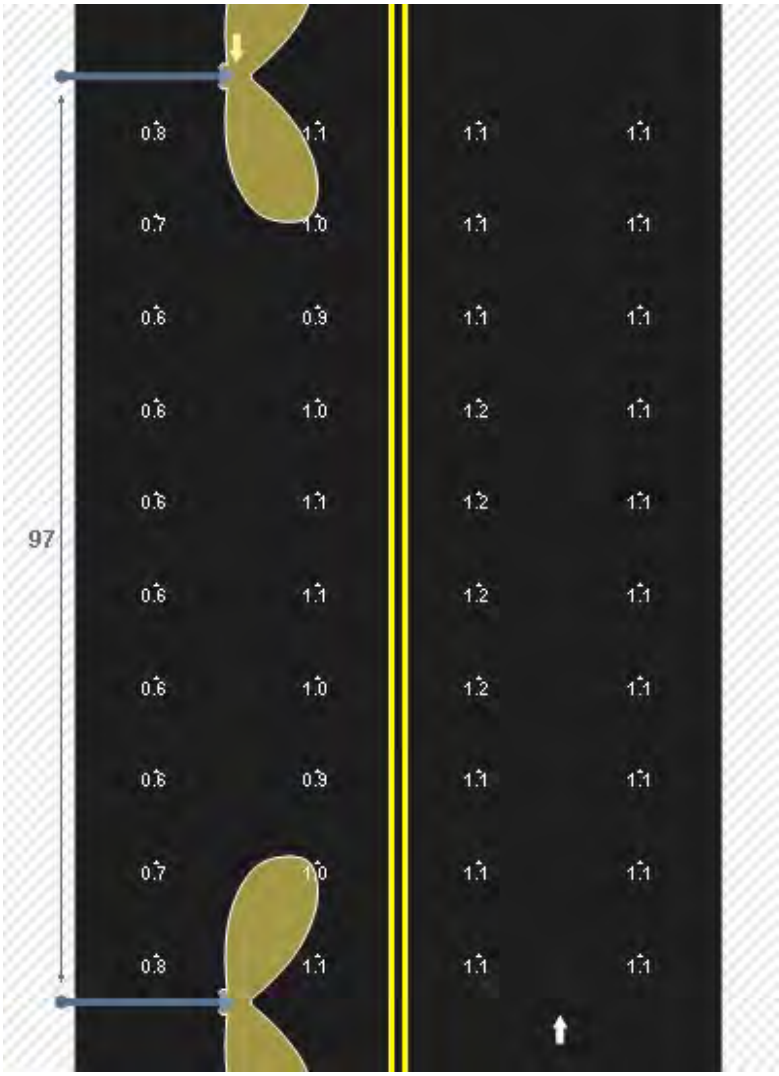

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	0.9	cd/m²
Min	0.6	0.7	cd/m²
Ave/Min:	1.3	1.2	
Max/Min:	1.8	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.8	1.4	

Illuminance	Left	Right	
Average:	0.9	1.1	fc
Max:	1.1	1.2	fc
Min	0.6	1.1	fc
Ave/Min:	1.4	1.1	
Max/Min:	1.8	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

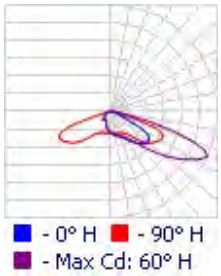
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

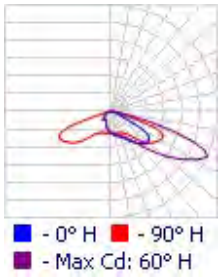
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	212.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	212.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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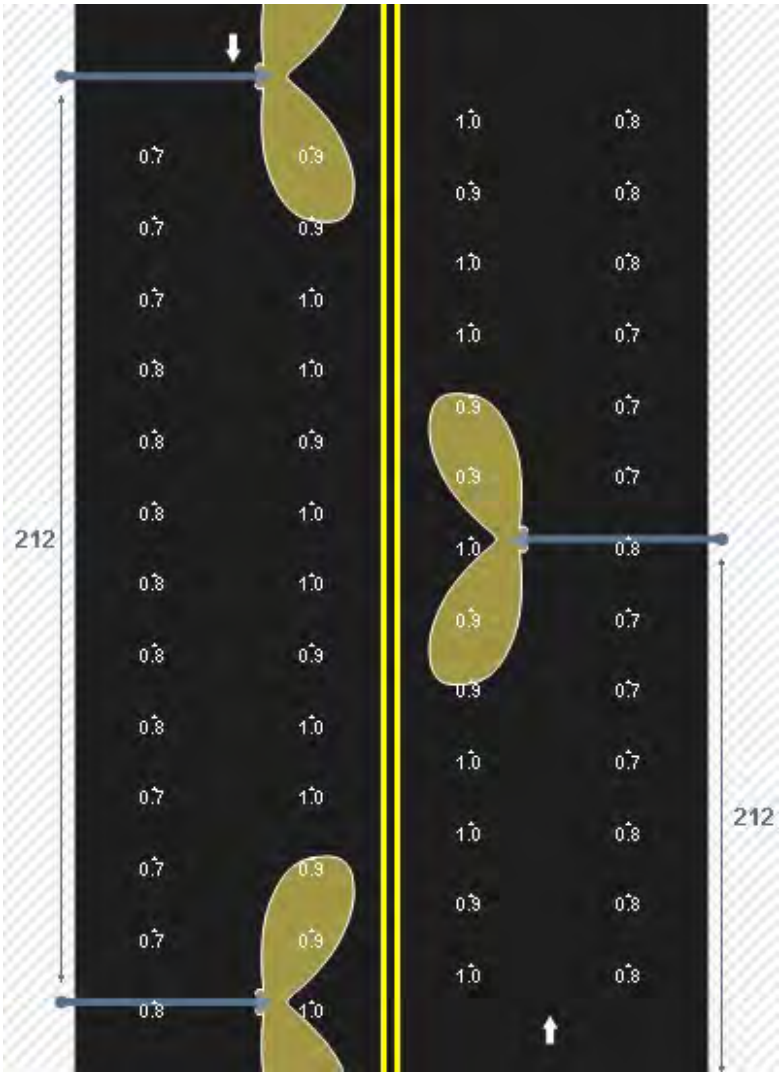

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

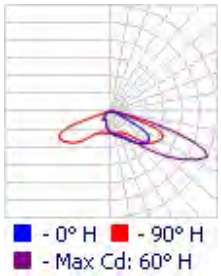
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

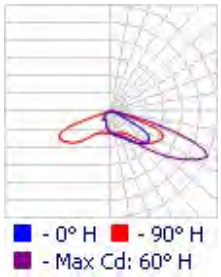
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	213.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	213.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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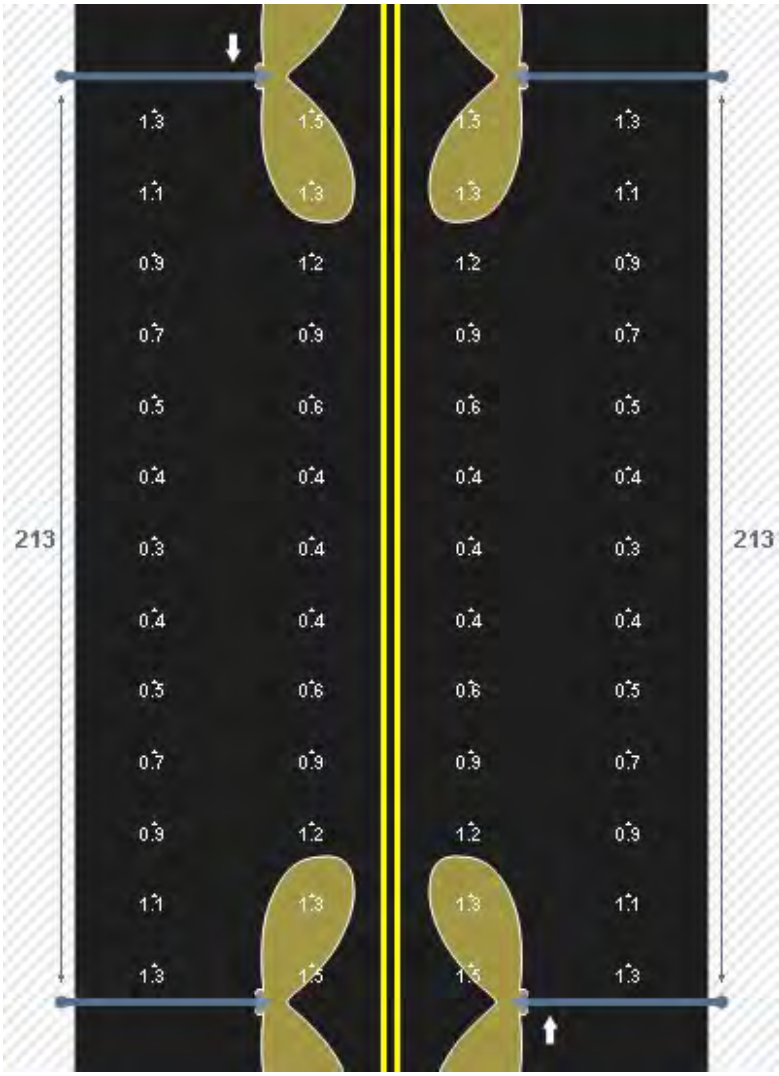

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.8	1.8	
Max/Min:	3.1	3.1	
Lv Ratio:	0.3	0.3	
STV:	3.9	3.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.6	1.6	fc
Min	0.3	0.3	fc
Ave/Min:	2.5	2.5	
Max/Min:	4.6	4.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

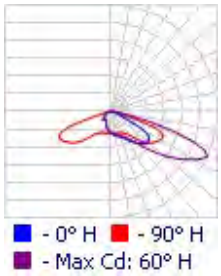
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	85.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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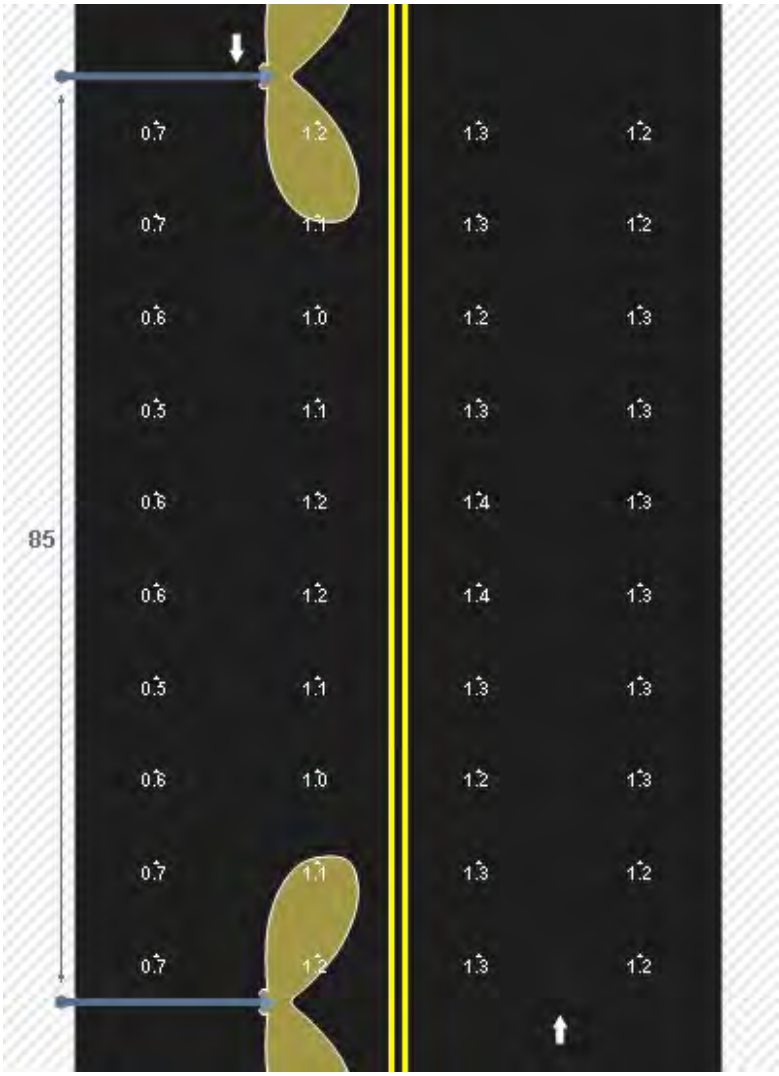

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.5	0.8	cd/m²
Ave/Min:	1.6	1.1	
Max/Min:	2.2	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.7	1.3	

Illuminance	Left	Right	
Average:	0.9	1.3	fc
Max:	1.2	1.4	fc
Min	0.6	1.2	fc
Ave/Min:	1.6	1	
Max/Min:	2.1	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 21, 2021

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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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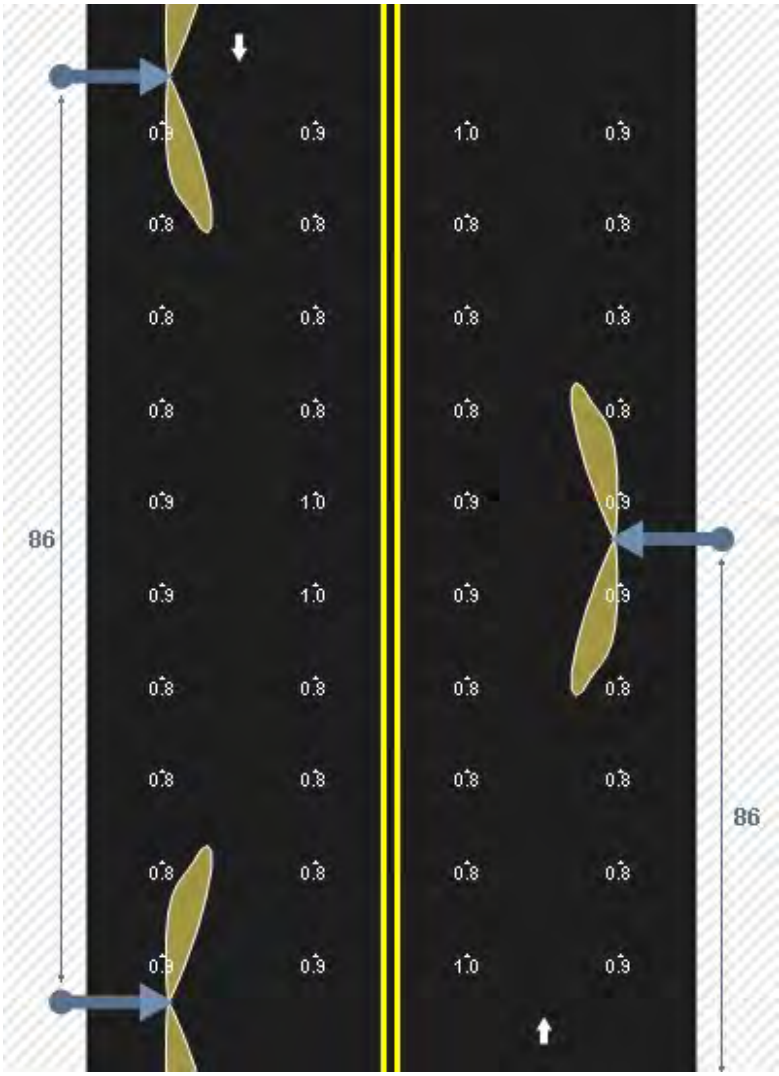

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 21, 2021

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Project Description

User Name
Company Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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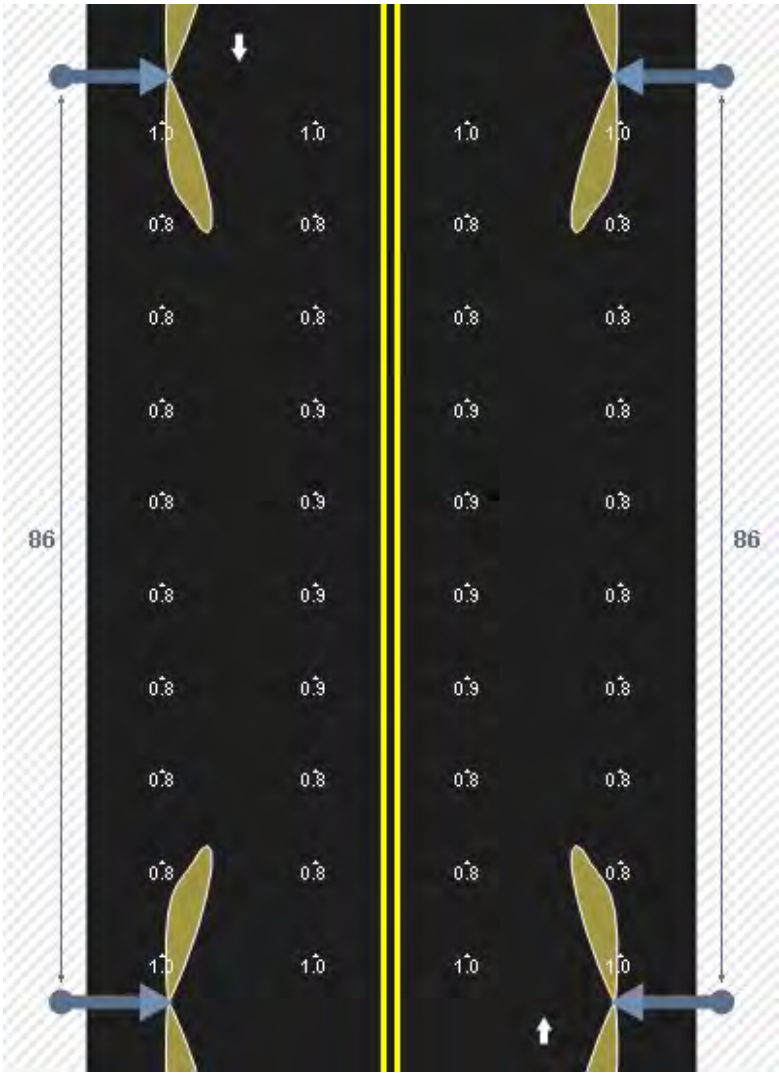

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	40.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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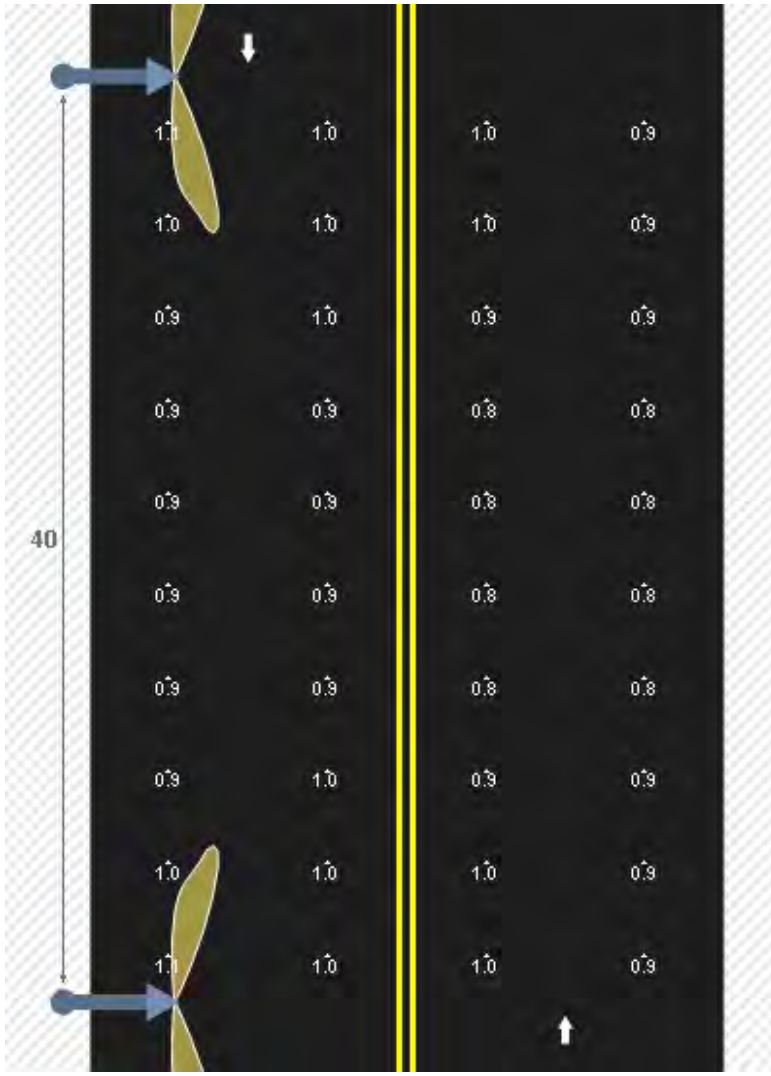

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	0.9	cd/m²
Max:	1.2	1	cd/m²
Min	1.1	0.8	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.1	1.4	
Lv Ratio:	0.1	0.2	
STV:	0.5	1.3	

Illuminance	Left	Right	
Average:	1	0.9	fc
Max:	1.1	1	fc
Min	0.9	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 21, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (23 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	87.28 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	87.28 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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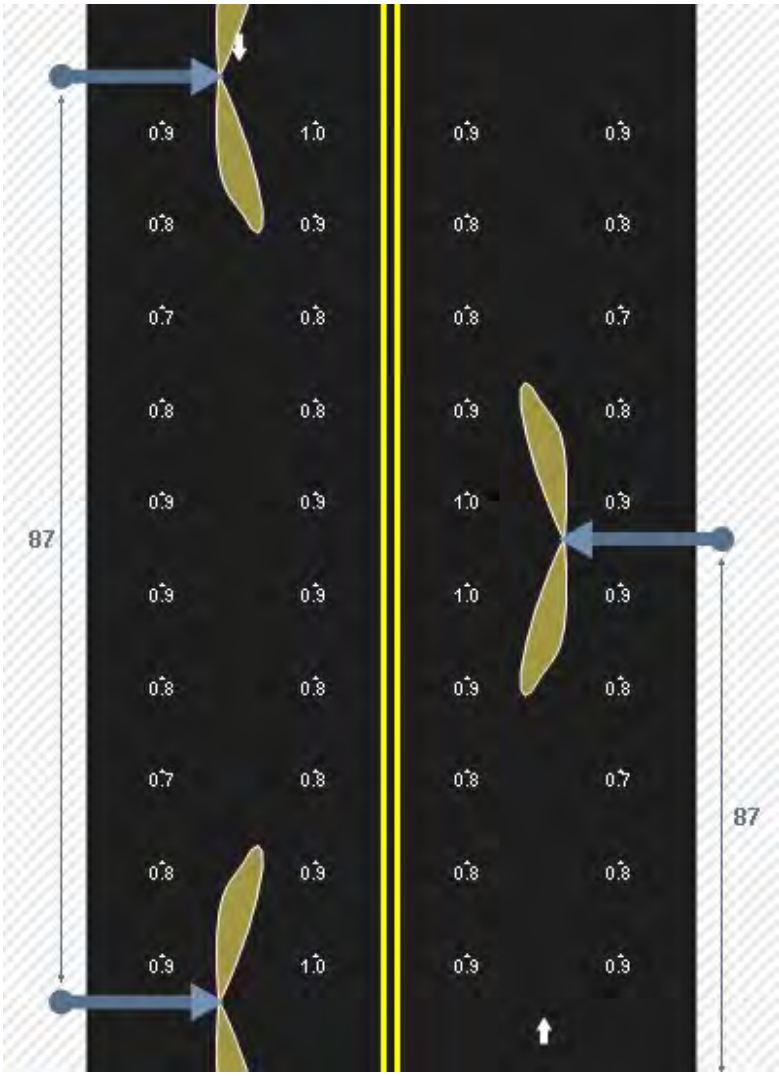

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.3	0.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 21, 2021

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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	87.28 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	87.28 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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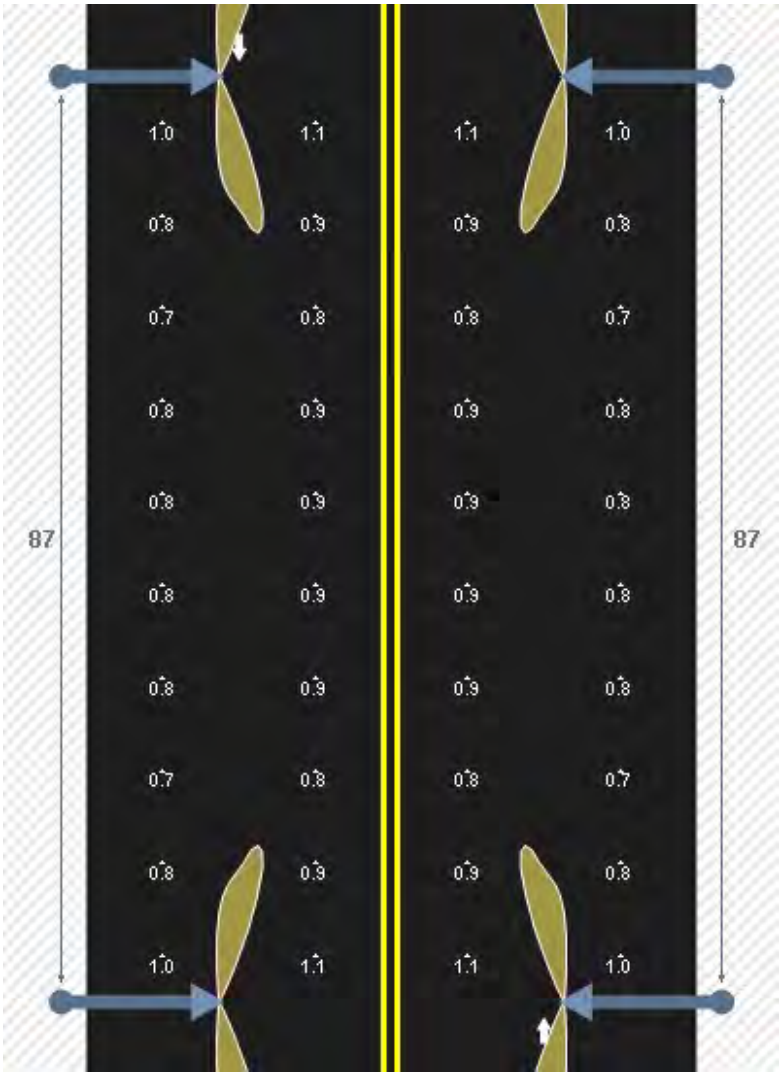

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	42.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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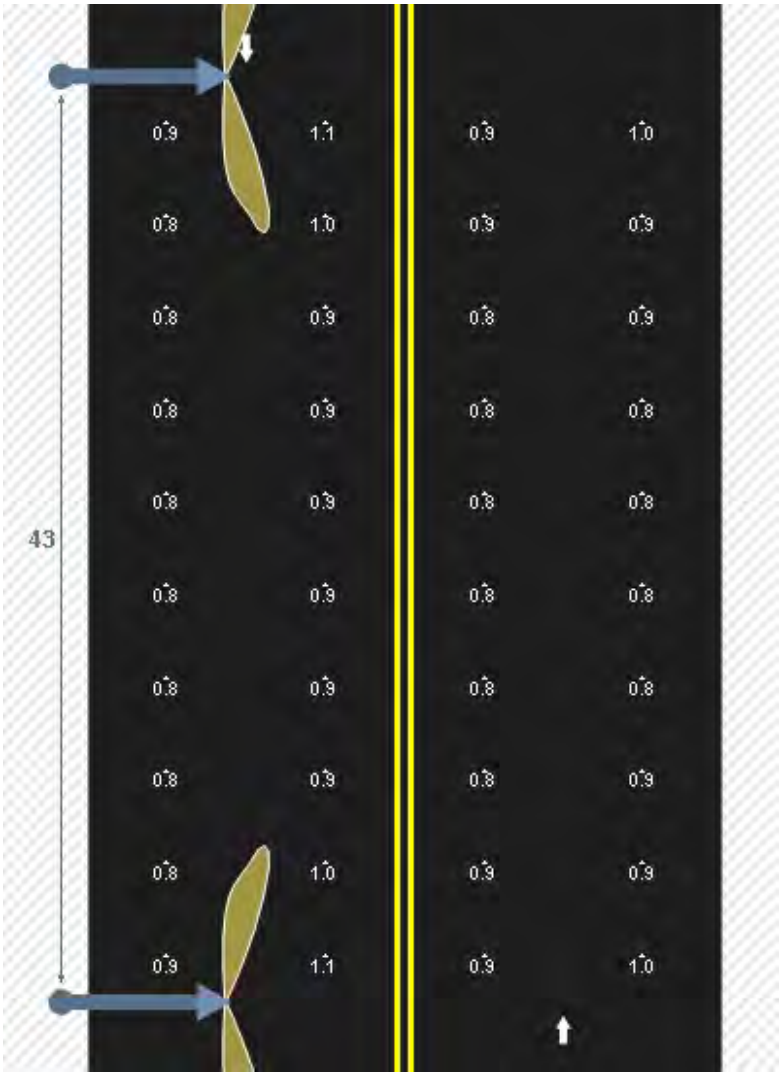

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	0.9	cd/m²
Max:	1.2	1	cd/m²
Min	0.9	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.6	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Wednesday, April 21, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	85.34 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	85.34 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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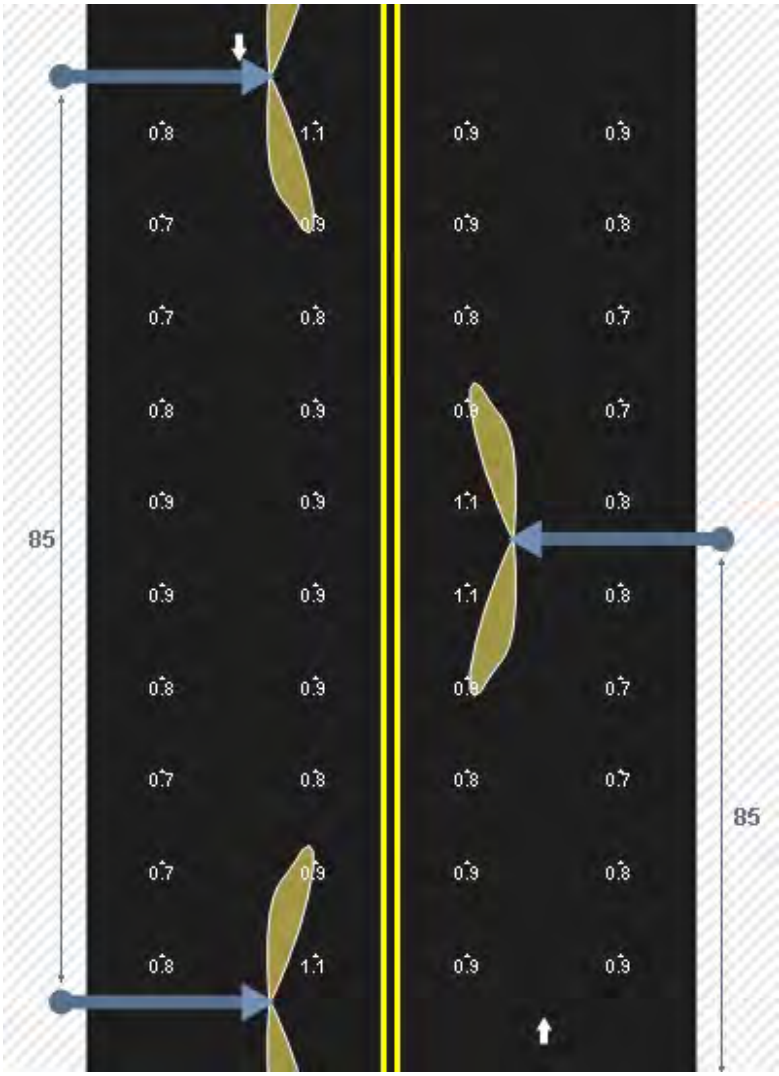

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 21, 2021

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Project Description

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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	85.34 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	85.34 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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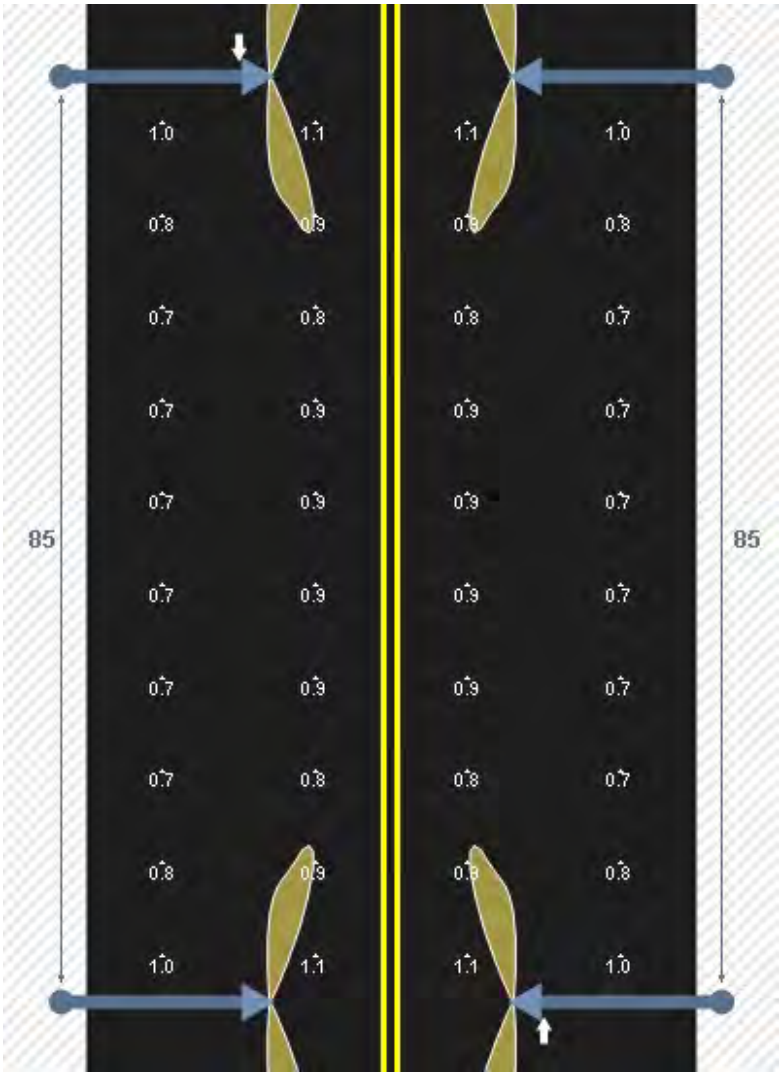

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	40.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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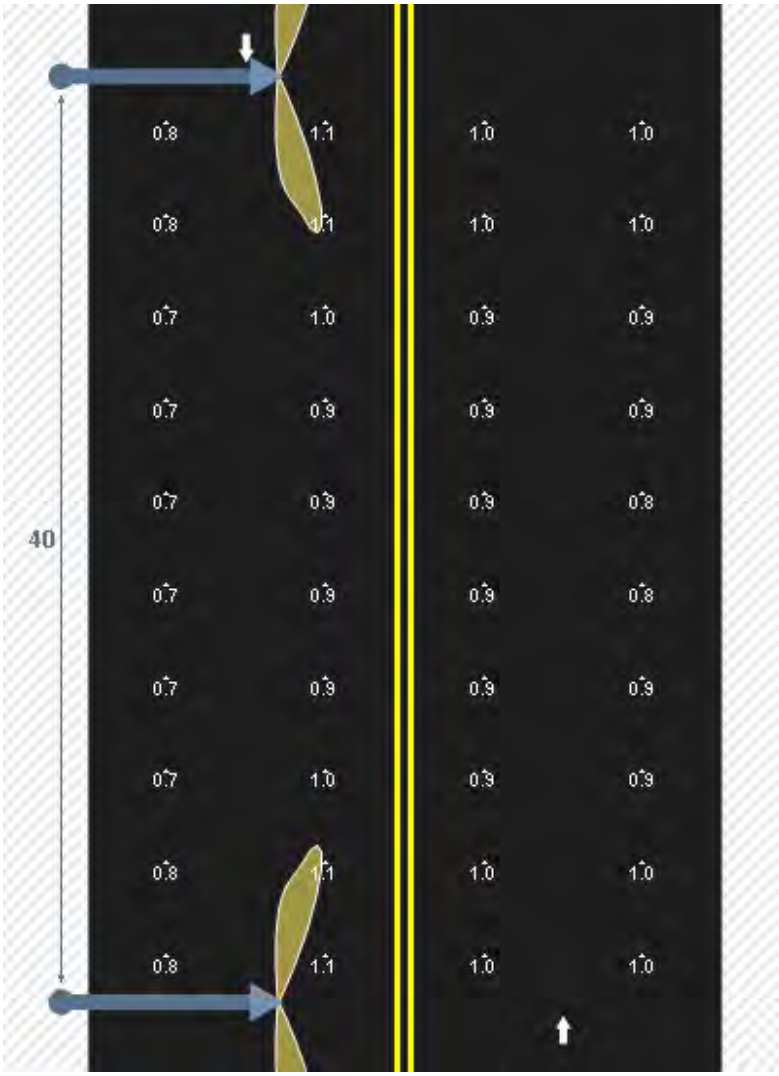

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.3	1.1	cd/m²
Min	0.7	0.9	cd/m²
Ave/Min:	1.4	1.2	
Max/Min:	1.8	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1	fc
Min	0.7	0.8	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.7	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 21, 2021

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Project Description

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Company Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	78.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	78.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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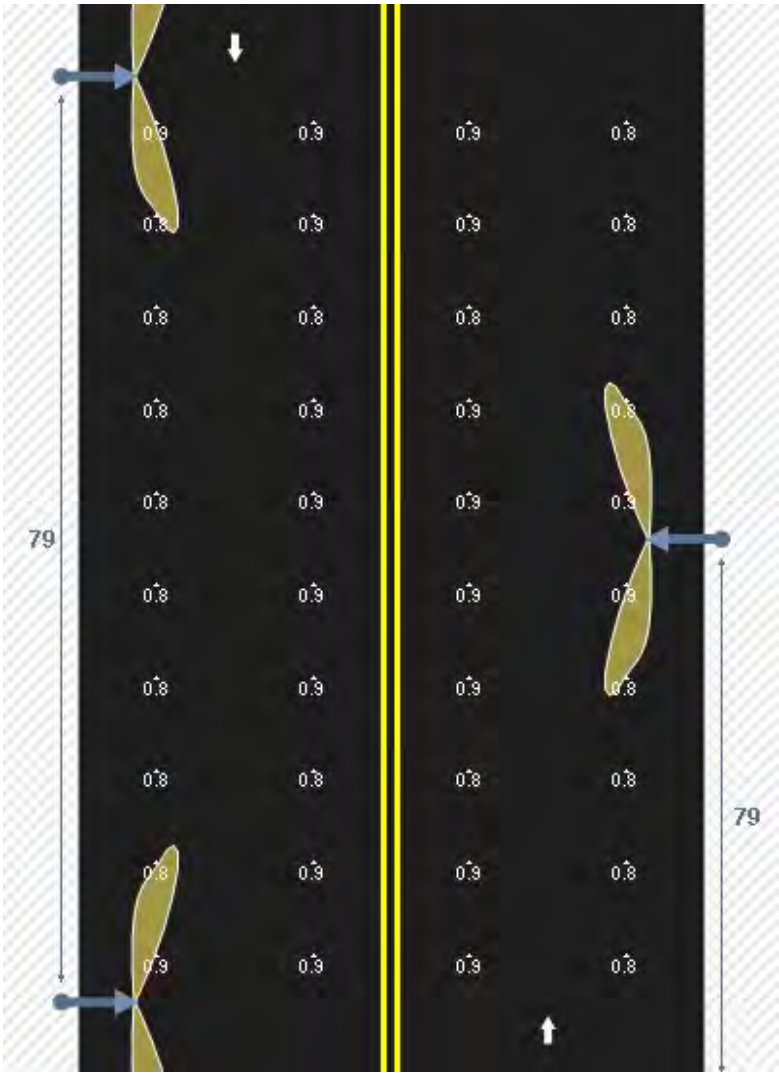

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.1	1.1	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 21, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	78.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	78.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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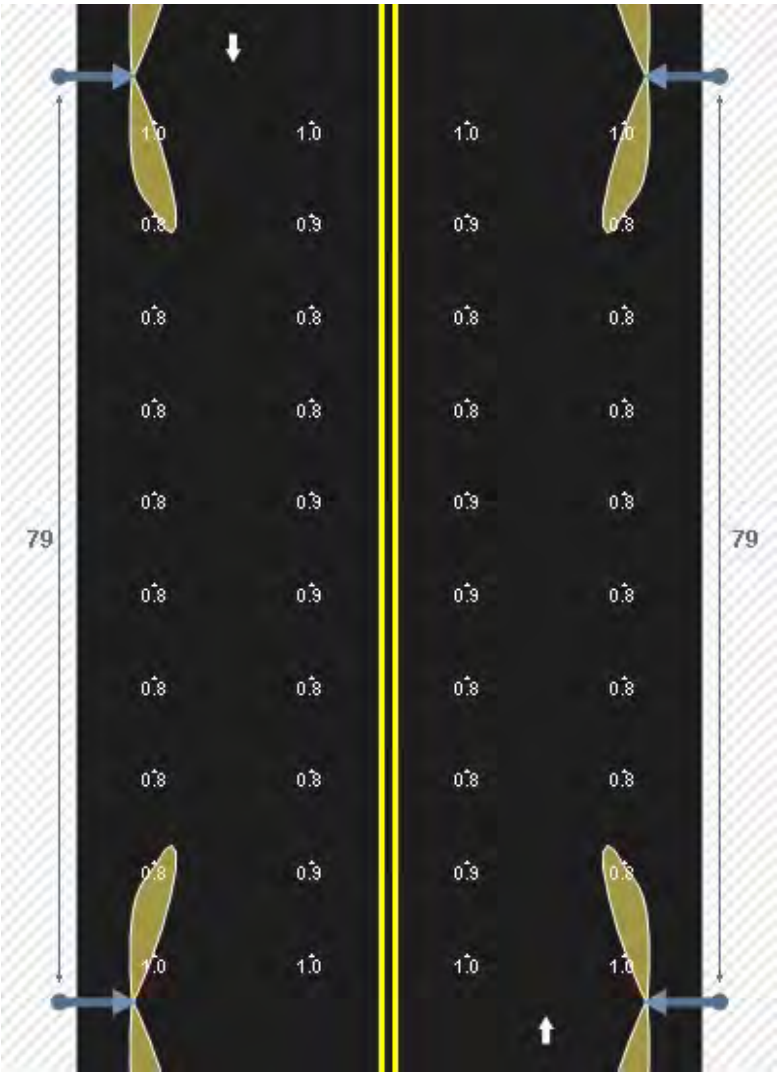

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (31 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	32.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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Visual - Roadway Tool

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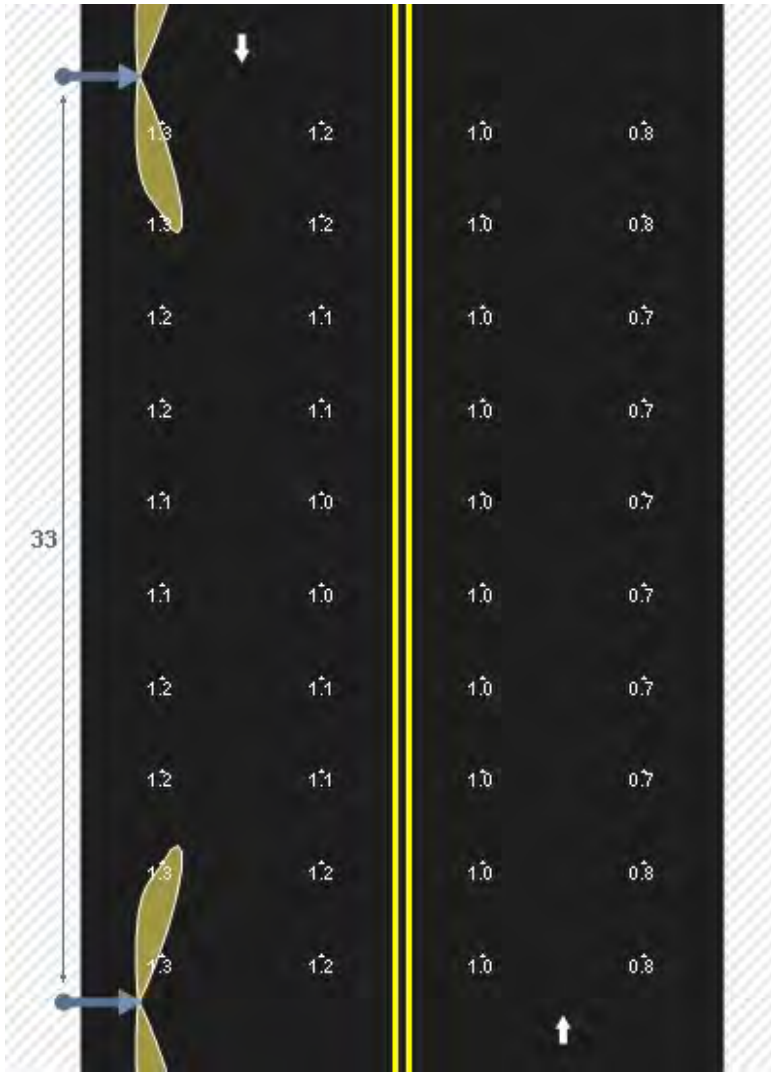

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.4	0.8	cd/m²
Max:	1.5	0.9	cd/m²
Min	1.2	0.6	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.5	
Lv Ratio:	0.2	0.3	
STV:	0.8	2.8	

Illuminance	Left	Right	
Average:	1.2	0.9	fc
Max:	1.3	1	fc
Min	1	0.7	fc
Ave/Min:	1.1	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Wednesday, April 21, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	79.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	79.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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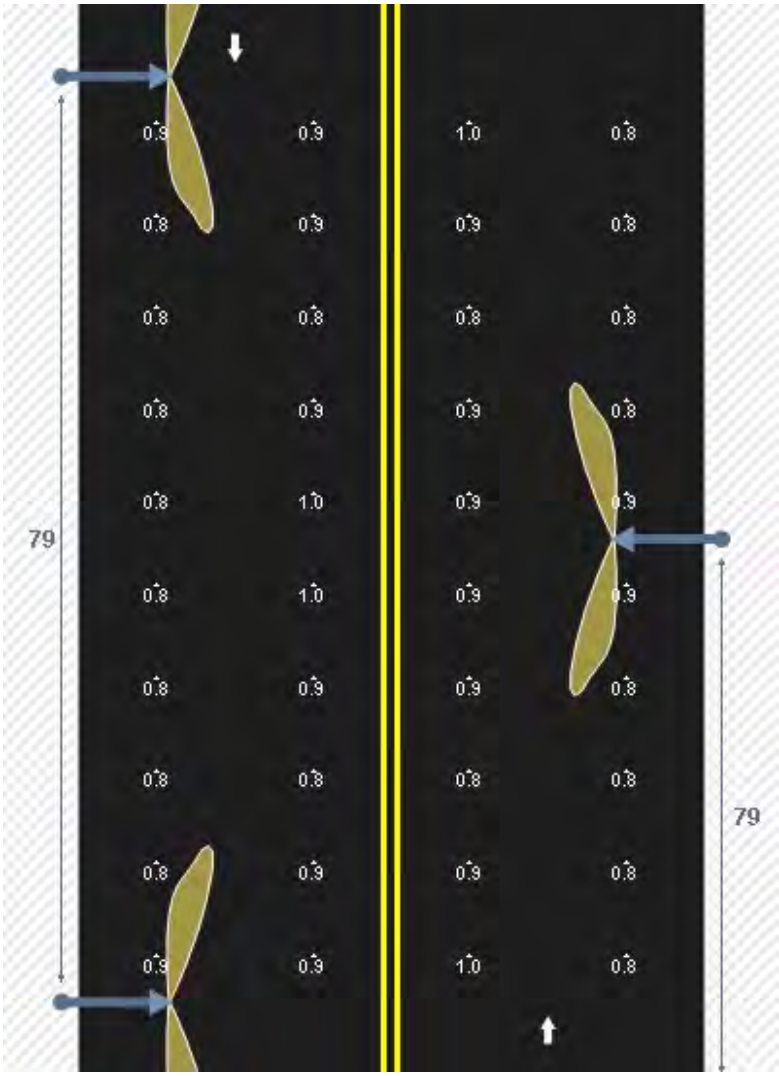

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 21, 2021

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Project Description

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Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	79.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	79.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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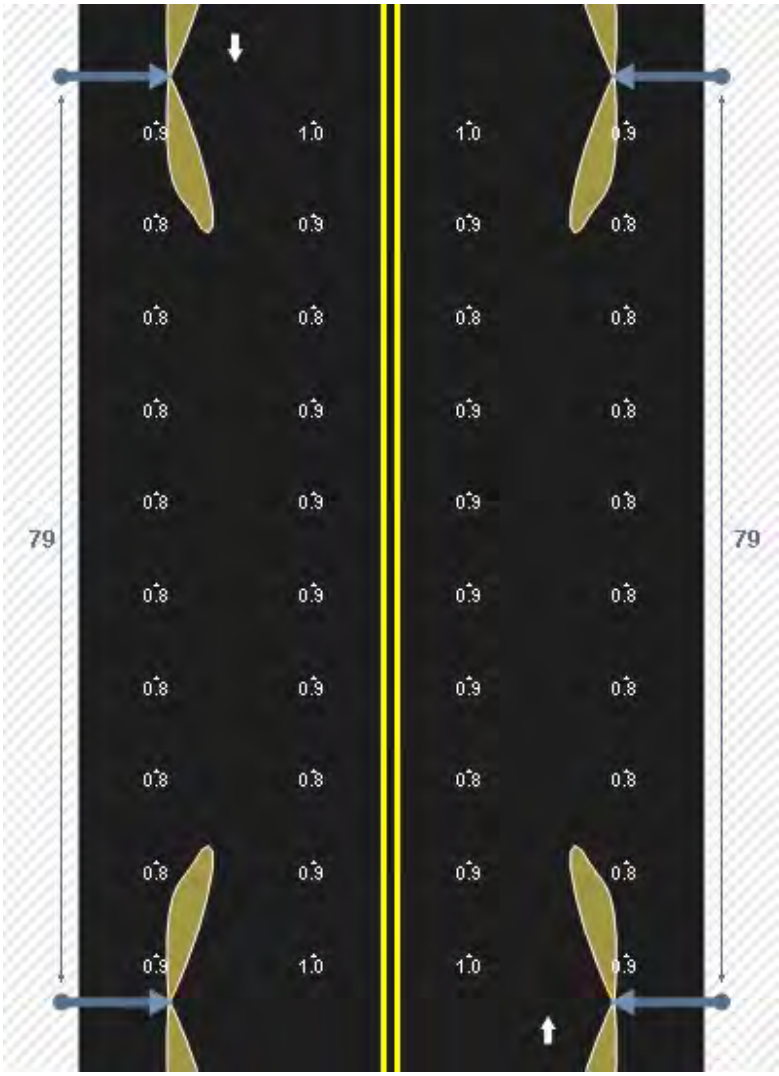

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (29 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	35.32 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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Visual - Roadway Tool

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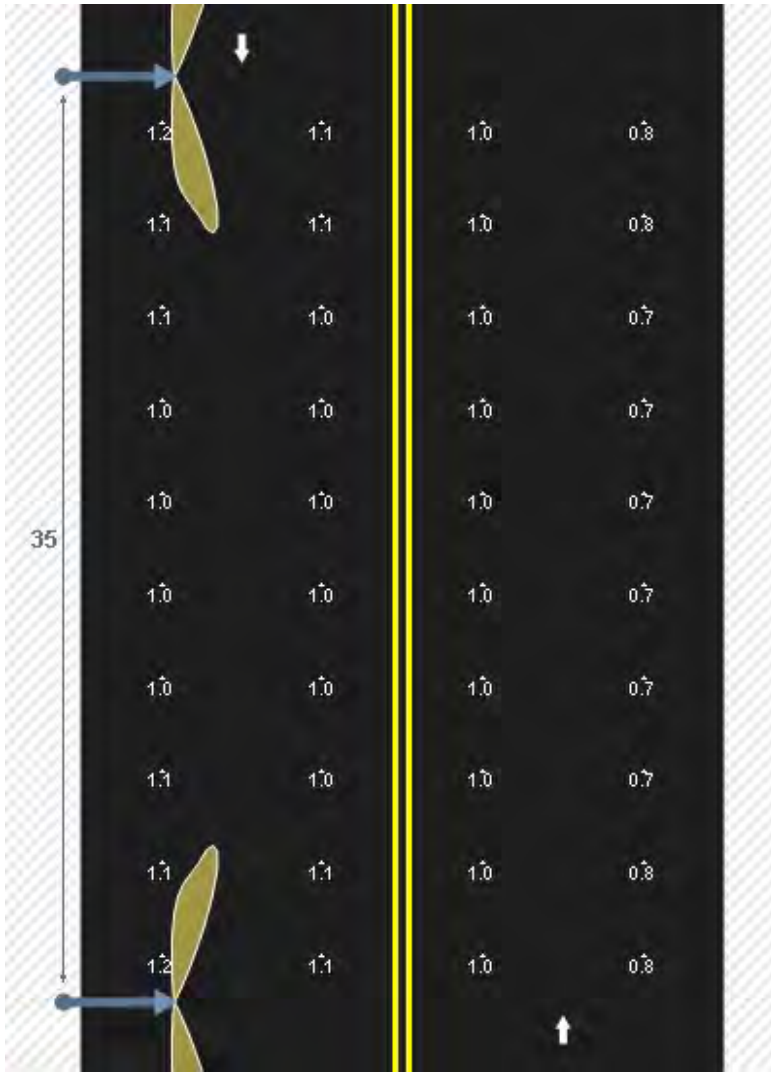

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	0.8	cd/m²
Max:	1.3	1	cd/m²
Min	1.2	0.6	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.1	1.6	
Lv Ratio:	0.2	0.3	
STV:	0.5	2.4	

Illuminance	Left	Right	
Average:	1.1	0.9	fc
Max:	1.2	1	fc
Min	1	0.7	fc
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 21, 2021

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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	80.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	80.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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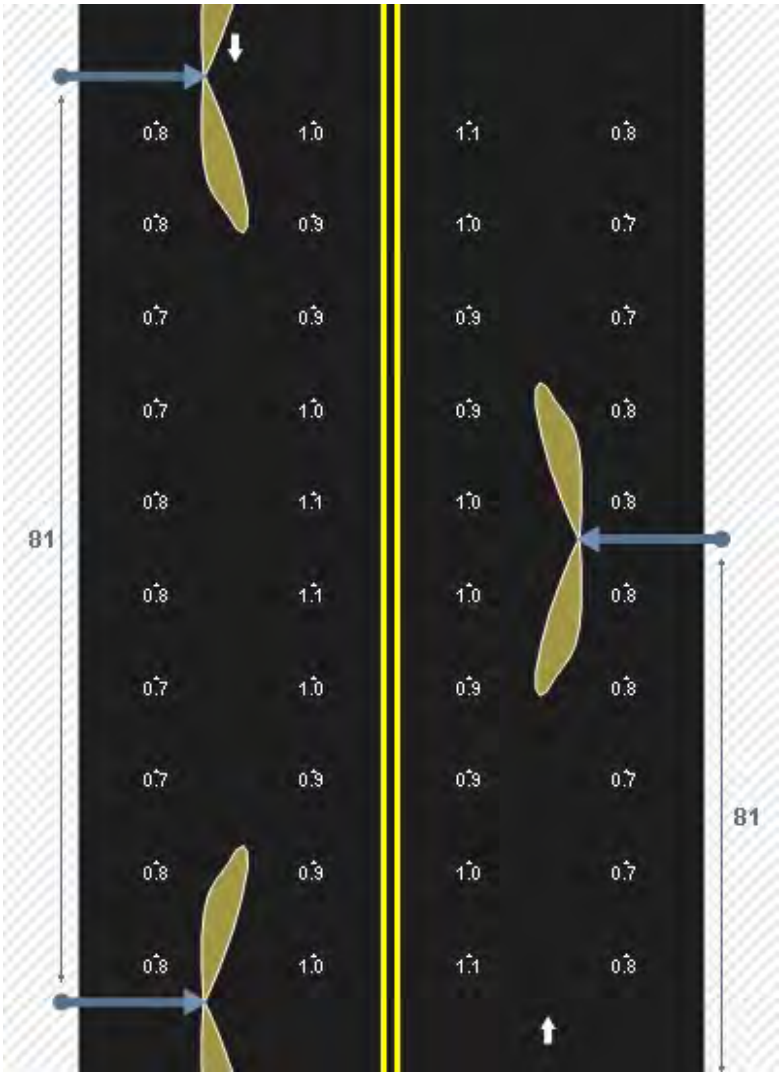

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 21, 2021

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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	80.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	80.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.8	Lamp Count:	18

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Visual - Roadway Tool

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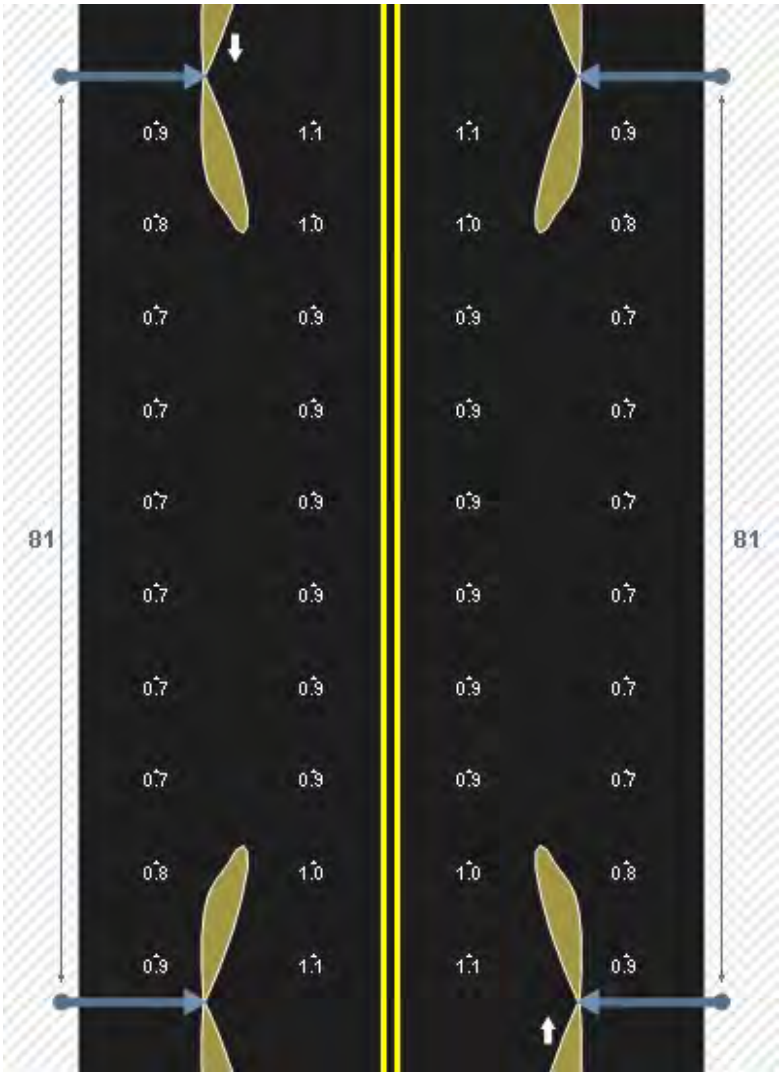

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.7	0.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

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Project Description

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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (27 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	37.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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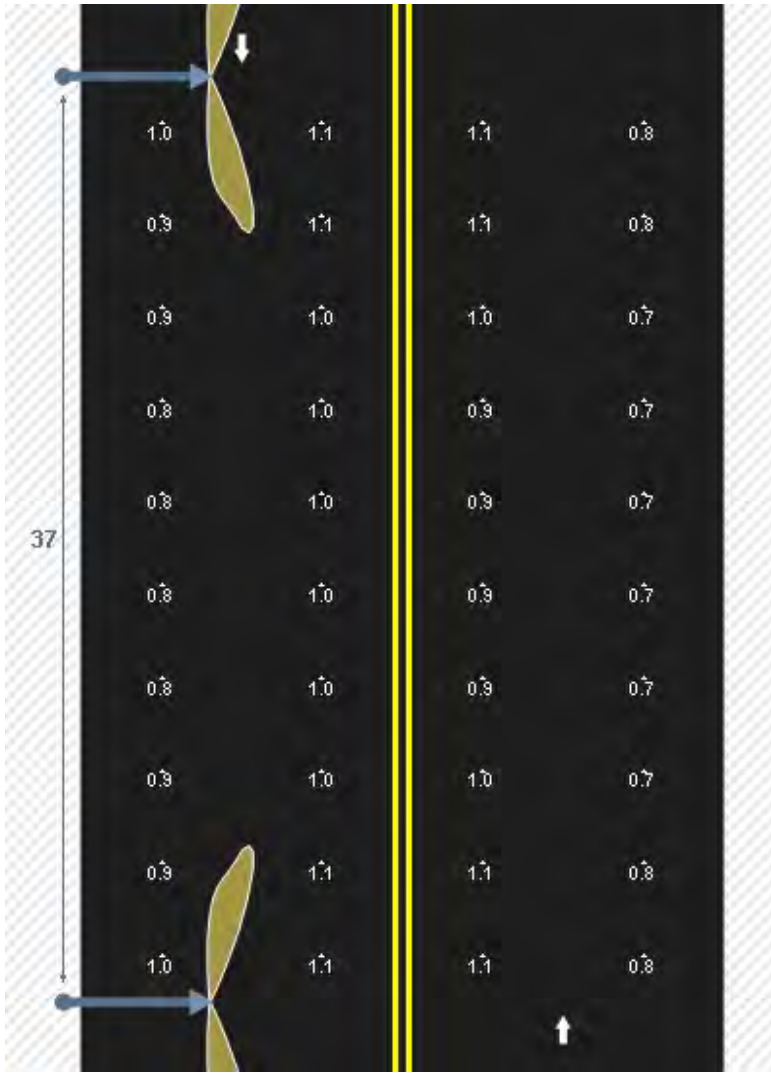

Illuminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	1.1	0.8	cd/m²	Average:	1	0.9	fc	Average:	--	--	fc
Max:	1.3	1	cd/m²	Max:	1.1	1.1	fc	Min	--	--	fc
Min	0.9	0.6	cd/m²	Min	0.8	0.7	fc	Ave/Min:	--	--	
Ave/Min:	1.2	1.3		Ave/Min:	1.2	1.2		Ev Min:	--	--	fc
Max/Min:	1.4	1.7		Max/Min:	1.3	1.5		**Bikelane**			
Lv Ratio:	0.2	0.2						Average:	--	--	fc
STV:	0.4	2						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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Project Description

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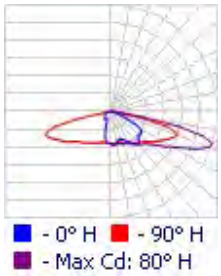
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

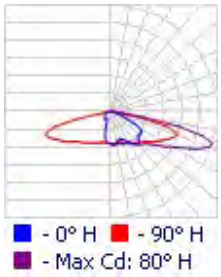
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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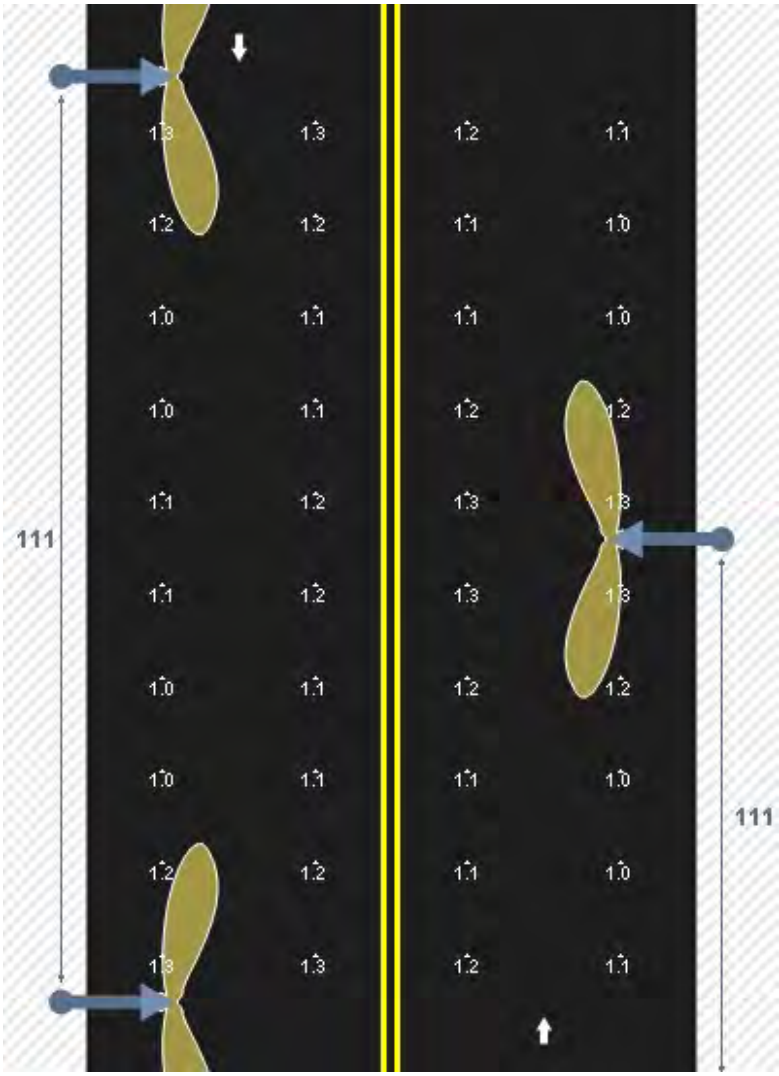
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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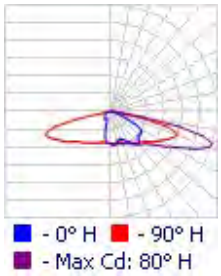
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

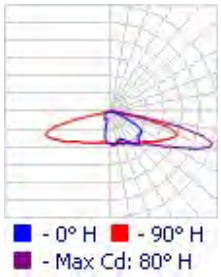
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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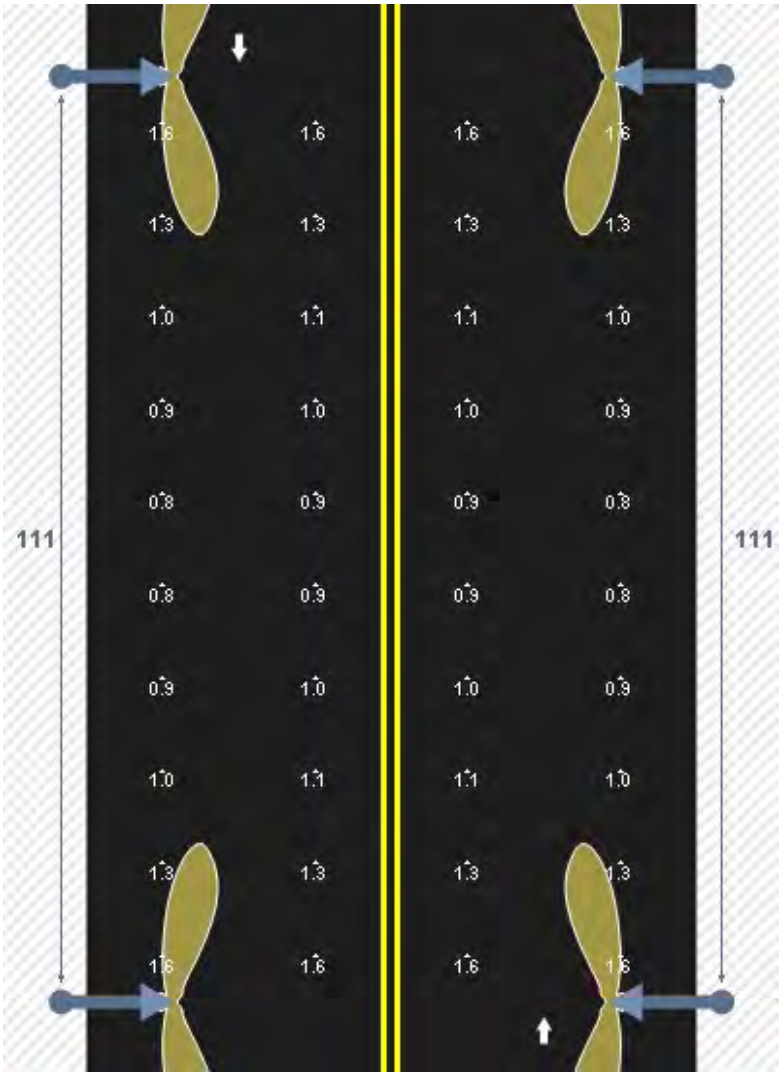

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.4	1.4	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Project Description

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Your Email

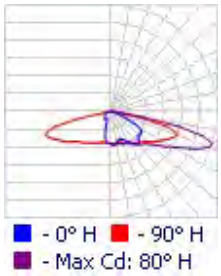
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	52.57 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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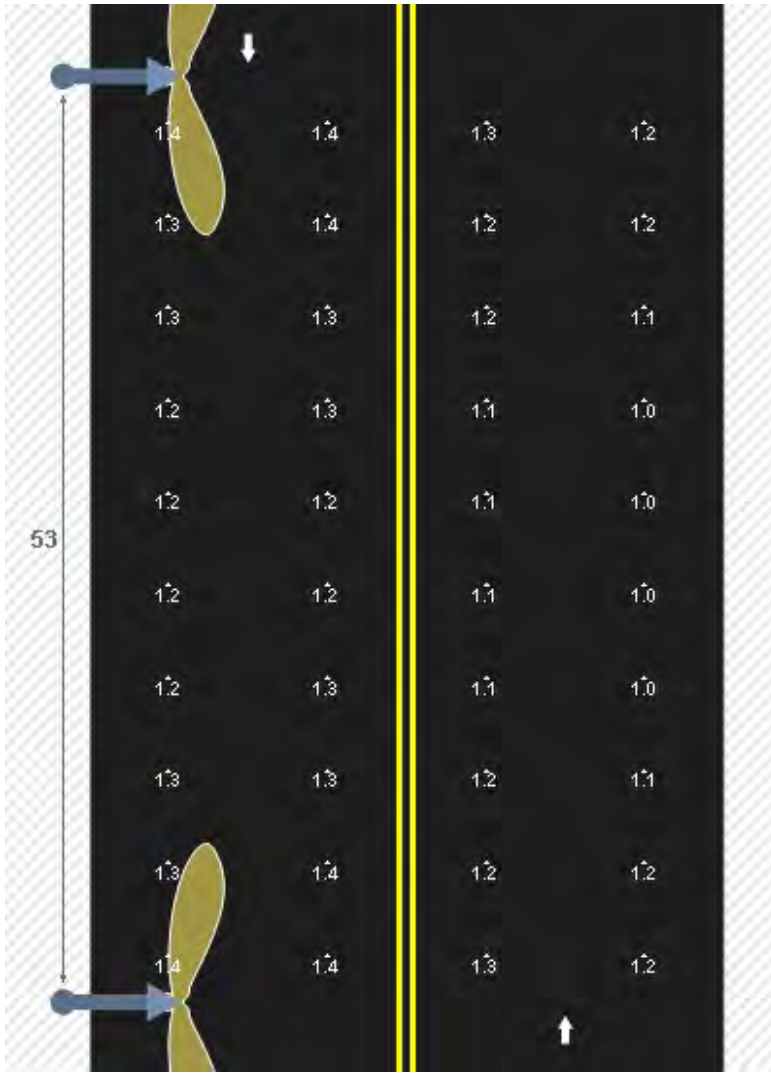

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1	cd/m²
Max:	1.4	1.2	cd/m²
Min	1.3	0.9	cd/m²
Ave/Min:	1	1.2	
Max/Min:	1	1.4	
Lv Ratio:	0.1	0.2	
STV:	0.7	1.1	

Illuminance	Left	Right	
Average:	1.3	1.2	fc
Max:	1.4	1.3	fc
Min	1.2	1	fc
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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Your Email

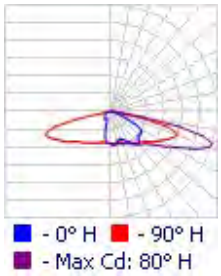
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (19 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

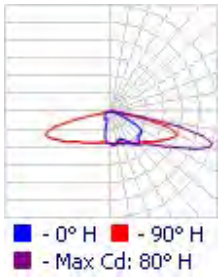
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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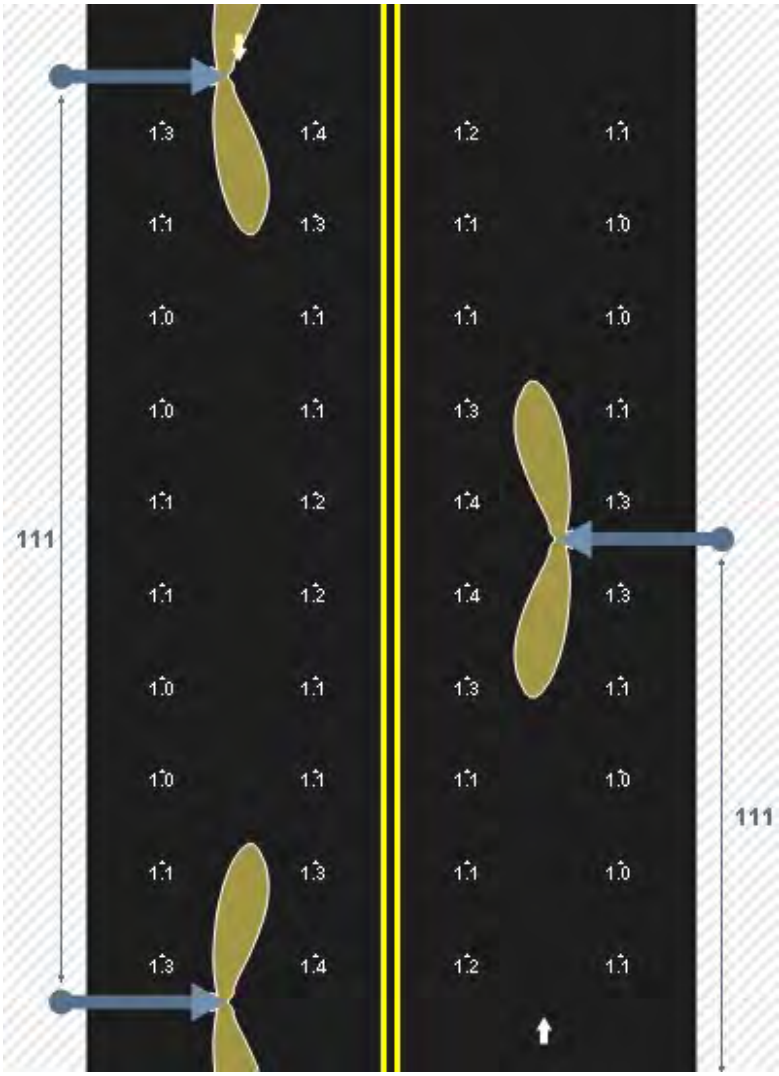

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.3	1.3	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

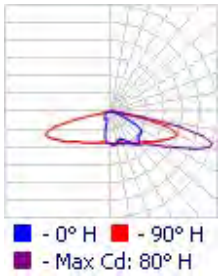
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

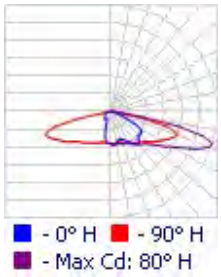
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	111.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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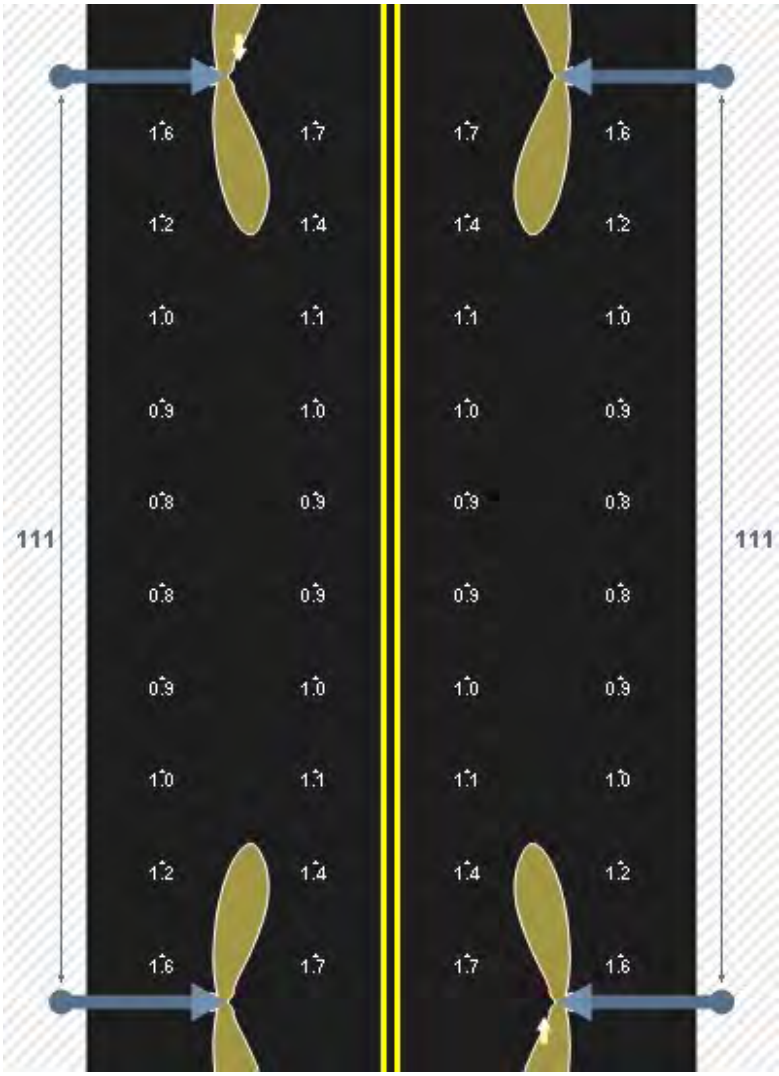

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.7	1.7	fc
Min	0.8	0.8	fc
Ave/Min:	1.4	1.4	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

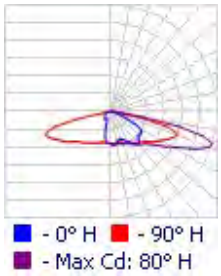
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (19 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	53.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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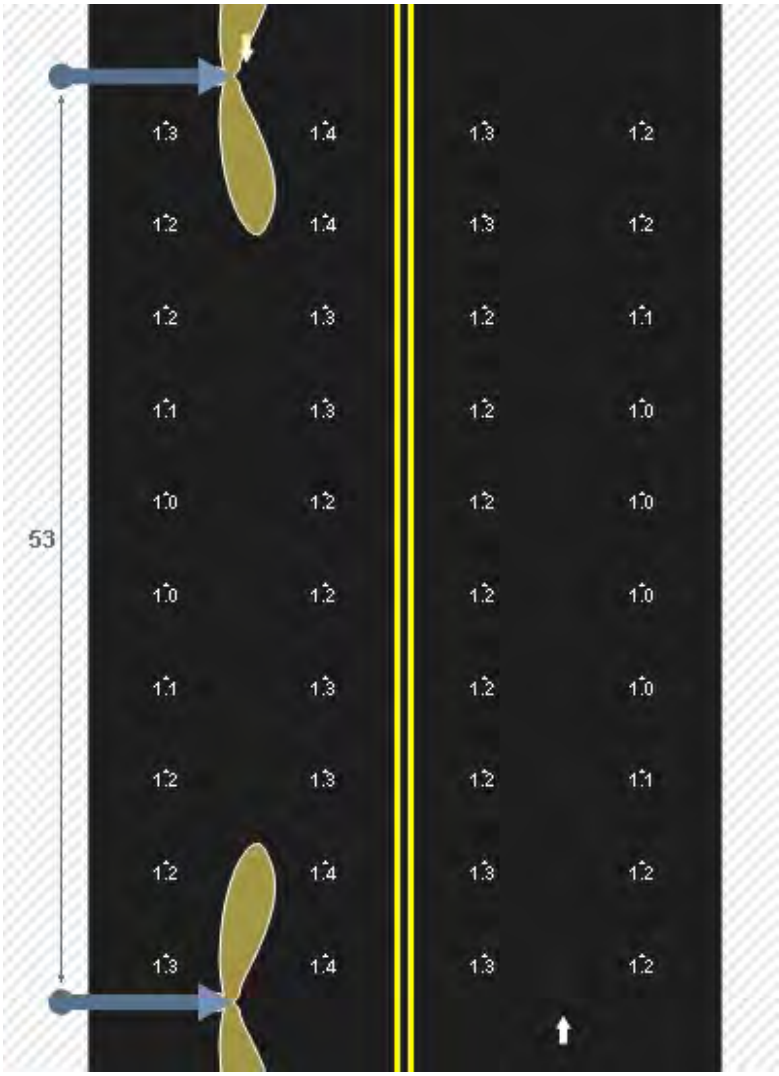

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.1	cd/m²
Max:	1.4	1.2	cd/m²
Min	1.2	0.9	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.3	fc
Min	1.1	1	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

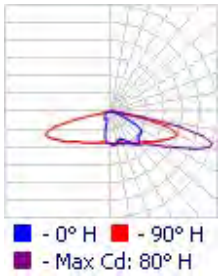
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (19 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

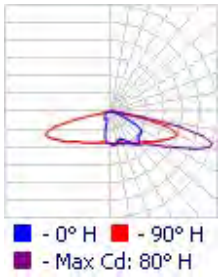
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	110.45 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	110.45 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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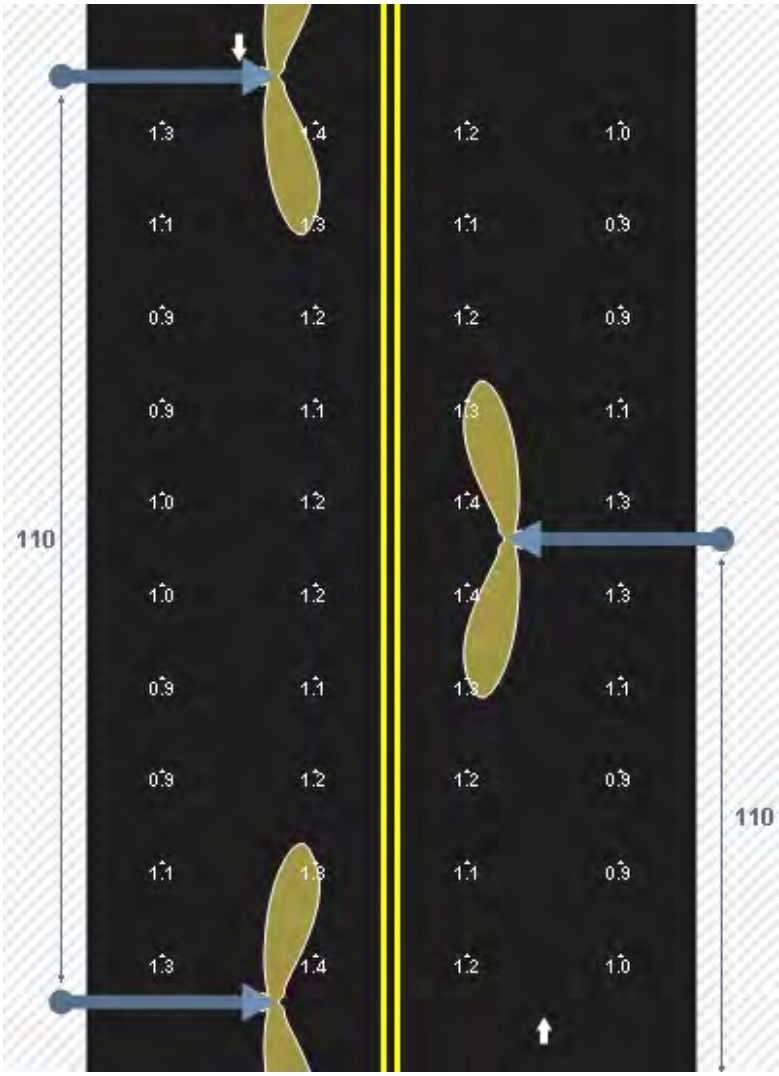

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

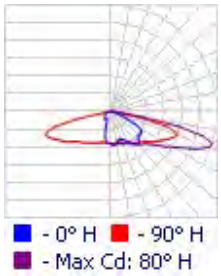
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

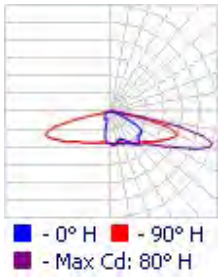
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	110.45 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	110.45 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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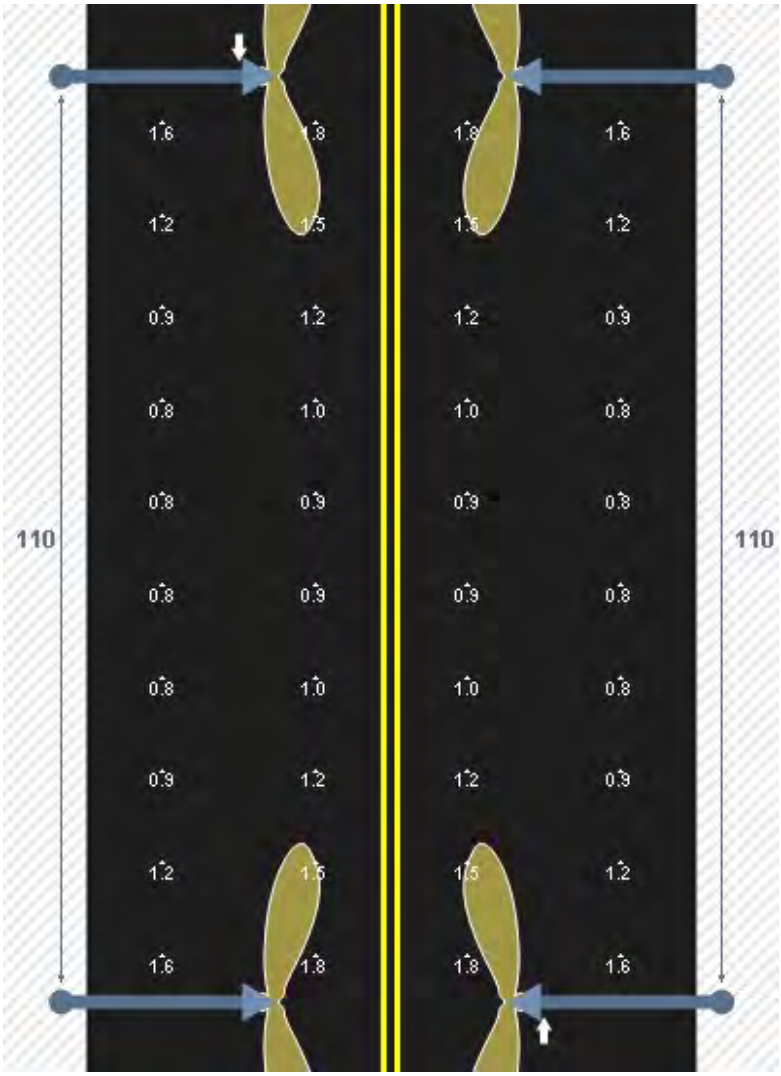

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.5	1.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.8	1.8	fc
Min	0.8	0.8	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

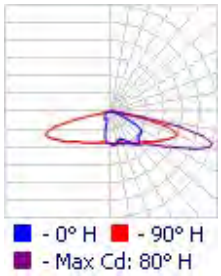
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (19 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	54.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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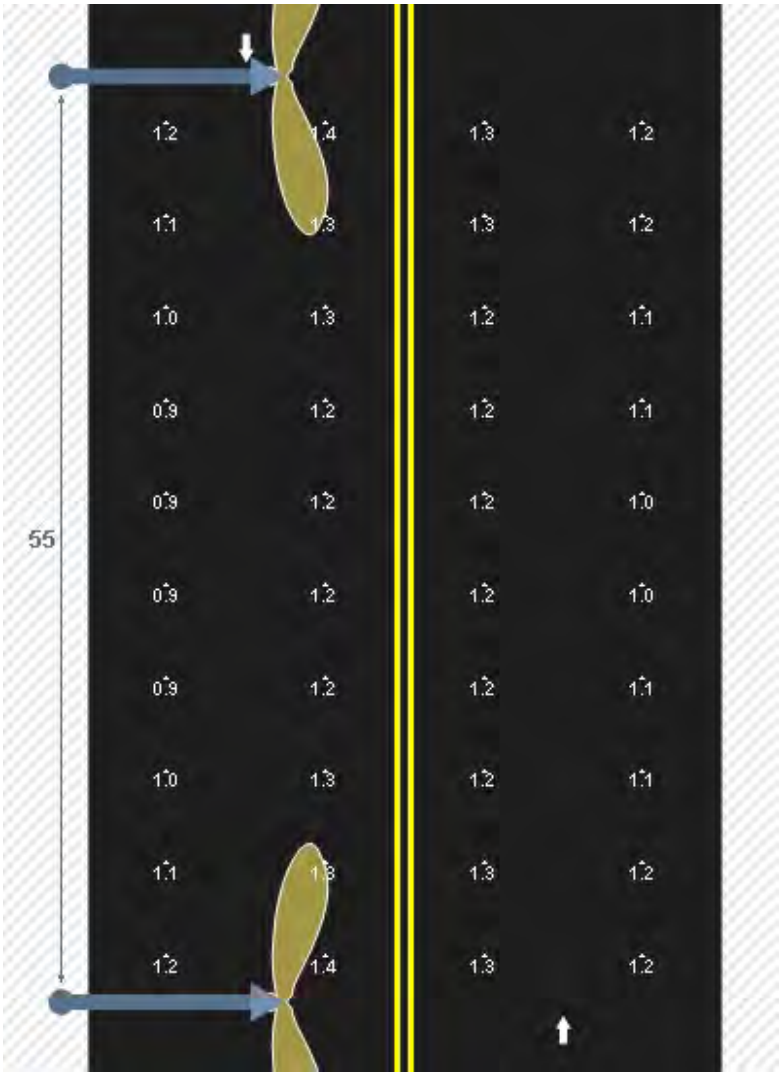

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.1	cd/m²
Max:	1.4	1.2	cd/m²
Min	0.9	1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.8	0.7	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.3	fc
Min	0.9	1	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

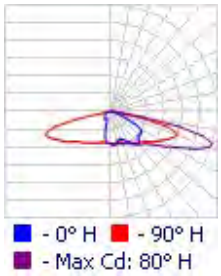
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

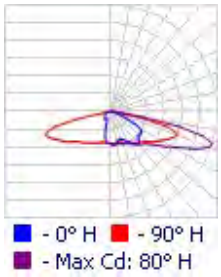
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	101.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	101.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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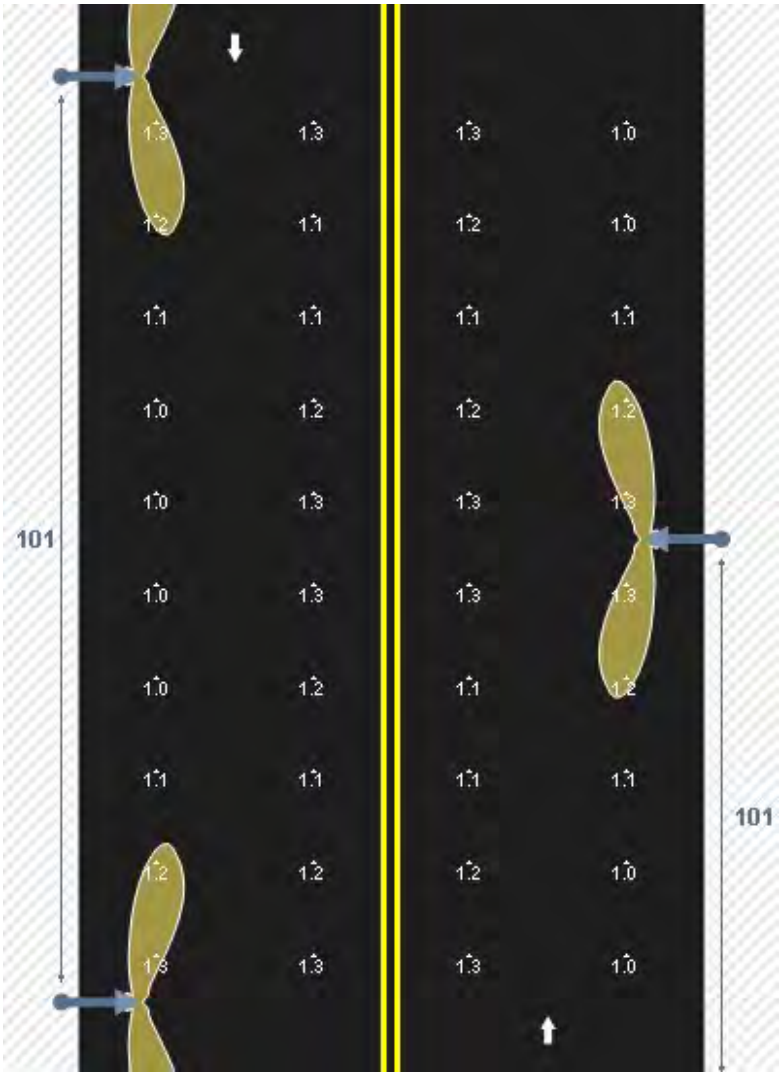

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

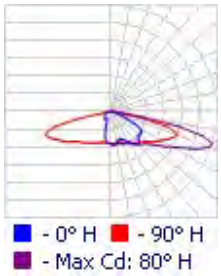
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

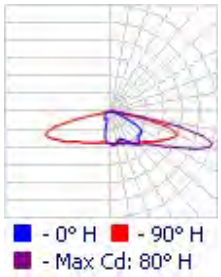
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	101.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	101.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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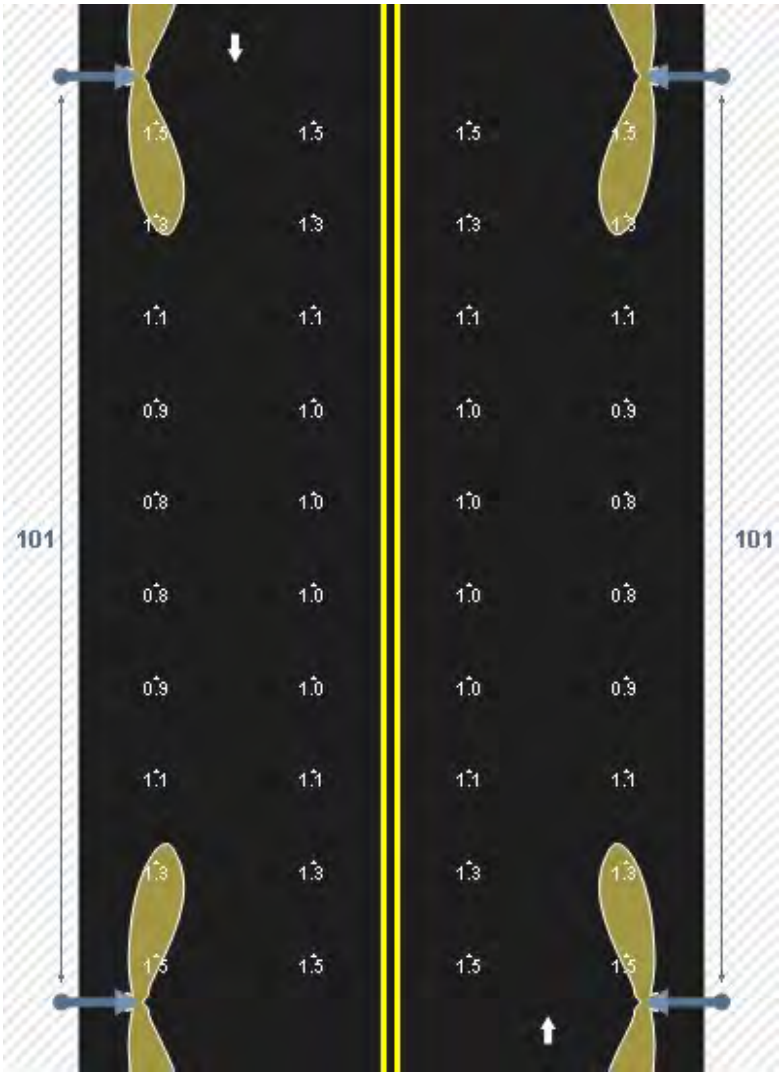

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.5	1.5	fc
Min	0.8	0.8	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.9	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

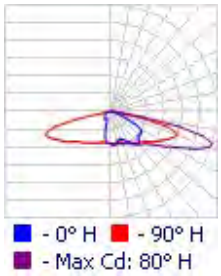
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	42.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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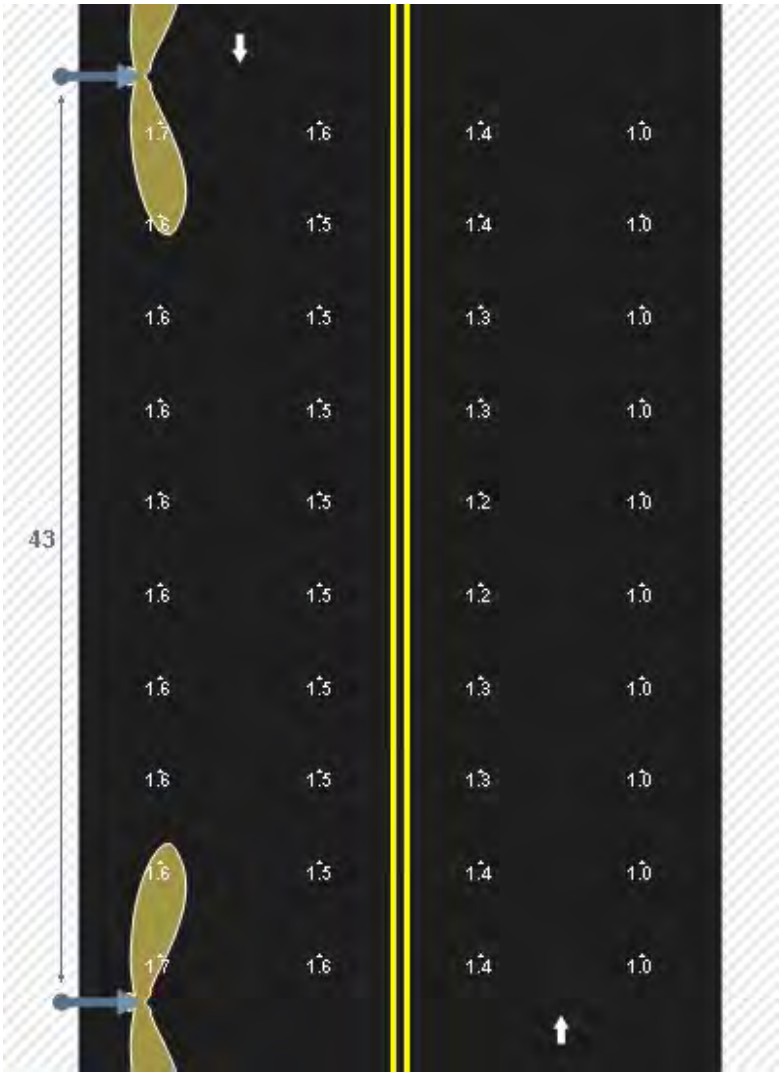

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	0.9	cd/m²
Max:	1.7	1.1	cd/m²
Min	1.4	0.7	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.7	
Lv Ratio:	0.1	0.2	
STV:	0.8	2.2	

Illuminance	Left	Right	
Average:	1.6	1.2	fc
Max:	1.7	1.4	fc
Min	1.5	1	fc
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

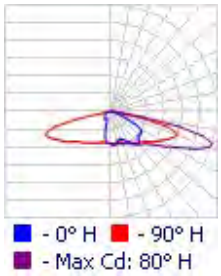
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

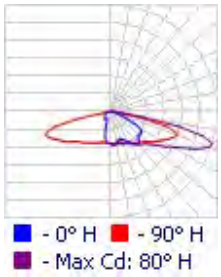
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	102.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	102.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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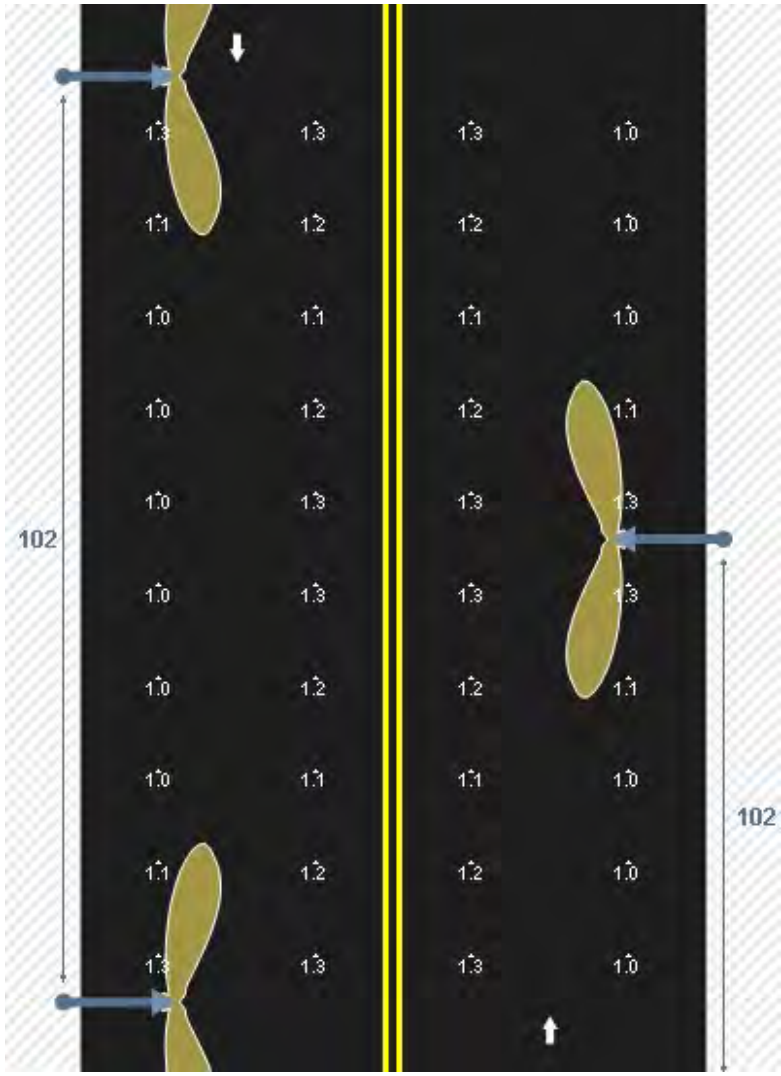

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

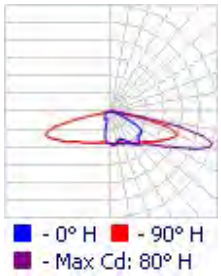
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

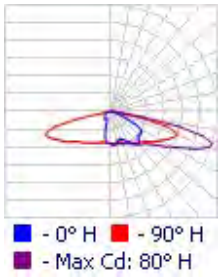
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	102.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	102.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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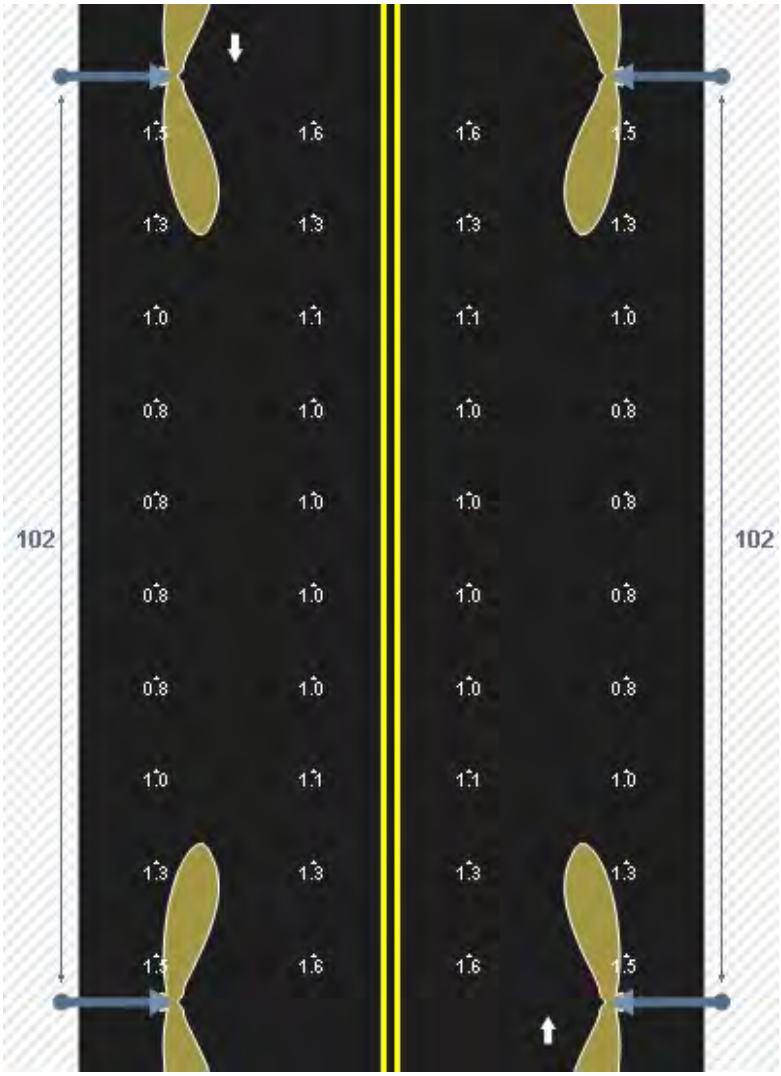

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.5	1.5	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, April 27, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

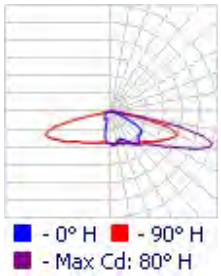
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

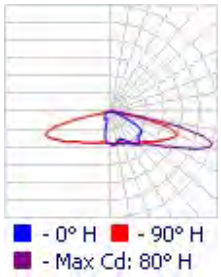
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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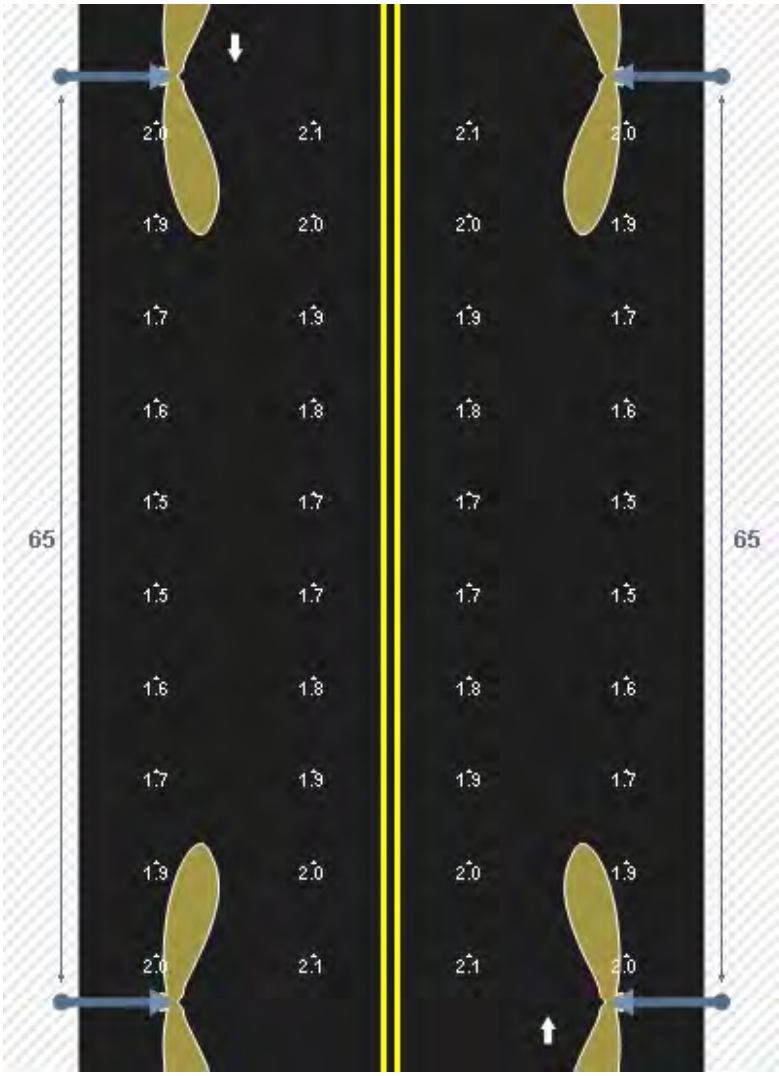
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	1.6	1.6	cd/m²	Average:	1.8	1.8	fc	Average:	--	--	fc
Max:	1.9	1.9	cd/m²	Max:	2.1	2.1	fc	Min	--	--	fc
Min	1.4	1.4	cd/m²	Min	1.5	1.5	fc	Ave/Min:	--	--	
Ave/Min:	1.2	1.2		Ave/Min:	1.2	1.2		Ev Min:	--	--	fc
Max/Min:	1.3	1.3		Max/Min:	1.5	1.5		**Bikelane**			
Lv Ratio:	0.2	0.2						Average:	--	--	fc
STV:	0.8	0.8						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

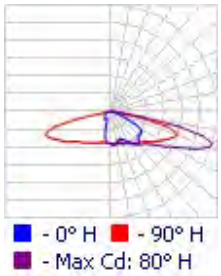
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (23 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	45.07 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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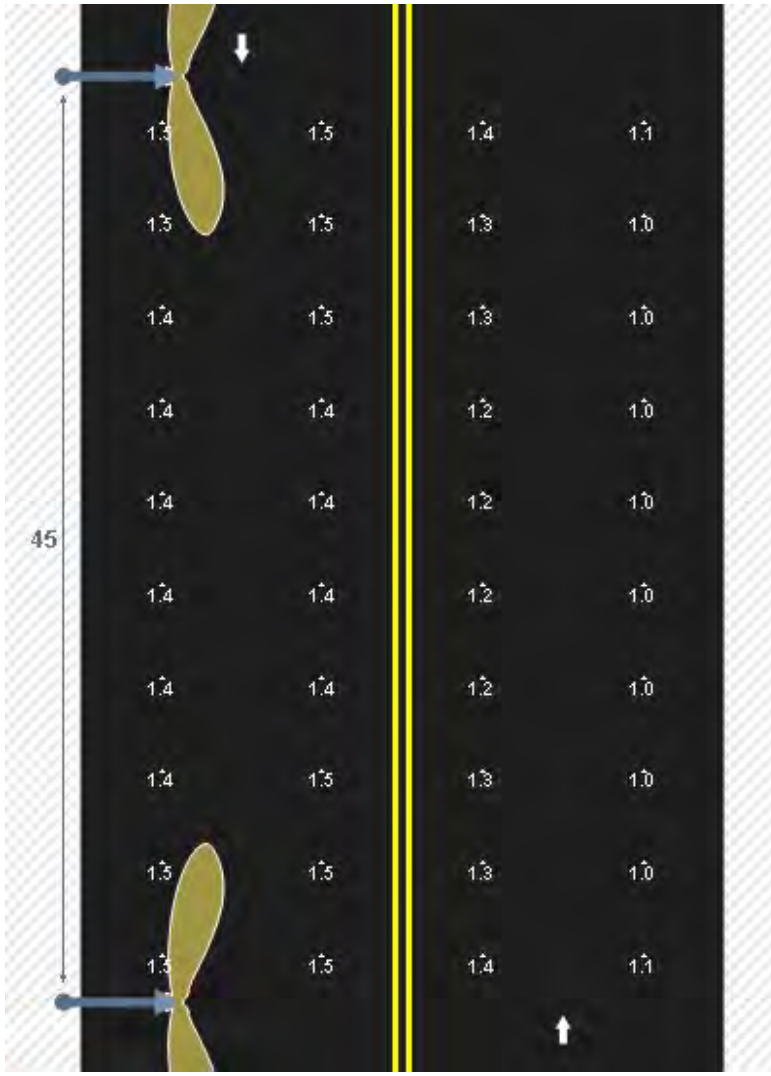
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.5	0.9	cd/m²
Max:	1.5	1.2	cd/m²
Min	1.4	0.7	cd/m²
Ave/Min:	1	1.3	
Max/Min:	1.1	1.7	
Lv Ratio:	0.1	0.2	
STV:	0.7	2	

Illuminance	Left	Right	
Average:	1.5	1.2	fc
Max:	1.5	1.4	fc
Min	1.4	1	fc
Ave/Min:	1	1.2	
Max/Min:	1.1	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

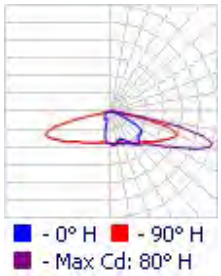
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

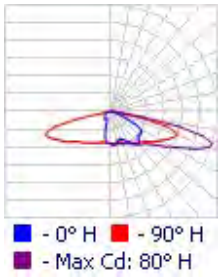
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	103.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	103.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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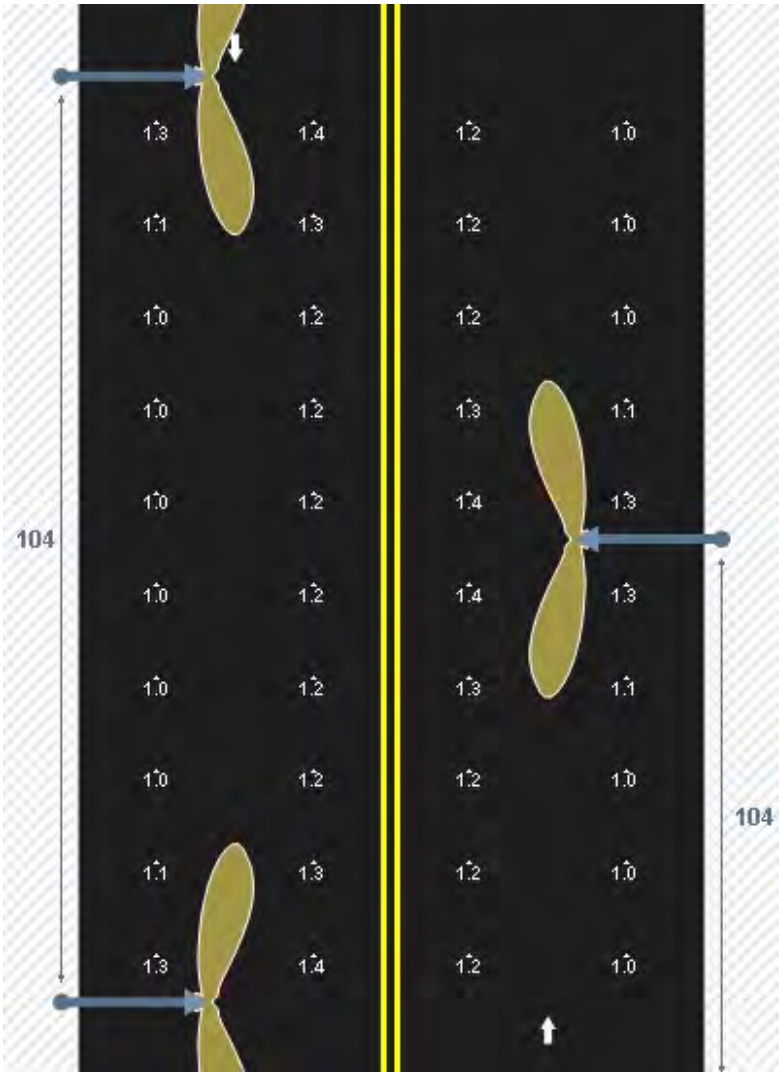

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

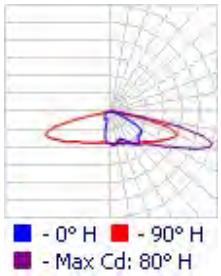
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

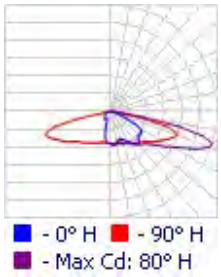
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	103.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	103.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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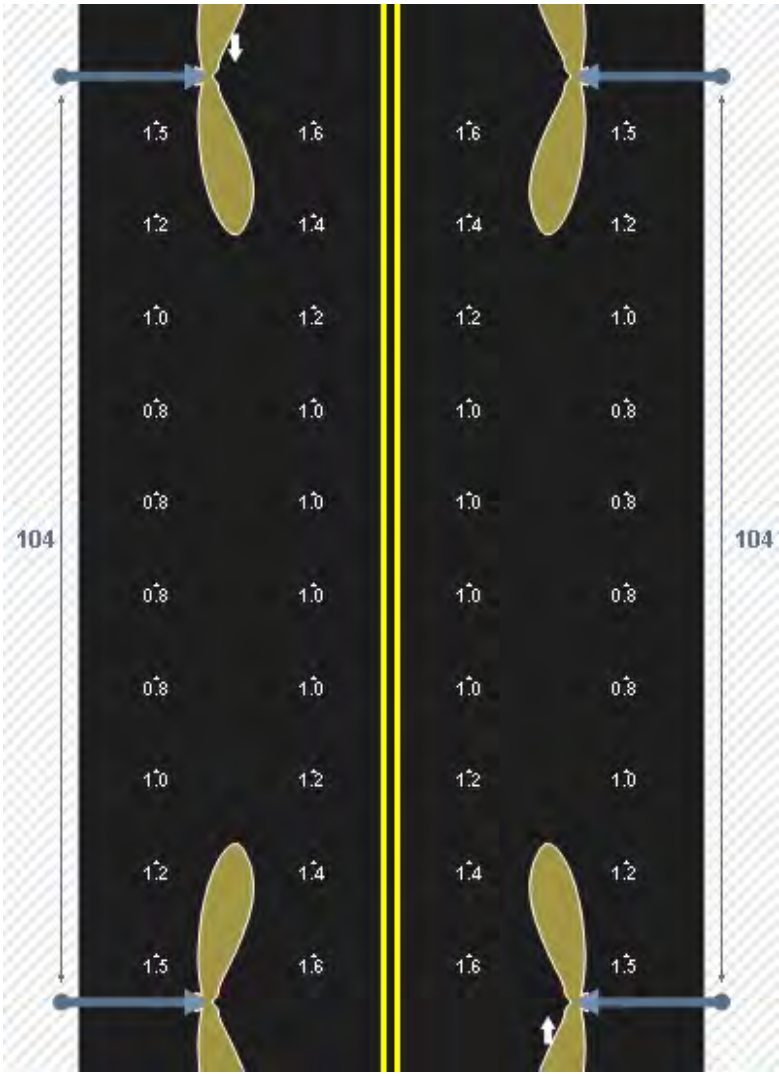

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

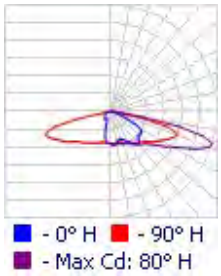
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R2 3K

Cycle Spacing:	47.18 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4006
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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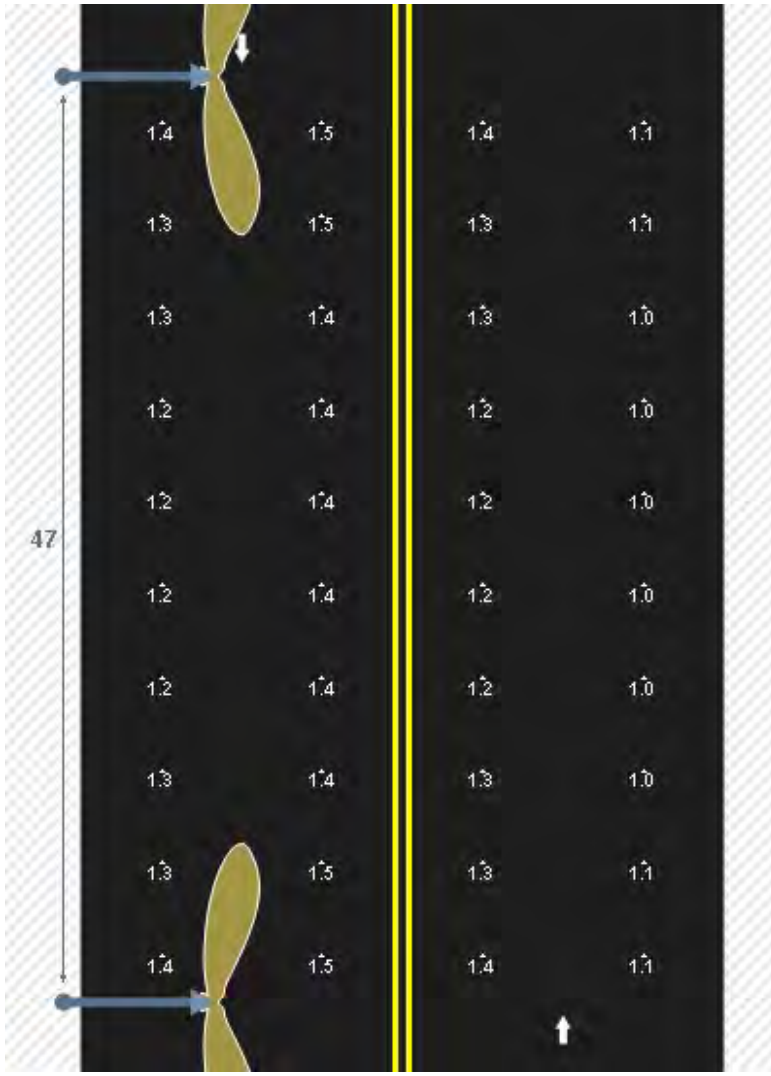

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.4	0.9	cd/m²
Max:	1.5	1.2	cd/m²
Min	1.3	0.7	cd/m²
Ave/Min:	1.1	1.3	
Max/Min:	1.2	1.7	
Lv Ratio:	0.1	0.2	
STV:	0.6	1.7	

Illuminance	Left	Right	
Average:	1.4	1.2	fc
Max:	1.5	1.4	fc
Min	1.2	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

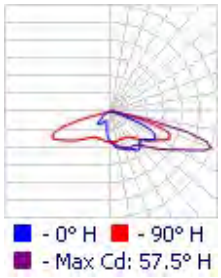
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

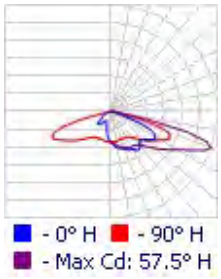
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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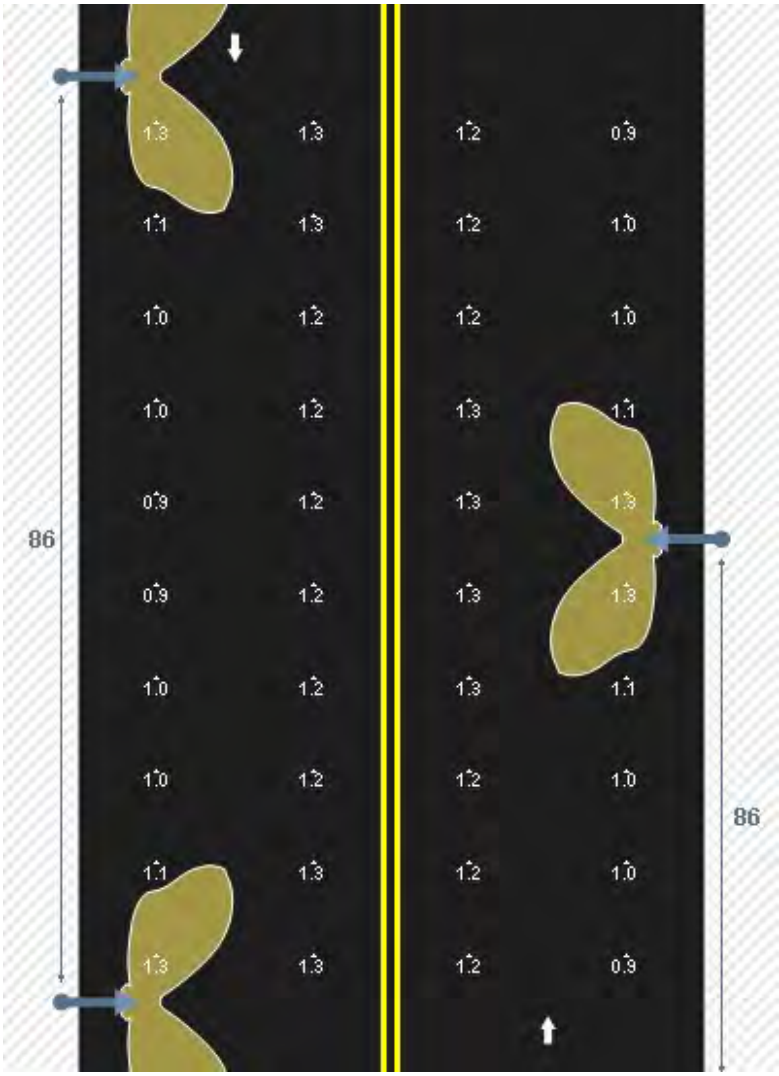

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

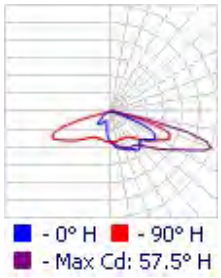
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

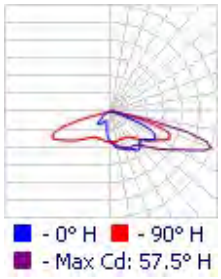
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	86.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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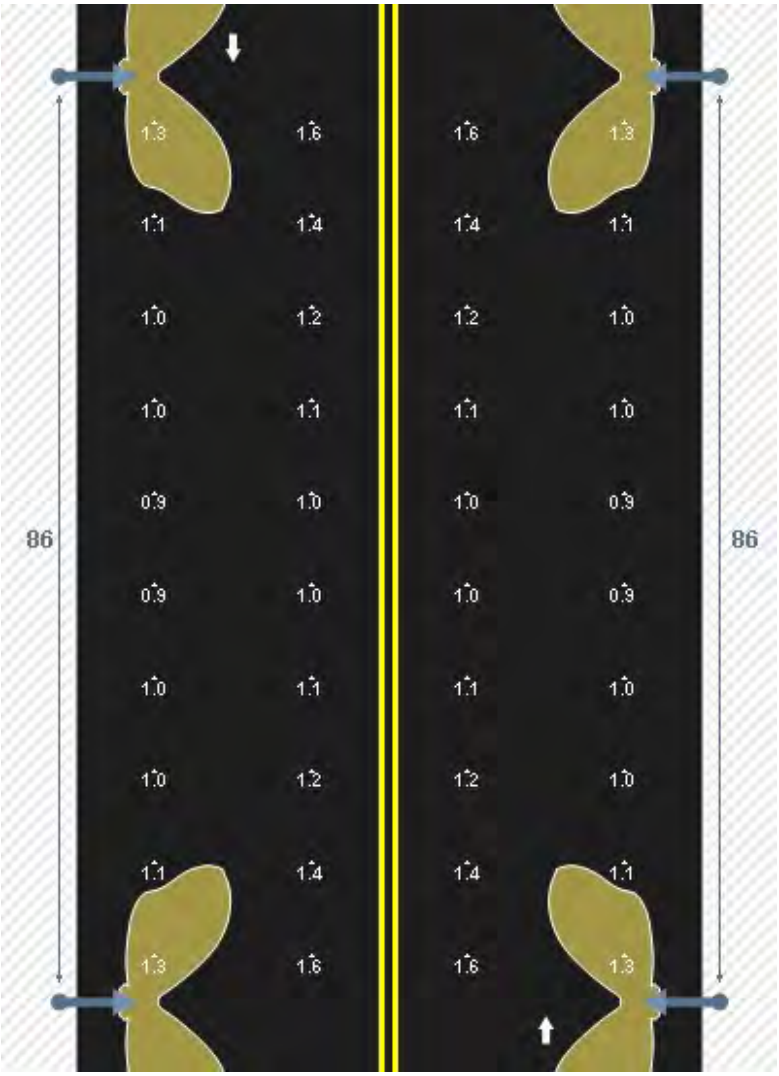

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

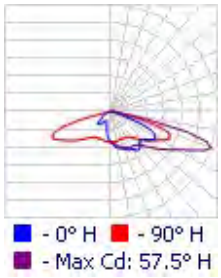
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	40.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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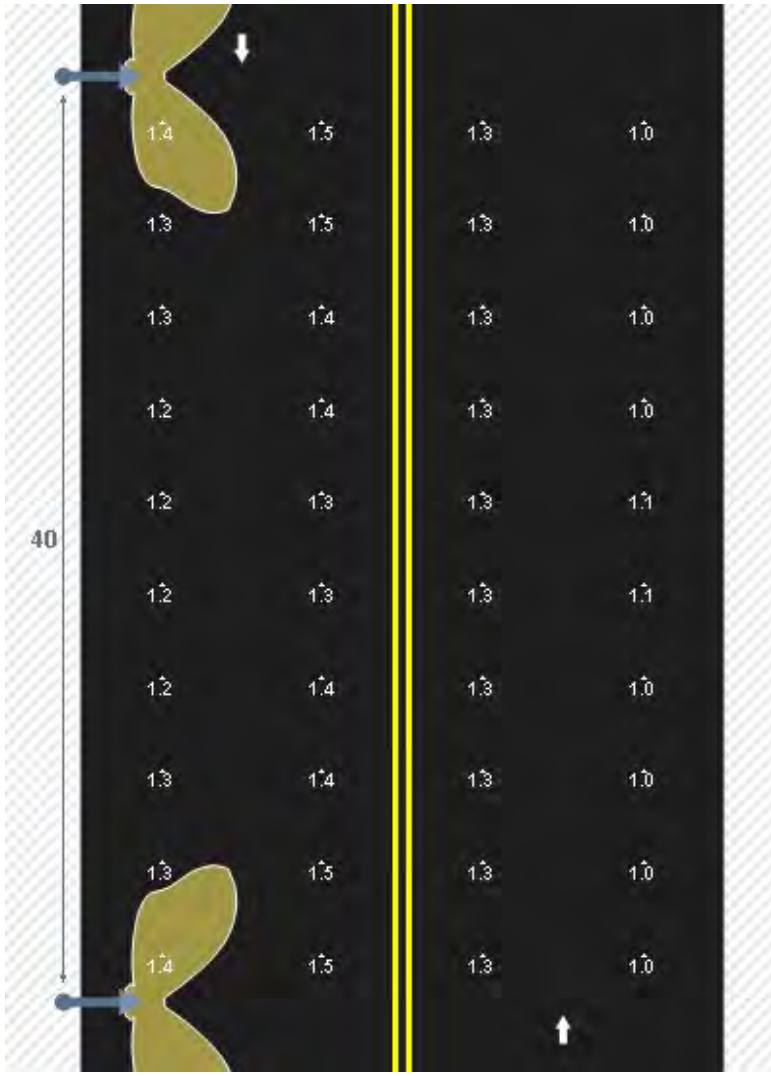

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	0.8	cd/m²
Max:	1.3	0.9	cd/m²
Min	1.1	0.7	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.1	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.8	

Illuminance	Left	Right	
Average:	1.3	1.2	fc
Max:	1.5	1.3	fc
Min	1.2	1	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

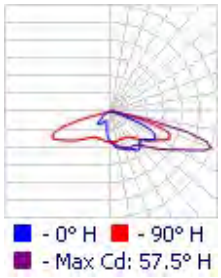
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (23 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

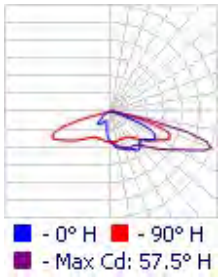
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	87.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	87.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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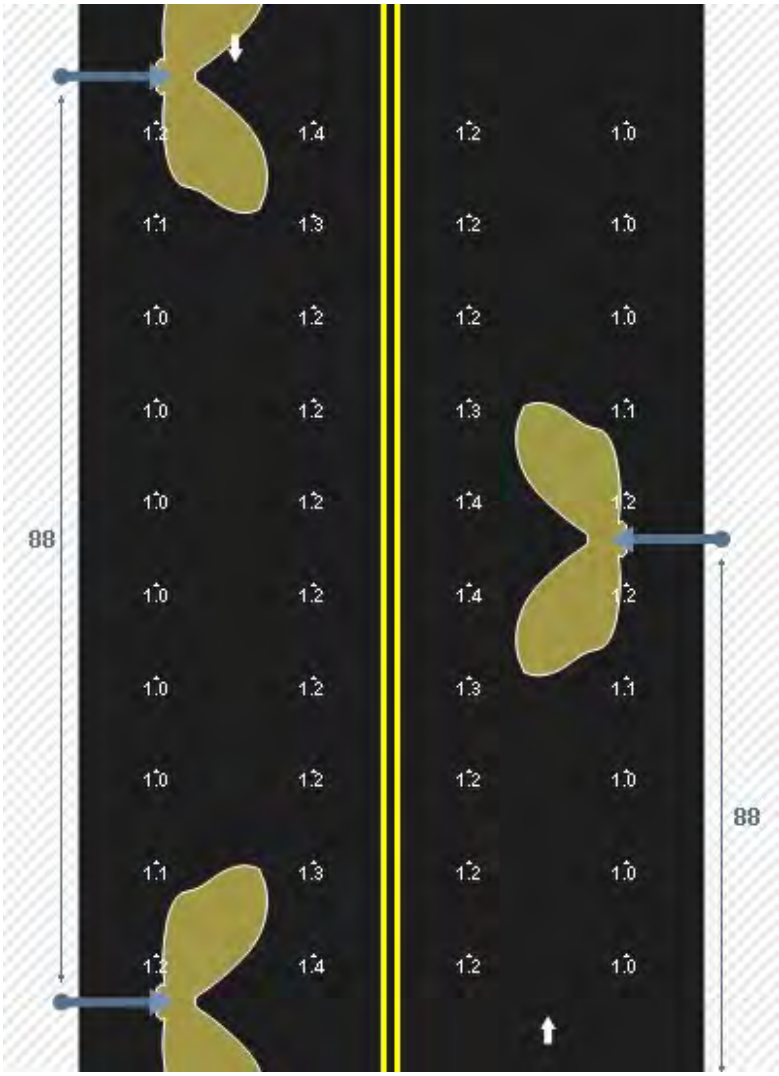

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

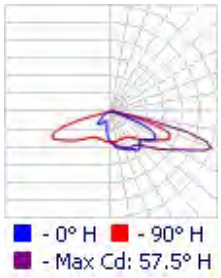
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

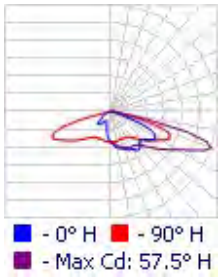
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	87.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	87.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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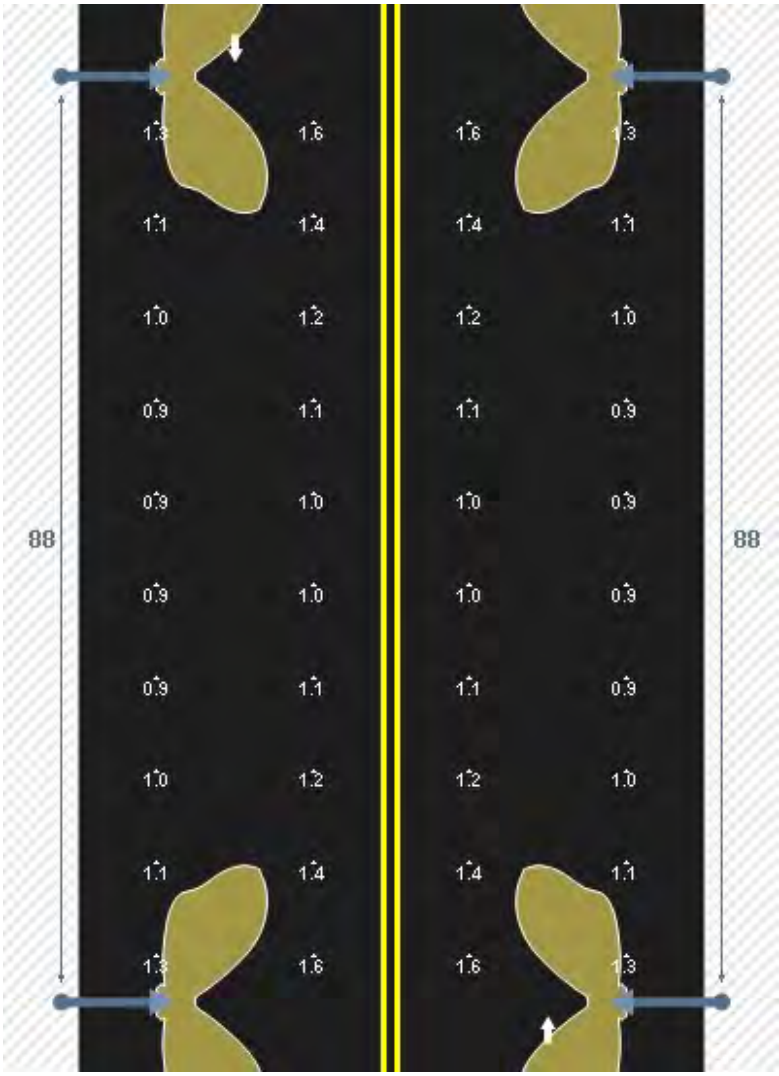

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

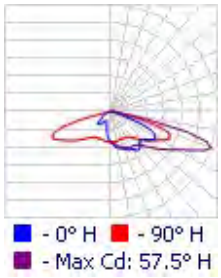
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	41.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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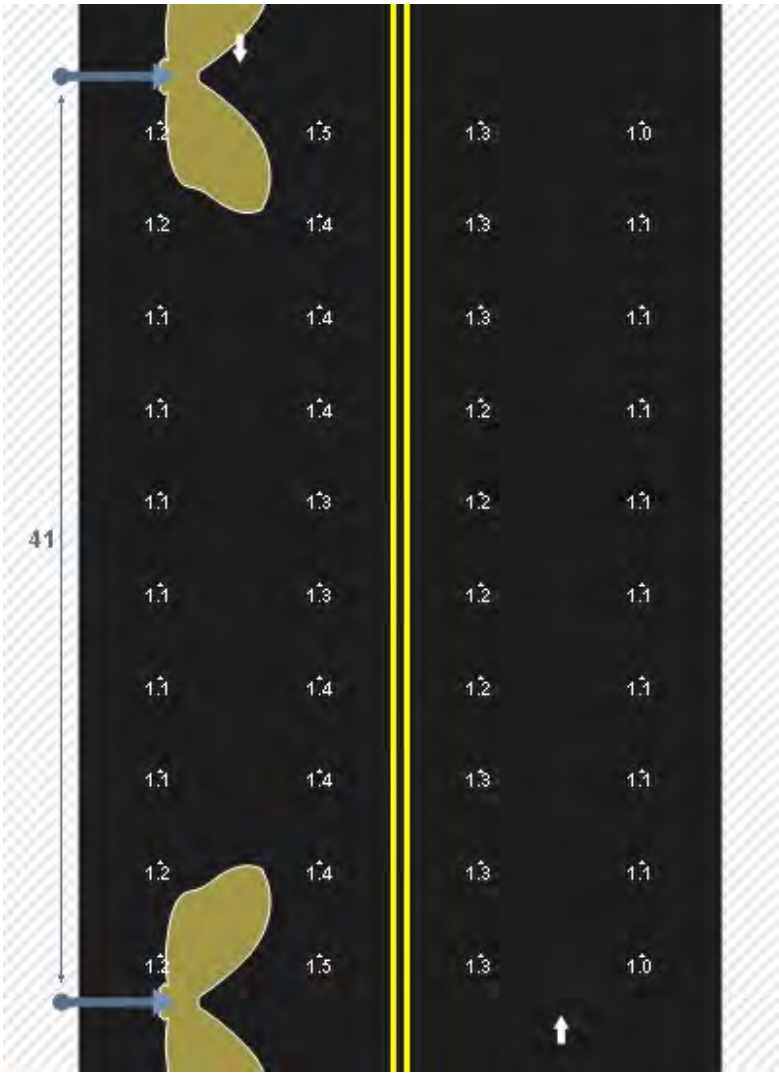

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	0.8	cd/m²
Max:	1.2	1	cd/m²
Min	1.1	0.7	cd/m²
Ave/Min:	1	1.2	
Max/Min:	1.1	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.6	

Illuminance	Left	Right	
Average:	1.3	1.2	fc
Max:	1.5	1.3	fc
Min	1.1	1.1	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

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Your Email

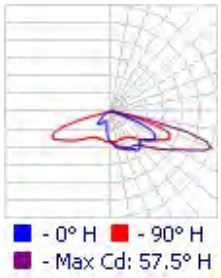
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (23 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

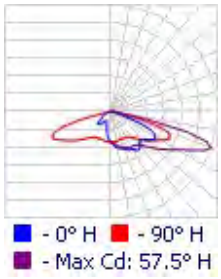
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	88.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	88.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	True	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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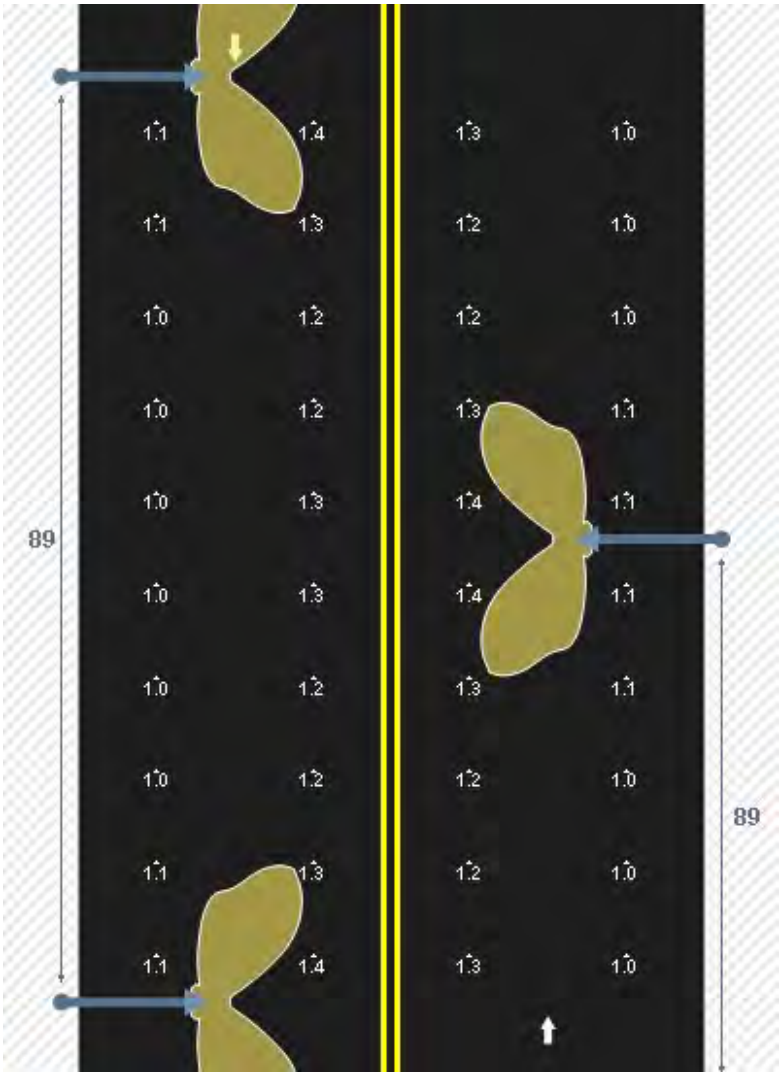

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

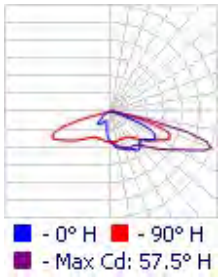
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

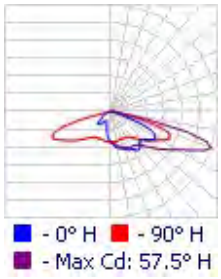
Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	88.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	88.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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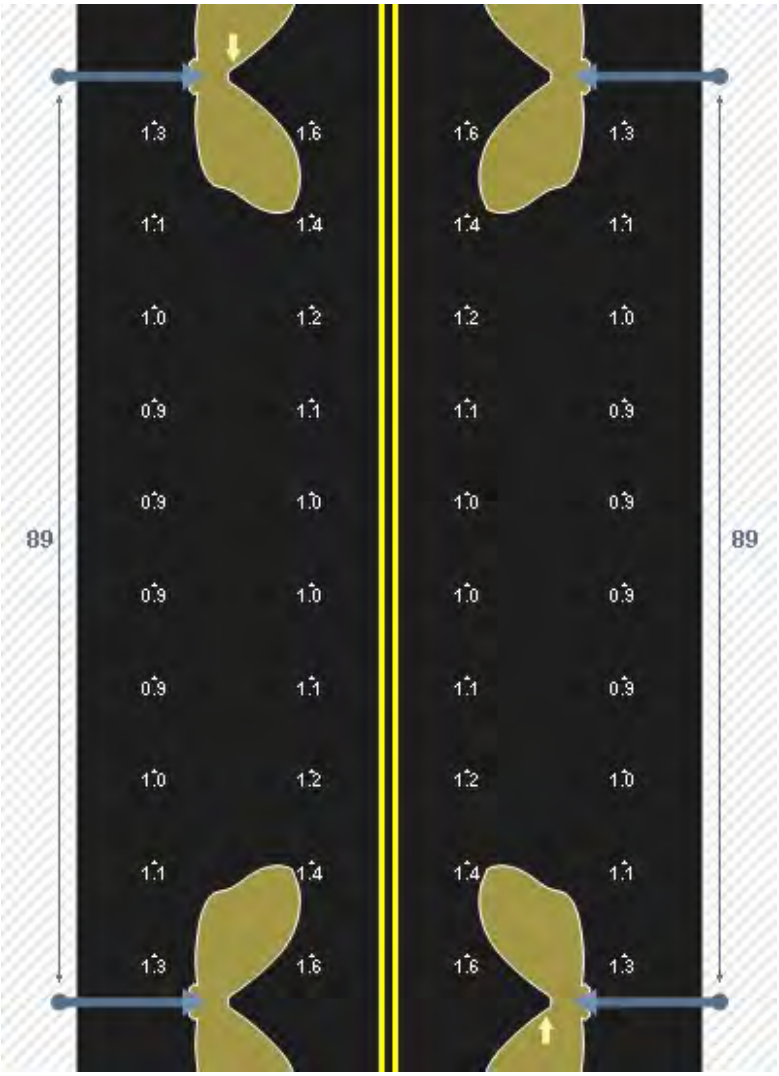

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

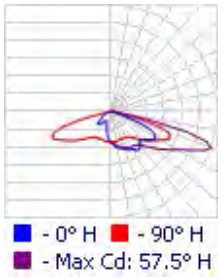
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 10BLEDE10 XXXXX R3 3K

Cycle Spacing:	42.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	4069
Staggered:	False	Wattage:	37
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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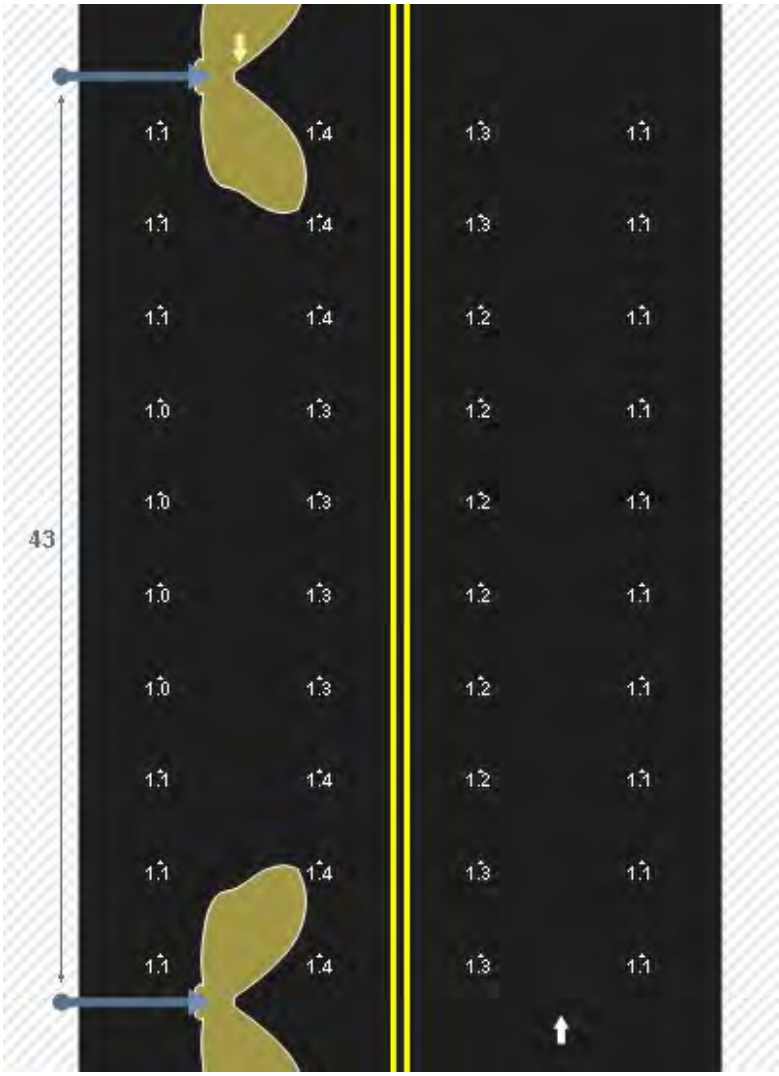

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	0.8	cd/m²
Max:	1.2	1	cd/m²
Min	1	0.7	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.5	1.3	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.3	fc
Min	1	1.1	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.5	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

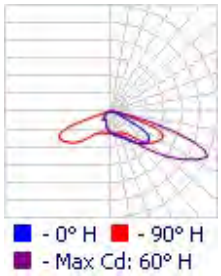
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

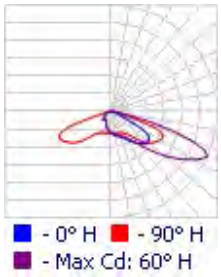
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	176.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	176.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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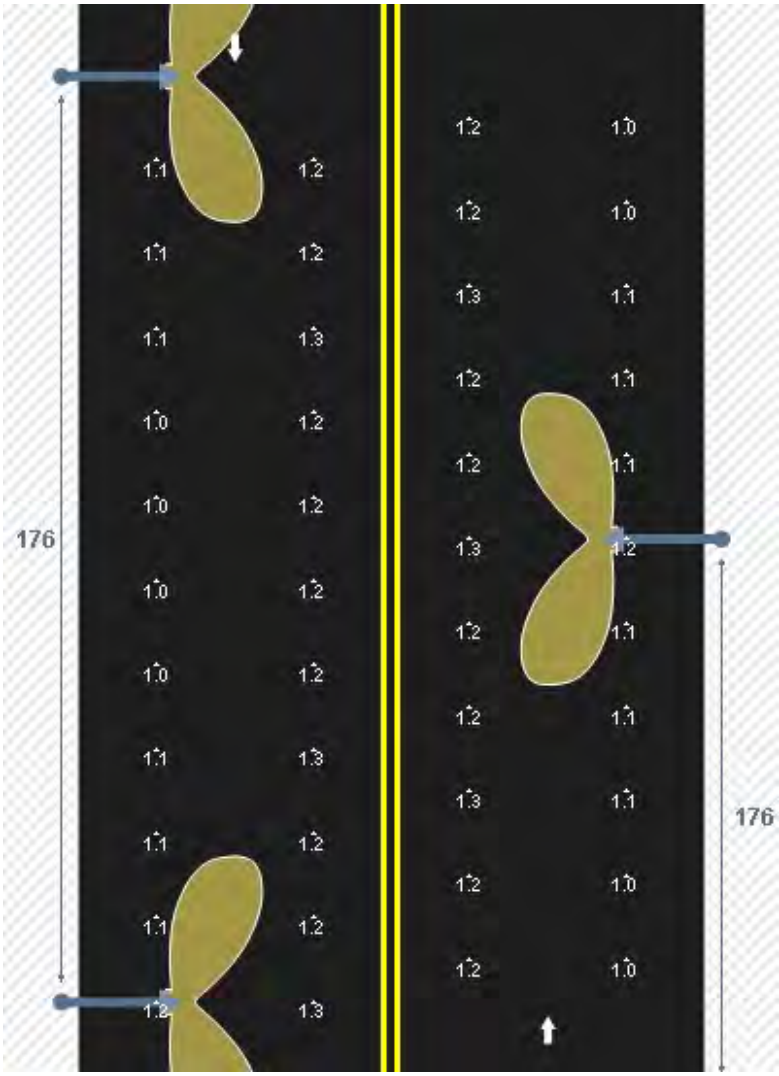

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Project Description

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Your Email

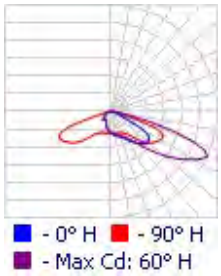
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

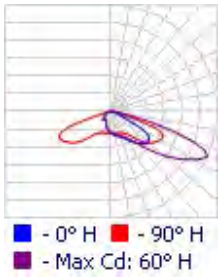
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	176.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	176.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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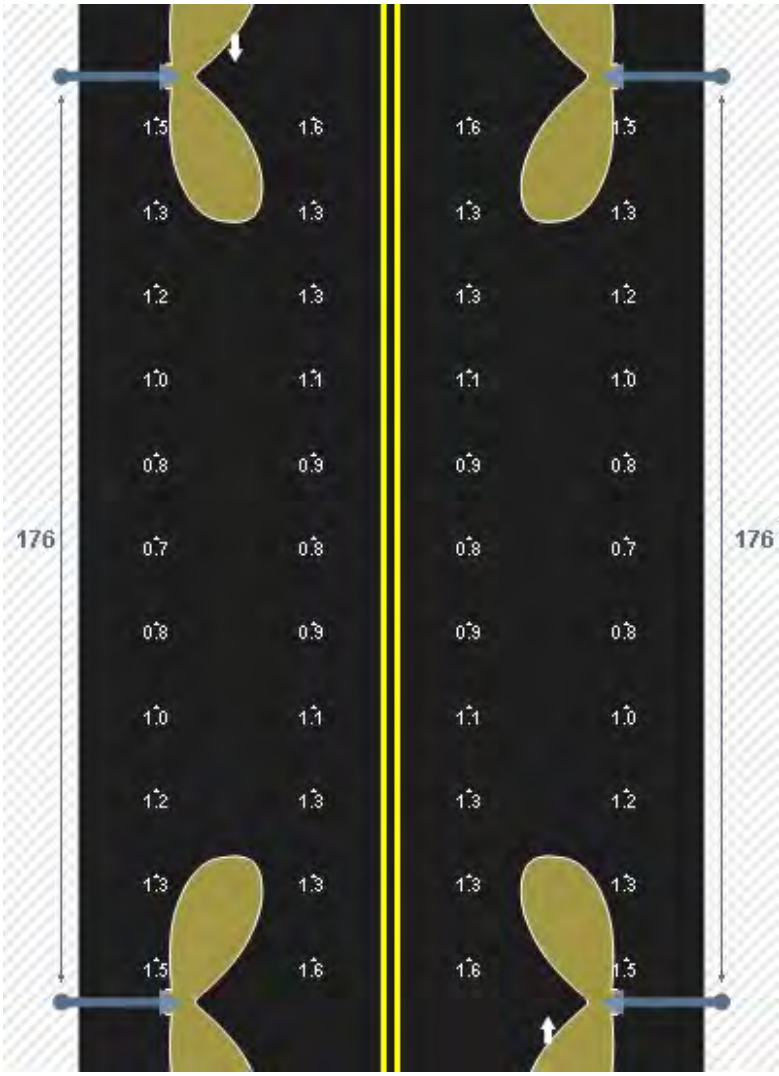

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.4	1.4	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.2	2.2	
Lv Ratio:	0.2	0.2	
STV:	3	3	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.7	0.7	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.2	2.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

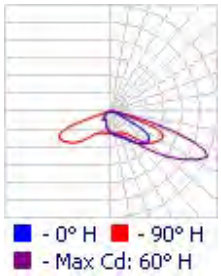
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	81.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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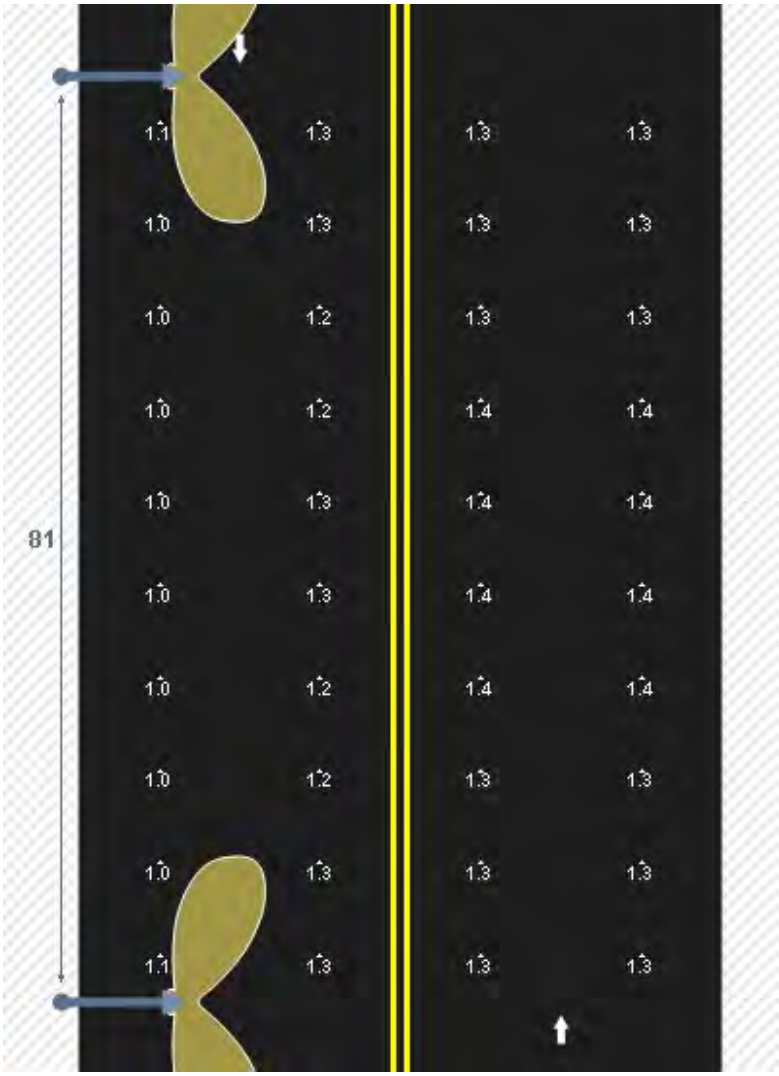

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1	cd/m²
Max:	1.2	1.1	cd/m²
Min	1	0.9	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.3	

Illuminance	Left	Right	
Average:	1.2	1.3	fc
Max:	1.3	1.4	fc
Min	1	1.3	fc
Ave/Min:	1.2	1	
Max/Min:	1.3	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

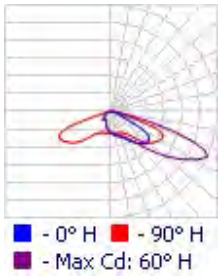
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

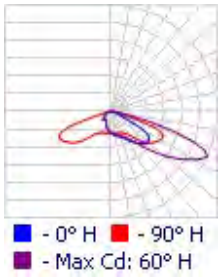
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	171.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	171.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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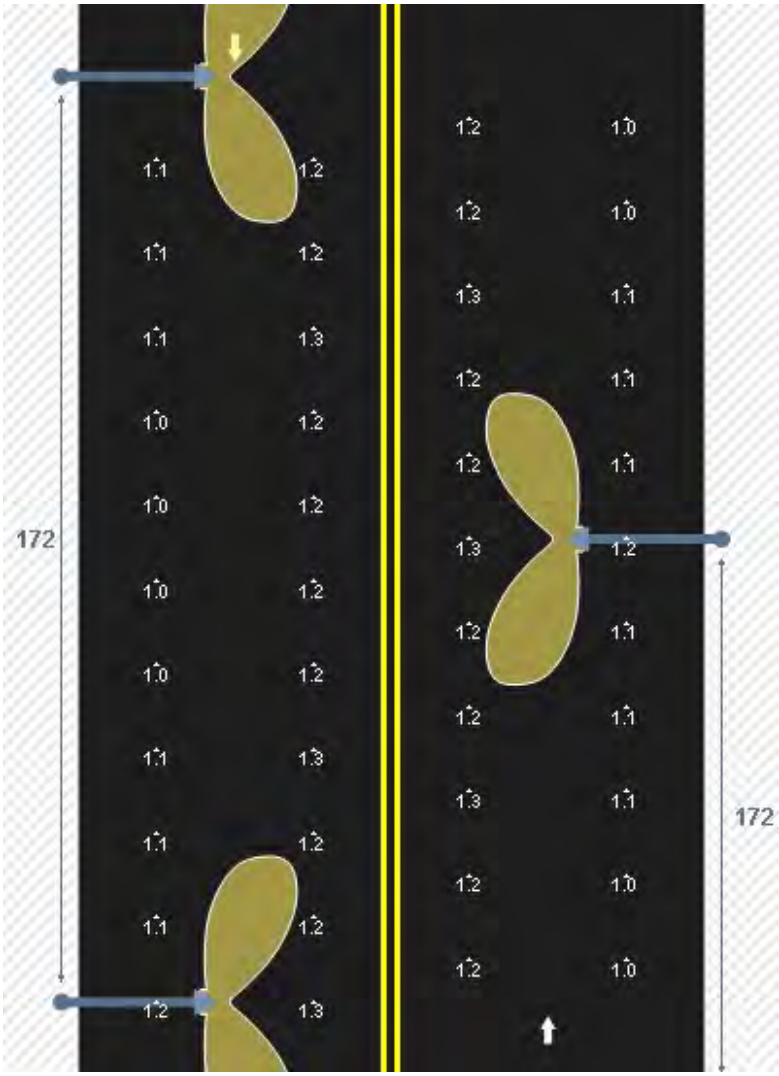

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

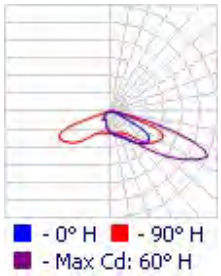
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

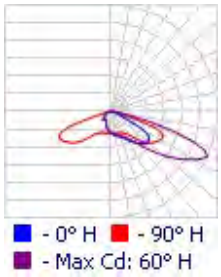
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	171.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	171.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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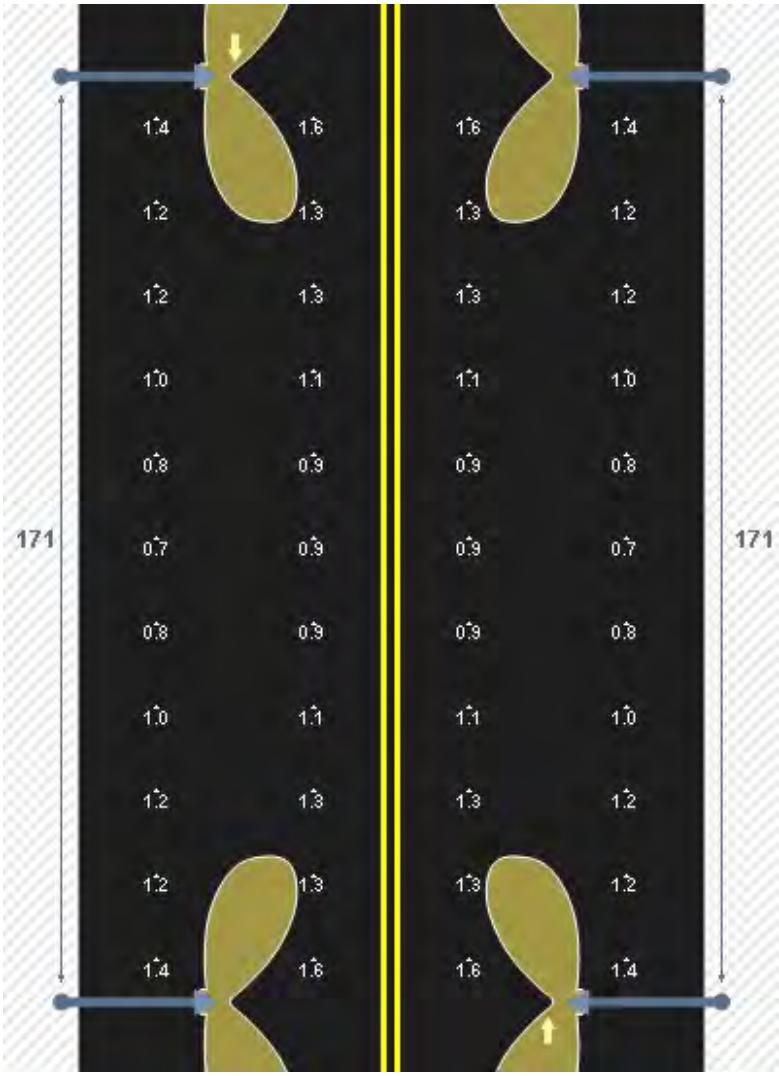

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.4	1.4	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	
Lv Ratio:	0.2	0.2	
STV:	2.7	2.7	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

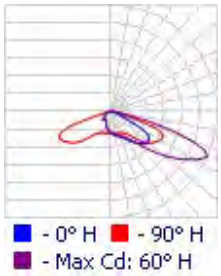
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	76.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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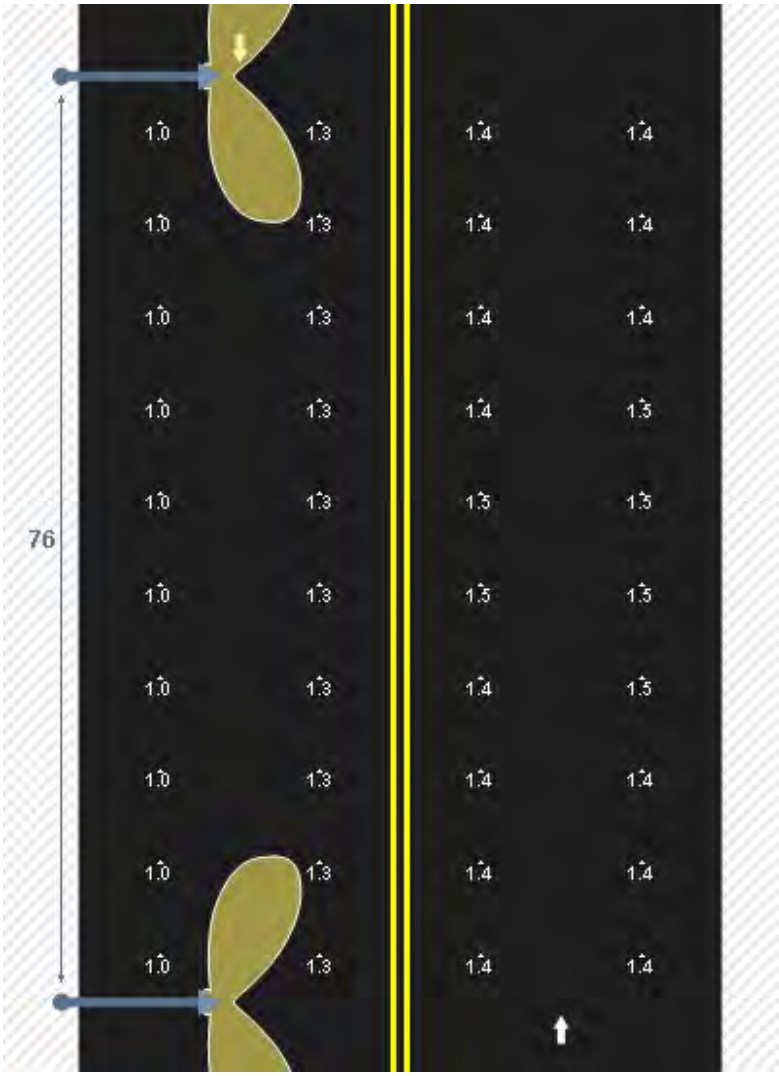

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.3	1.2	cd/m²
Min	0.9	1	cd/m²
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.1	

Illuminance	Left	Right	
Average:	1.2	1.4	fc
Max:	1.3	1.5	fc
Min	1	1.4	fc
Ave/Min:	1.2	1	
Max/Min:	1.4	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

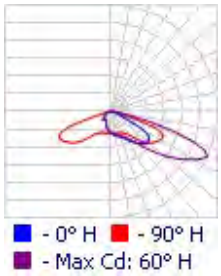
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

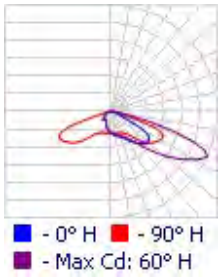
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	166.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	166.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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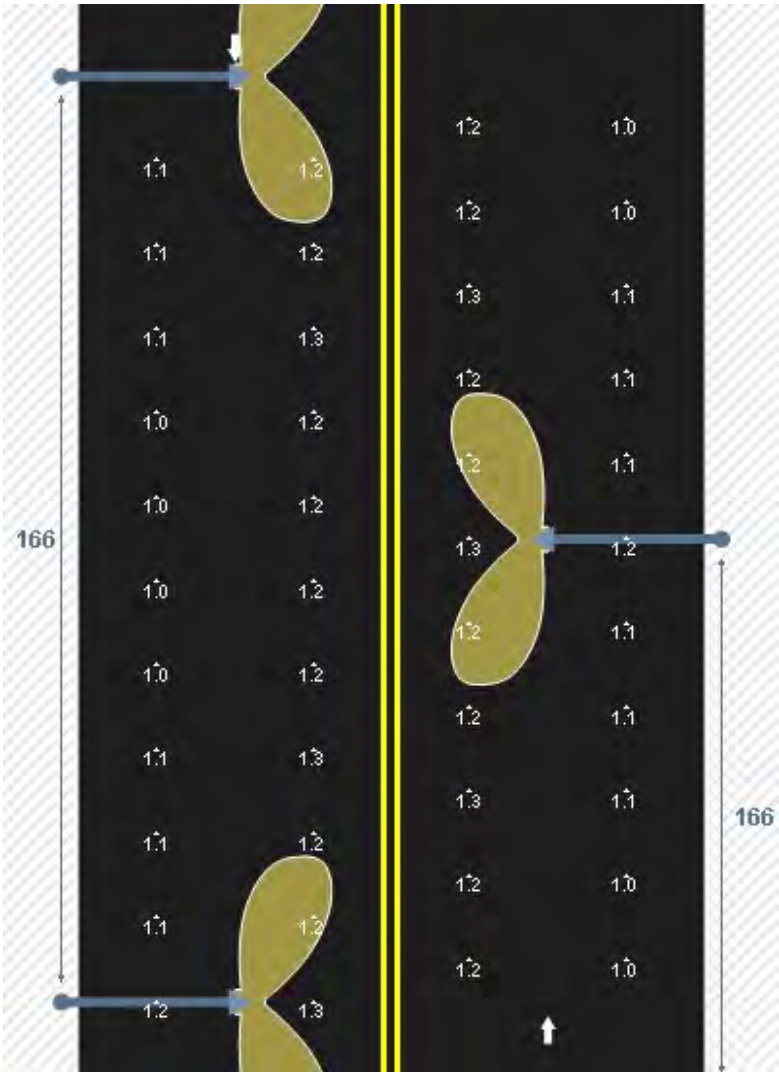

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

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Company Name
Your Phone
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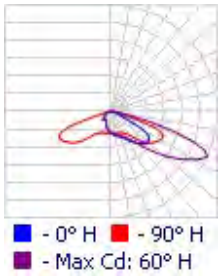
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

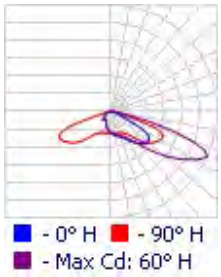
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	166.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	166.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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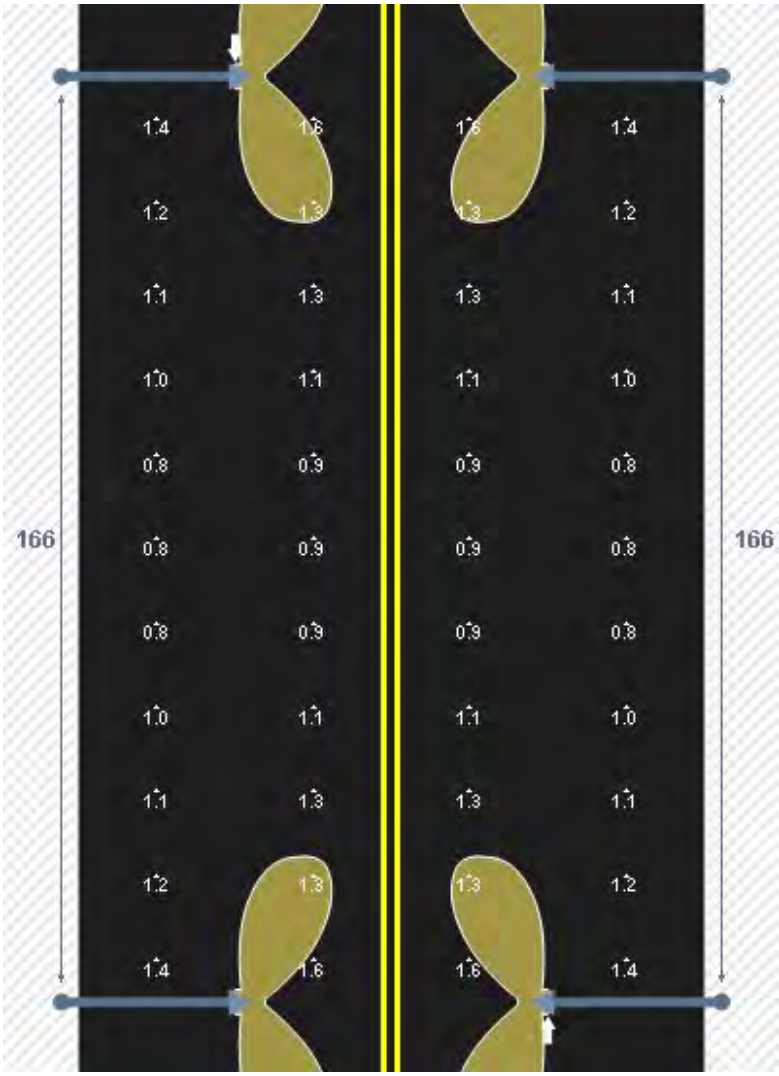

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.5	1.5	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	
Lv Ratio:	0.2	0.2	
STV:	2.6	2.6	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

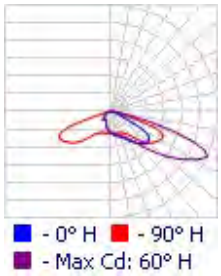
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	71.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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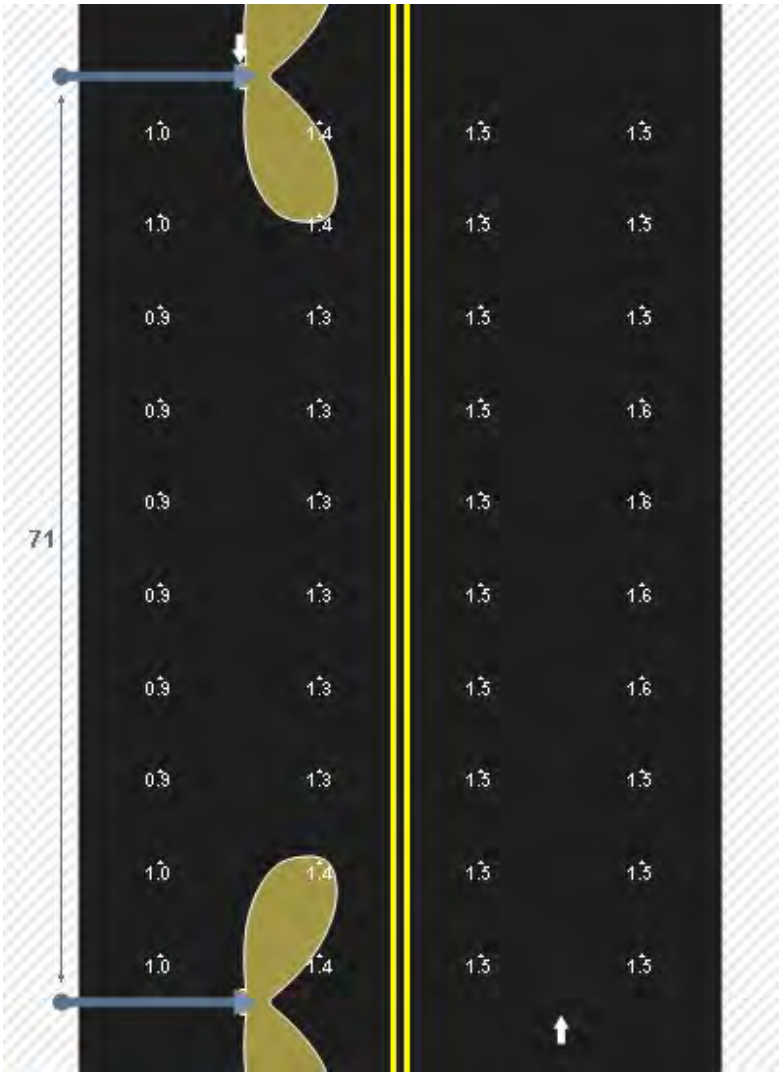

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.2	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.8	1.1	cd/m²
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.6	1	

Illuminance	Left	Right	
Average:	1.2	1.5	fc
Max:	1.4	1.6	fc
Min	0.9	1.5	fc
Ave/Min:	1.3	1	
Max/Min:	1.5	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Project Description

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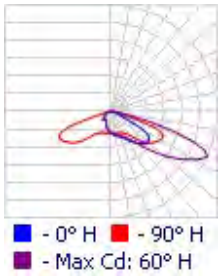
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

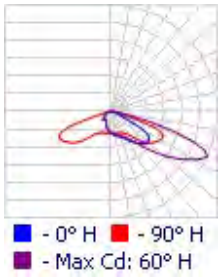
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	160.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	160.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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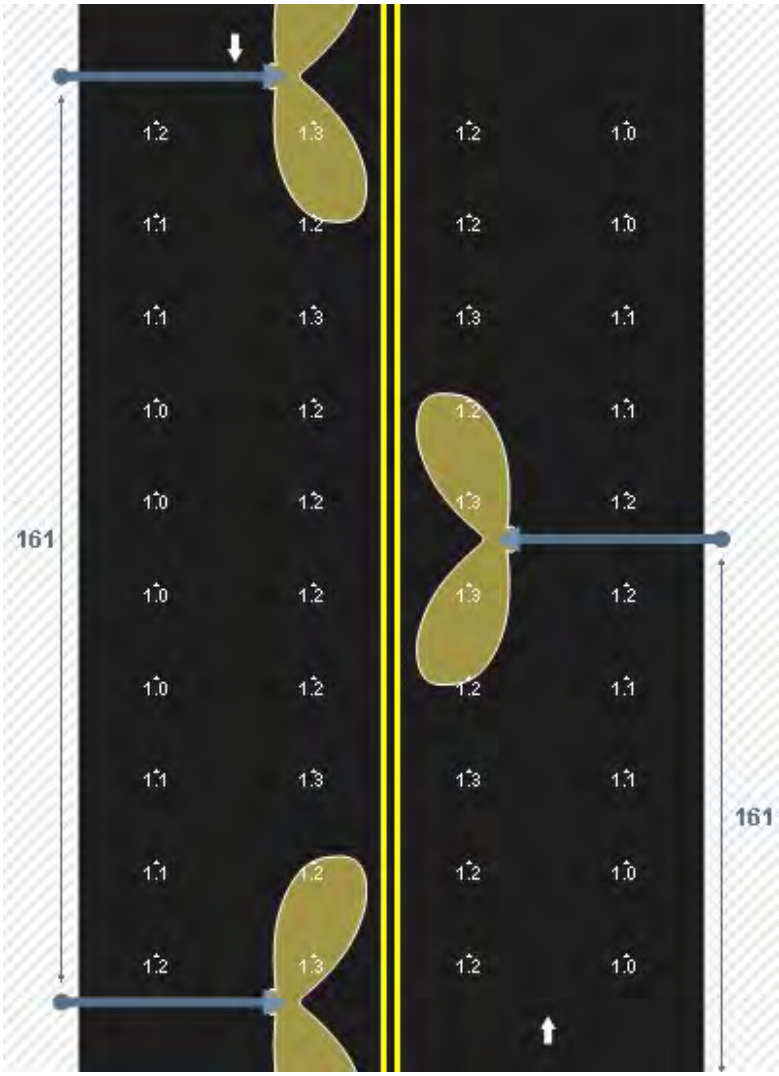

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

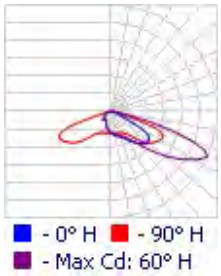
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

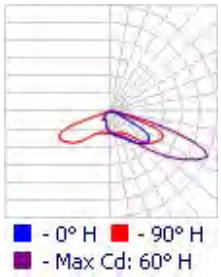
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	160.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	160.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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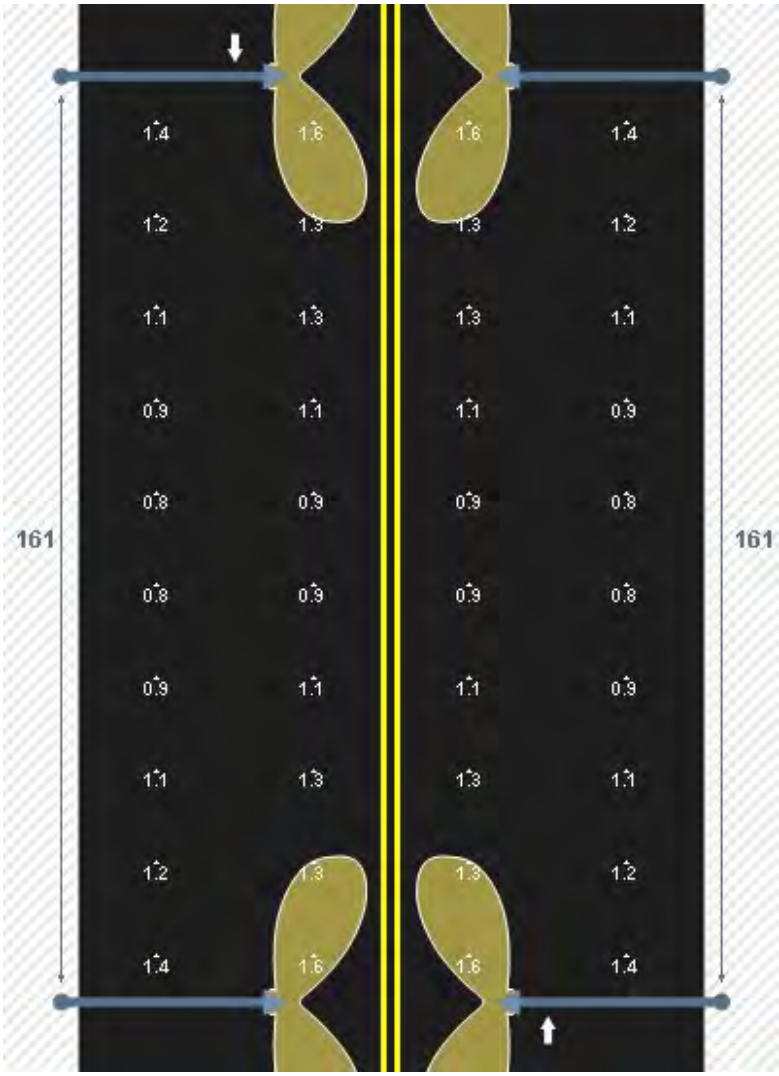

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.5	1.5	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	
Lv Ratio:	0.2	0.2	
STV:	2.4	2.4	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.5	1.5	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

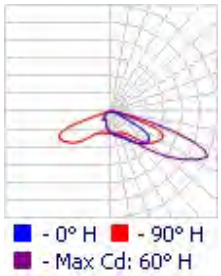
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	65.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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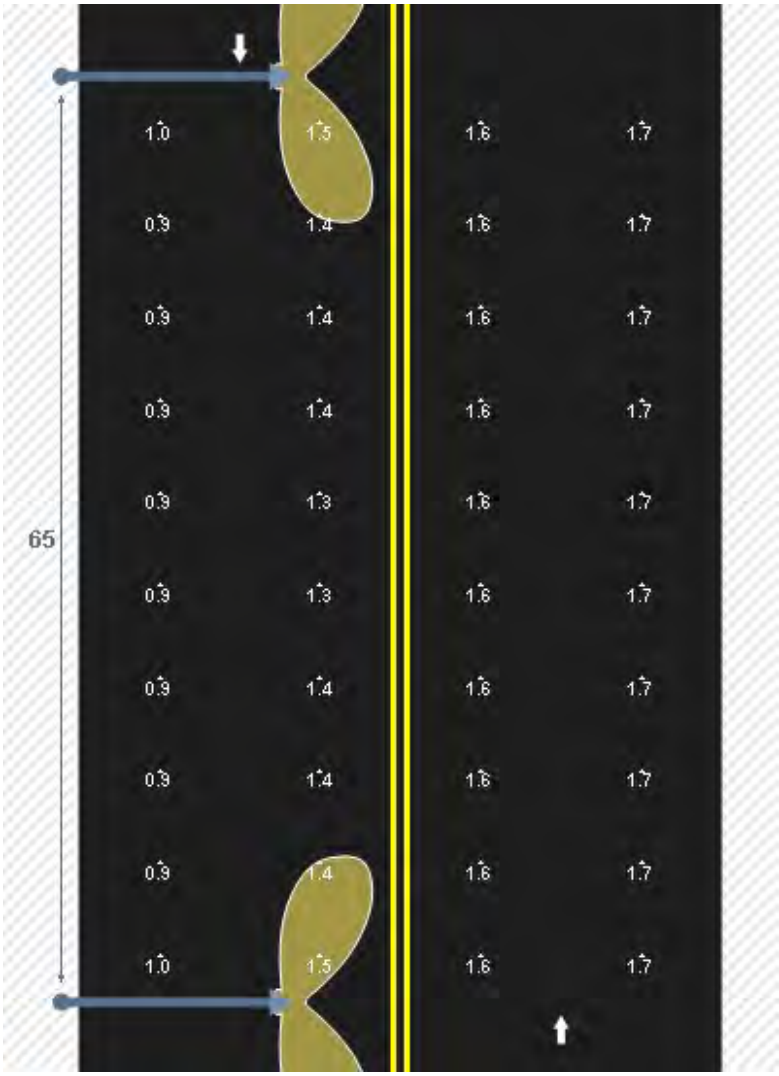

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.3	cd/m²
Max:	1.4	1.4	cd/m²
Min	0.8	1.2	cd/m²
Ave/Min:	1.4	1.1	
Max/Min:	1.8	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.8	

Illuminance	Left	Right	
Average:	1.2	1.7	fc
Max:	1.5	1.7	fc
Min	0.9	1.6	fc
Ave/Min:	1.3	1	
Max/Min:	1.7	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

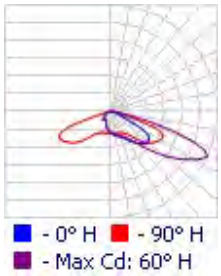
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

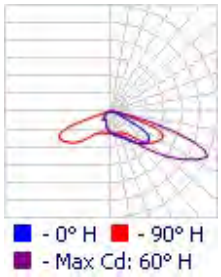
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	149.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	149.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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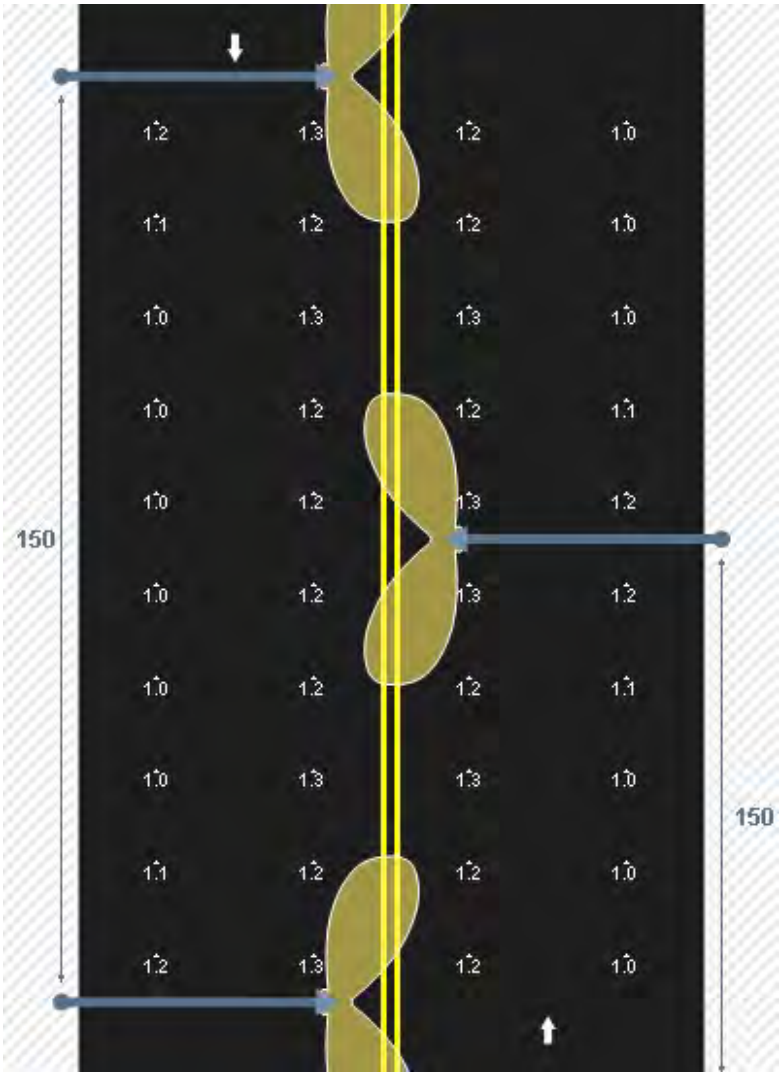

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	1.9	1.9	
Lv Ratio:	0.1	0.1	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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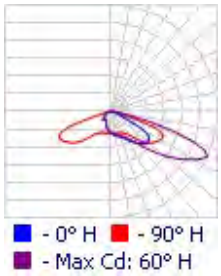
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

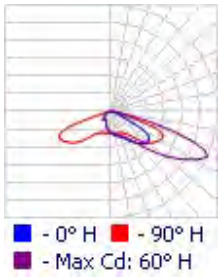
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	149.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	149.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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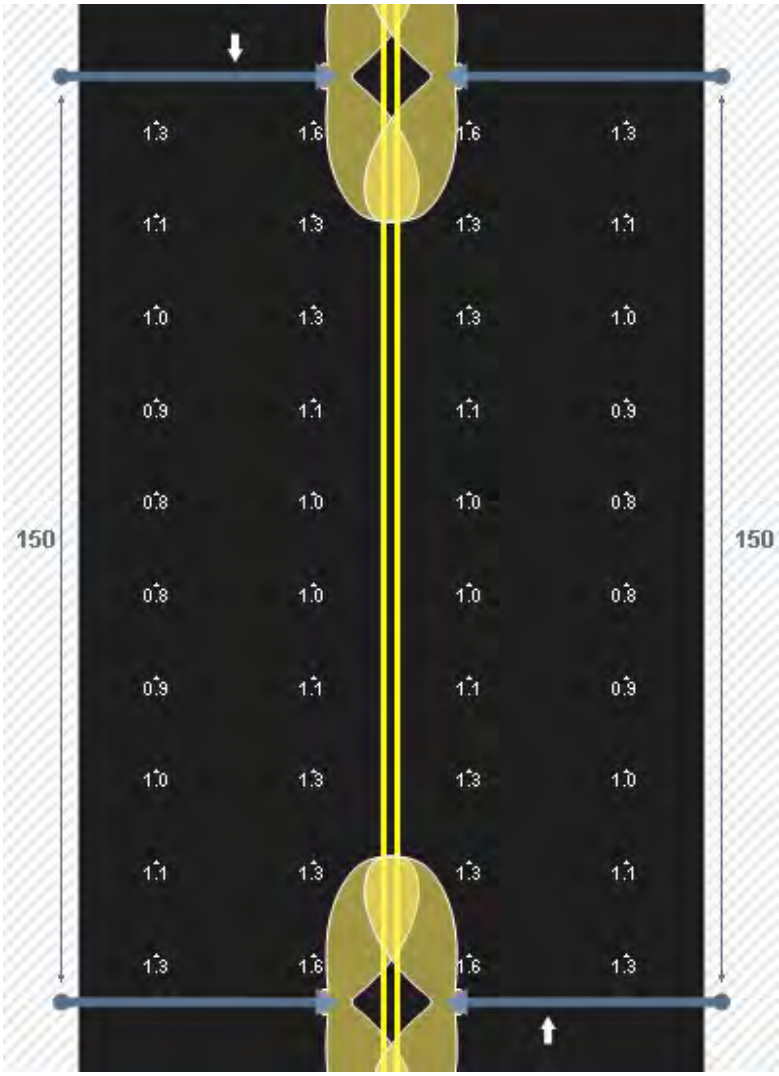

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.5	1.5	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	
Lv Ratio:	0.2	0.2	
STV:	2	2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.9	1.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

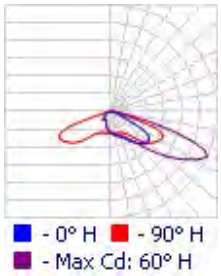
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	55.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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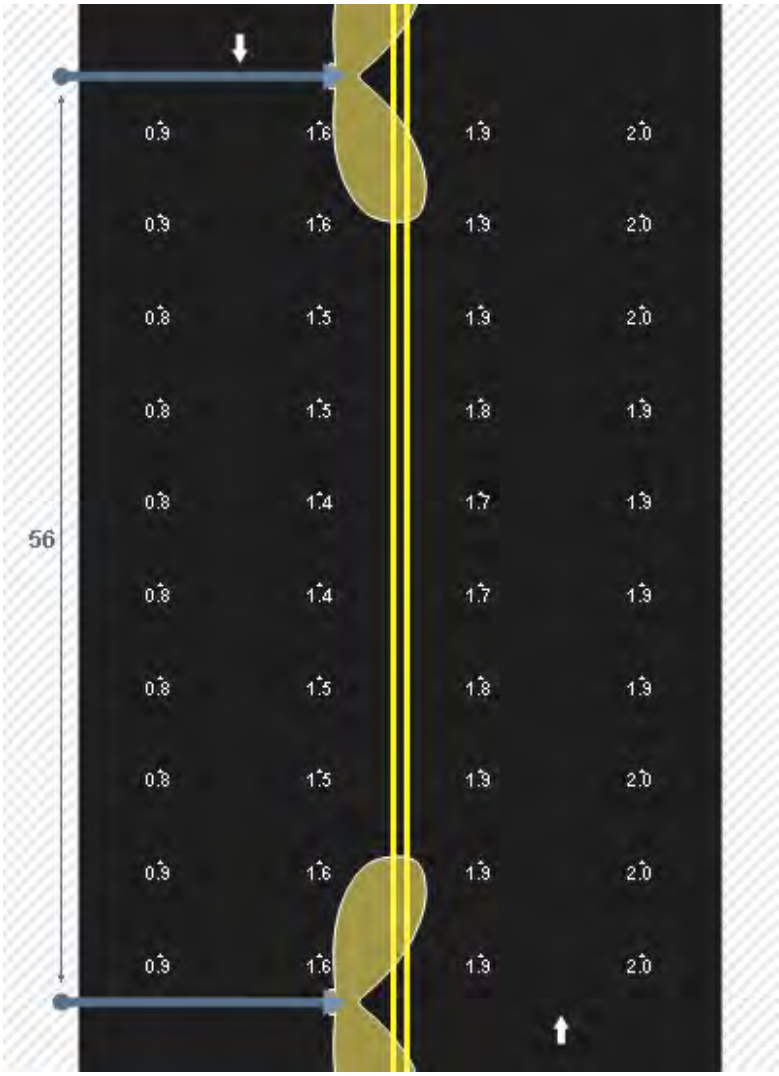

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.6	cd/m²
Max:	1.5	1.7	cd/m²
Min	0.6	1.5	cd/m²
Ave/Min:	1.6	1.1	
Max/Min:	2.3	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.6	

Illuminance	Left	Right	
Average:	1.2	1.9	fc
Max:	1.6	2	fc
Min	0.8	1.7	fc
Ave/Min:	1.5	1.1	
Max/Min:	2.1	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

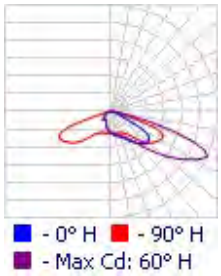
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

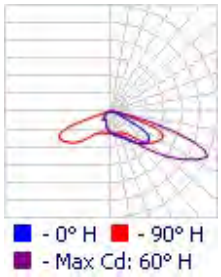
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	173.91 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	173.91 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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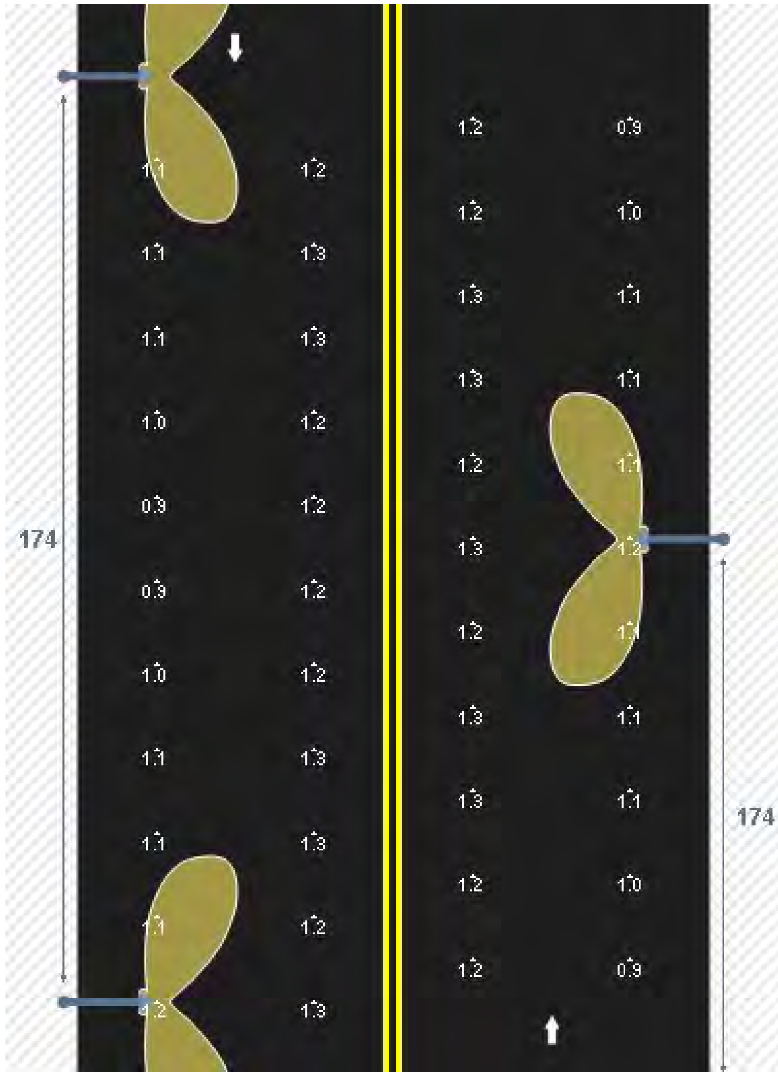

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc
Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

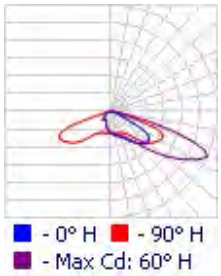
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

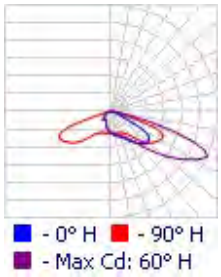
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	174.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	174.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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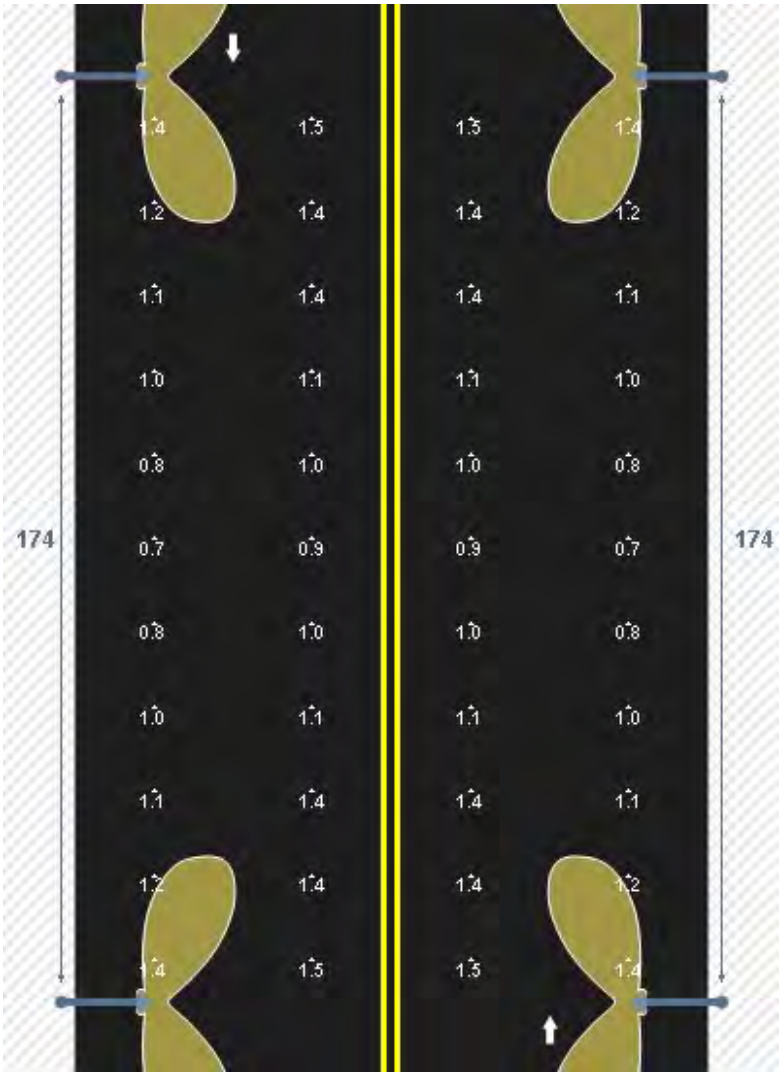

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	
Lv Ratio:	0.2	0.2	
STV:	2.9	2.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.7	0.7	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

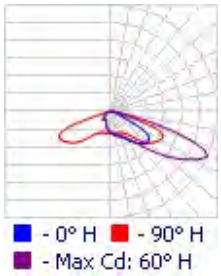
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	84.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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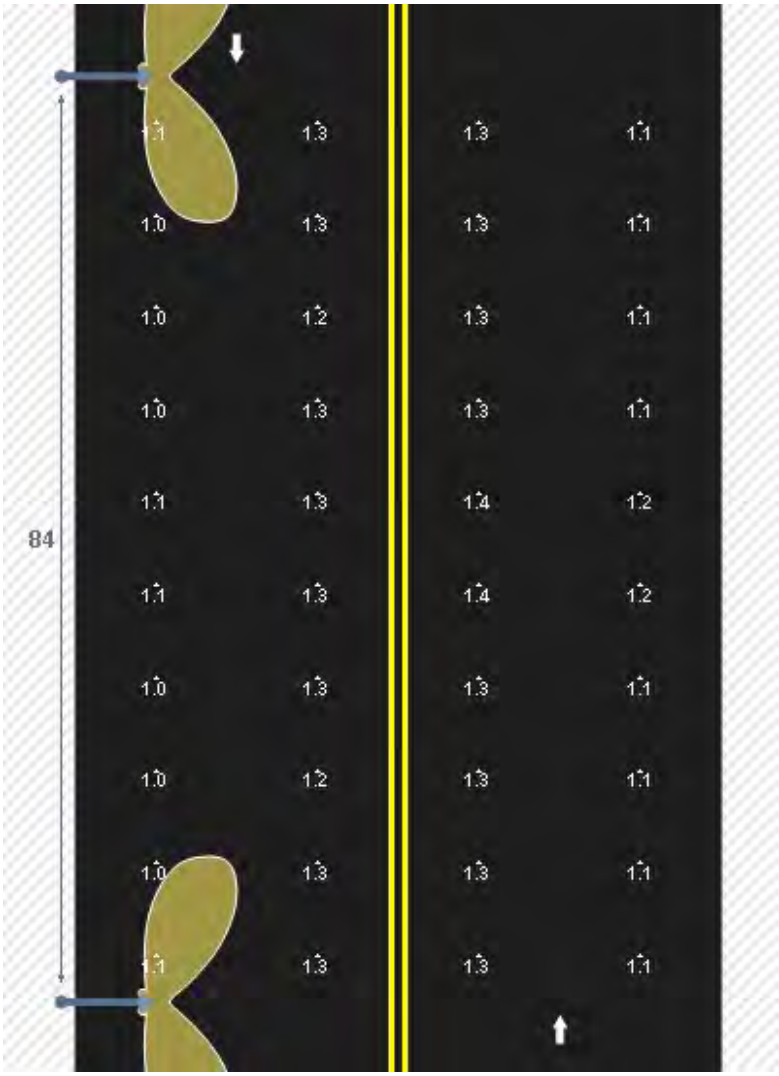

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	0.8	cd/m²
Max:	1.1	1	cd/m²
Min	1	0.7	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.7	1.8	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.4	fc
Min	1	1.1	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

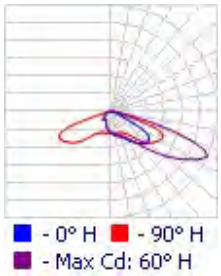
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

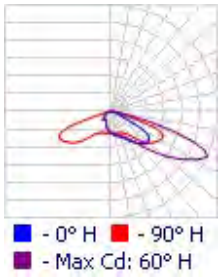
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	172.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	172.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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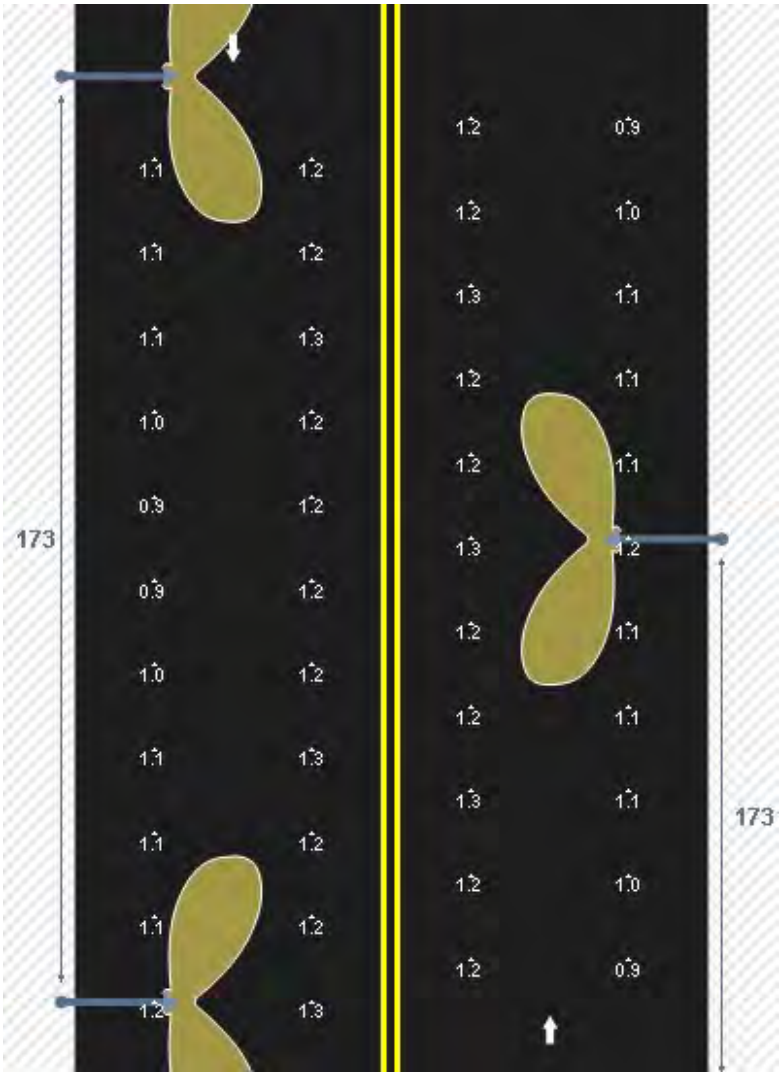

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

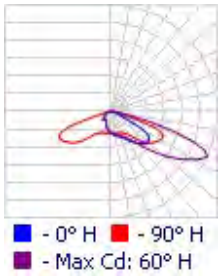
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

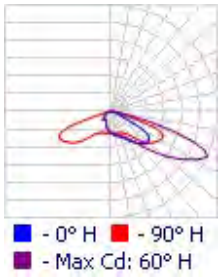
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	173.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	173.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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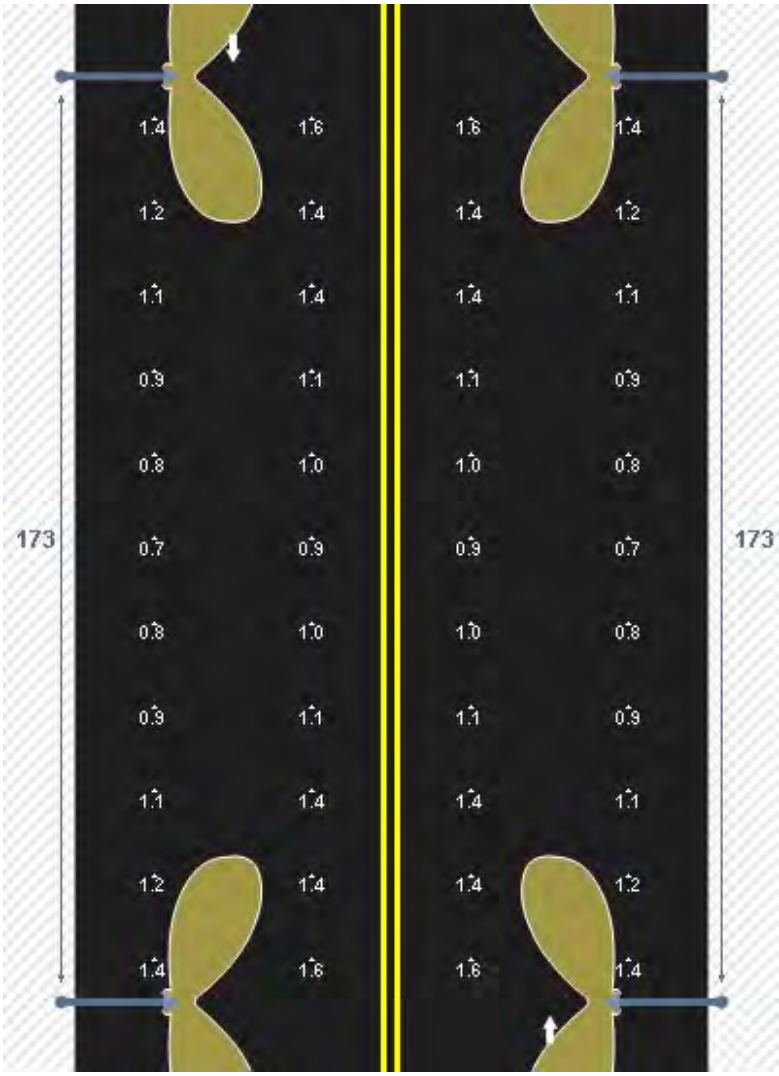

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.2	2.2	
Lv Ratio:	0.2	0.2	
STV:	2.8	2.8	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.7	0.7	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

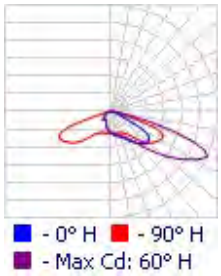
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	81.77 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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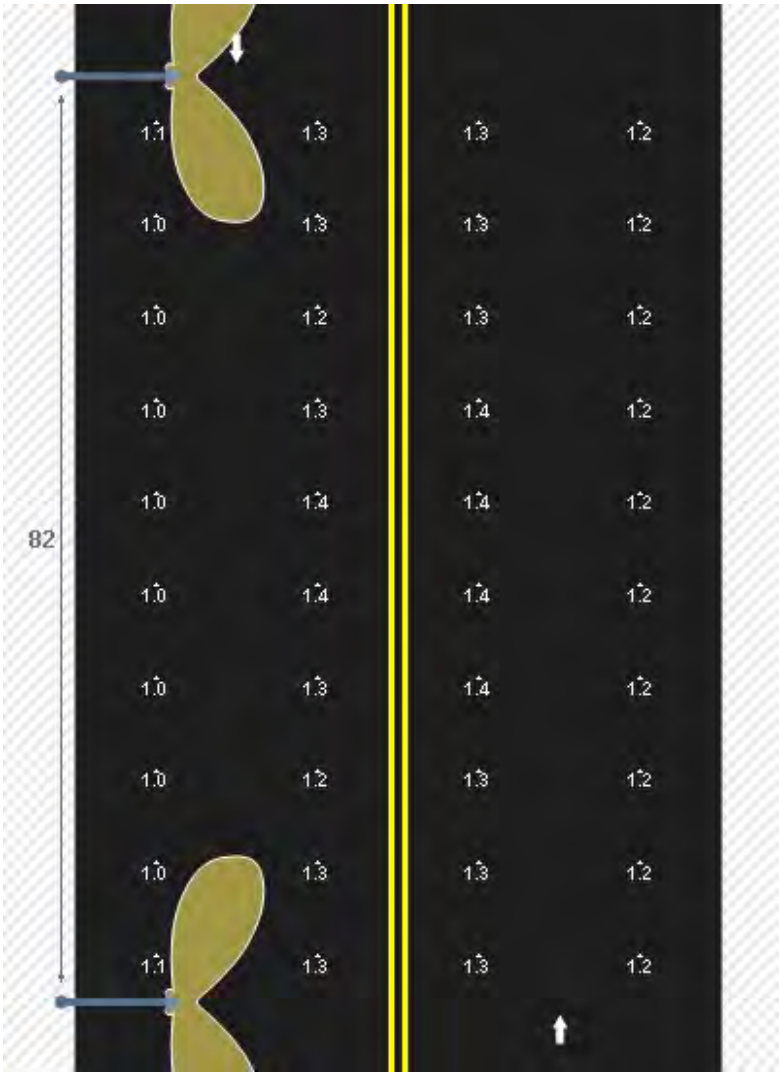

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	0.9	cd/m²
Max:	1.2	1	cd/m²
Min	0.9	0.7	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.3	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.7	

Illuminance	Left	Right	
Average:	1.2	1.3	fc
Max:	1.4	1.4	fc
Min	1	1.2	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

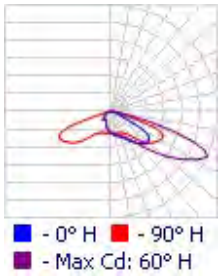
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

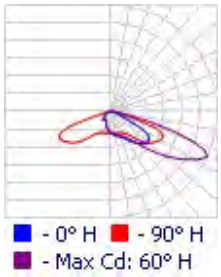
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	169.76 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	169.76 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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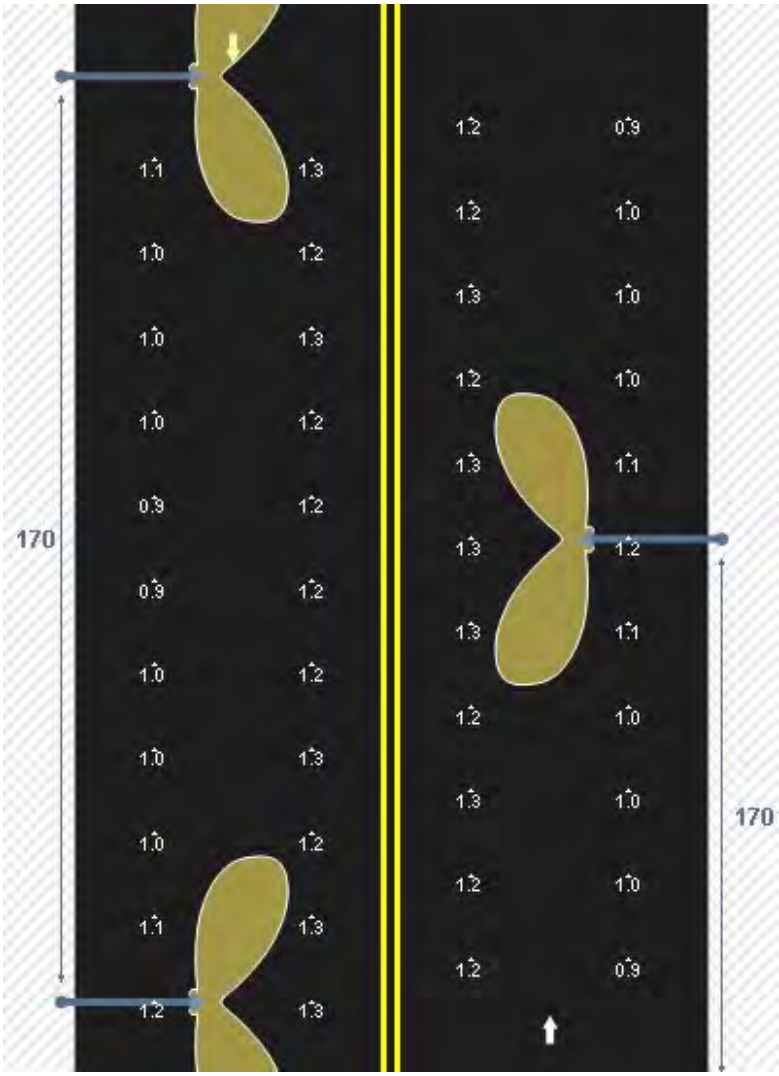

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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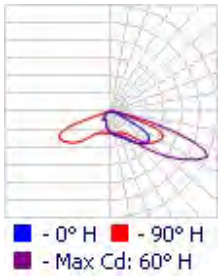
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

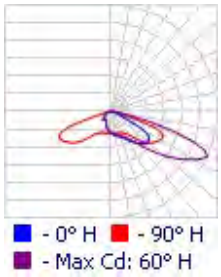
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	170.04 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	170.04 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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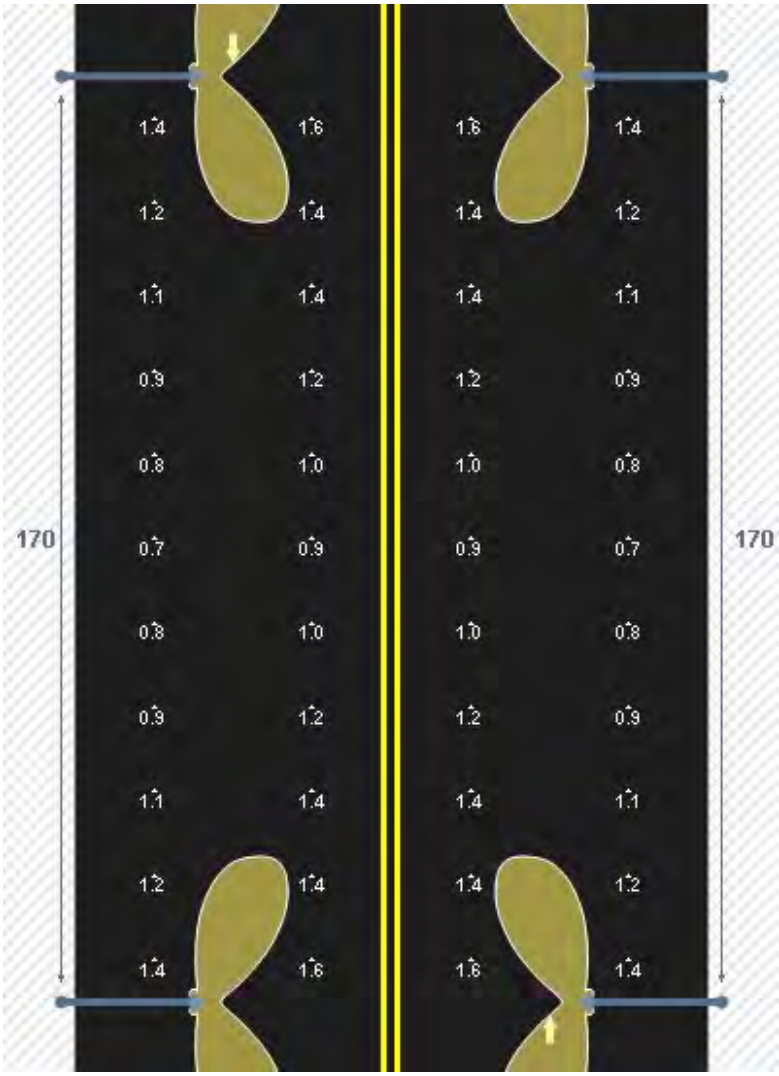

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.4	1.4	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2.3	2.3	
Lv Ratio:	0.2	0.2	
STV:	2.7	2.7	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.7	0.7	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

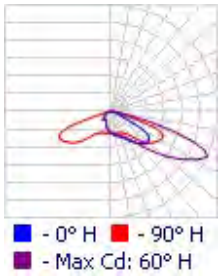
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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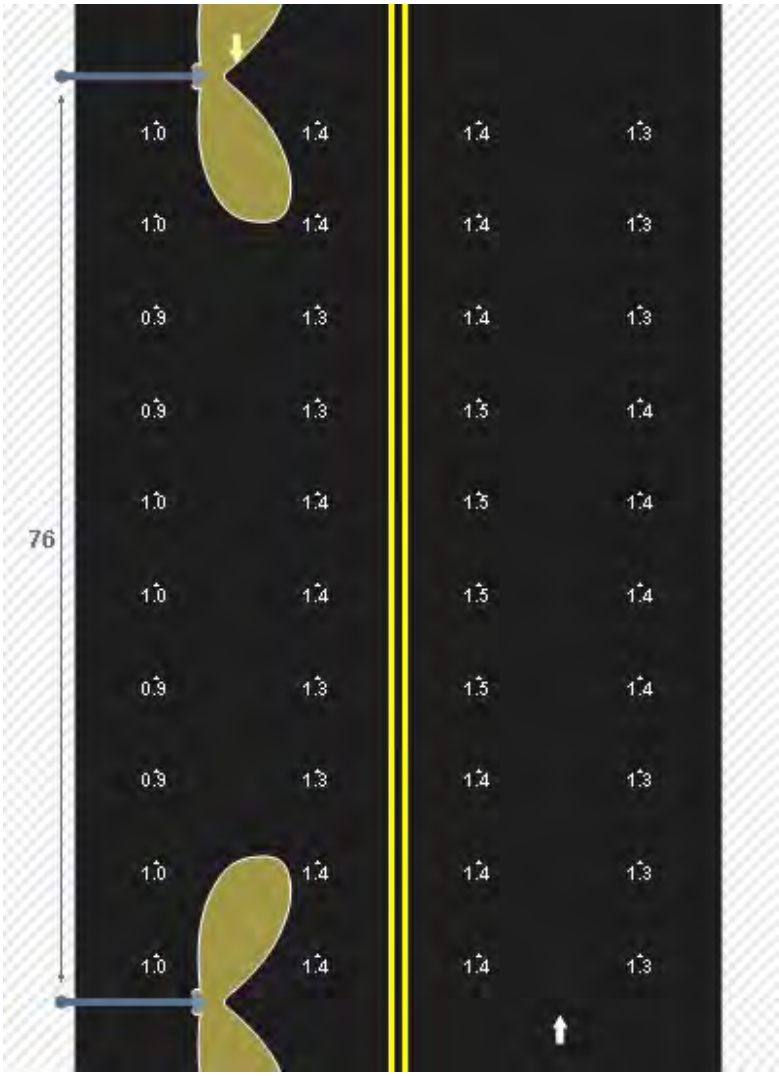

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1	cd/m²
Max:	1.3	1.1	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.6	1.6	

Illuminance	Left	Right	
Average:	1.2	1.4	fc
Max:	1.4	1.5	fc
Min	0.9	1.3	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.5	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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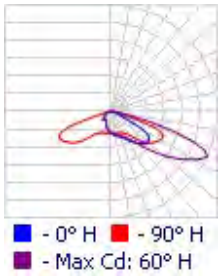
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

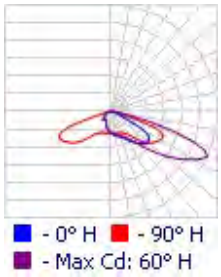
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	165.89 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	165.89 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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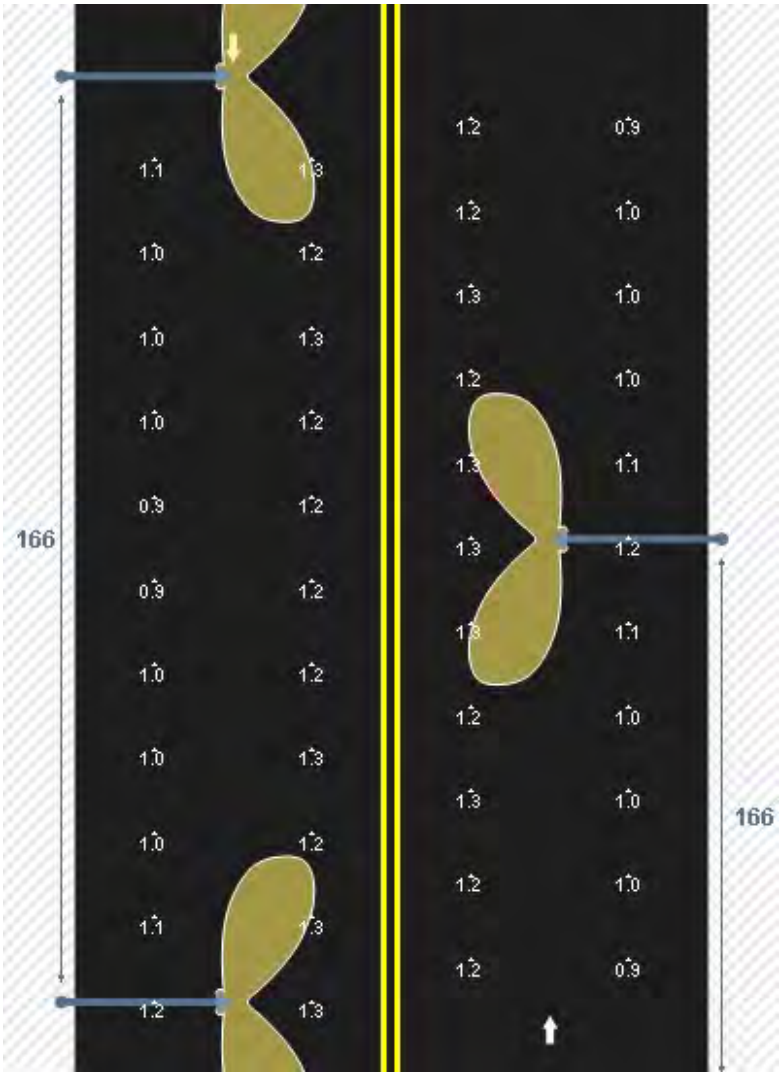

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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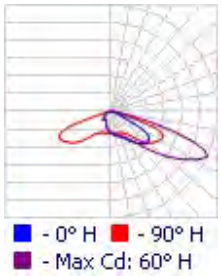
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

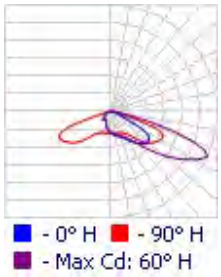
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	166.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	166.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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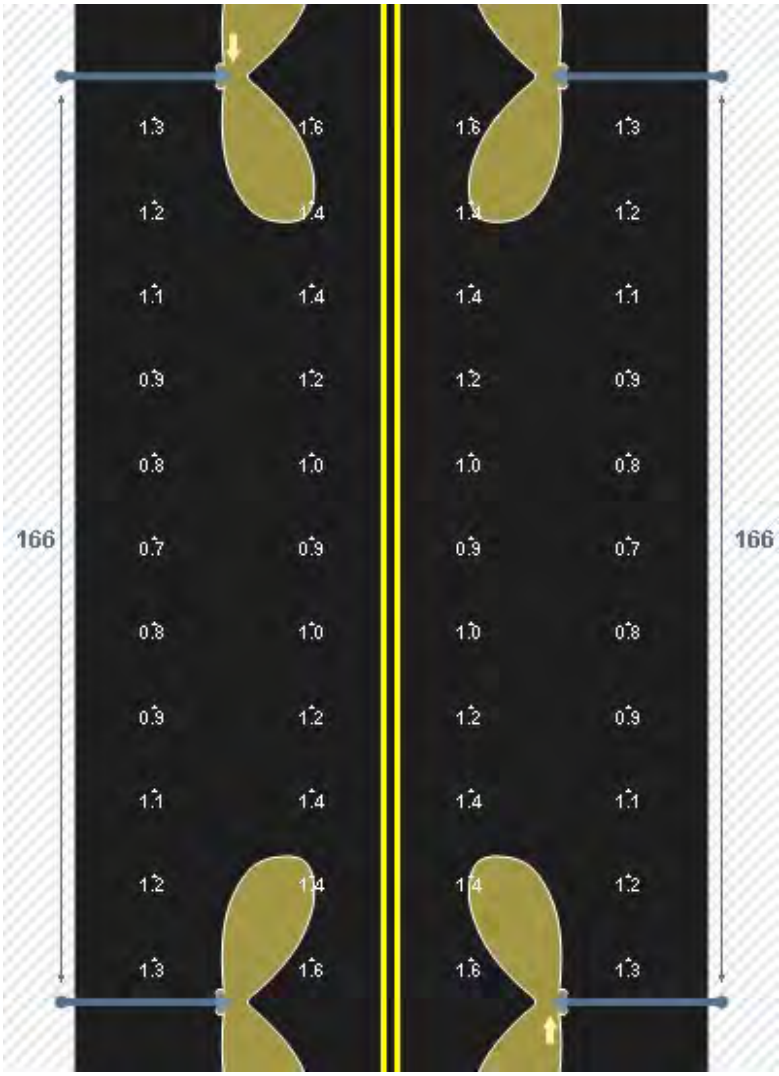

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.4	1.4	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.4	2.4	
Lv Ratio:	0.2	0.2	
STV:	2.6	2.6	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.7	0.7	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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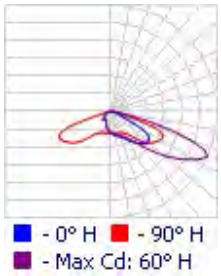
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	71.54 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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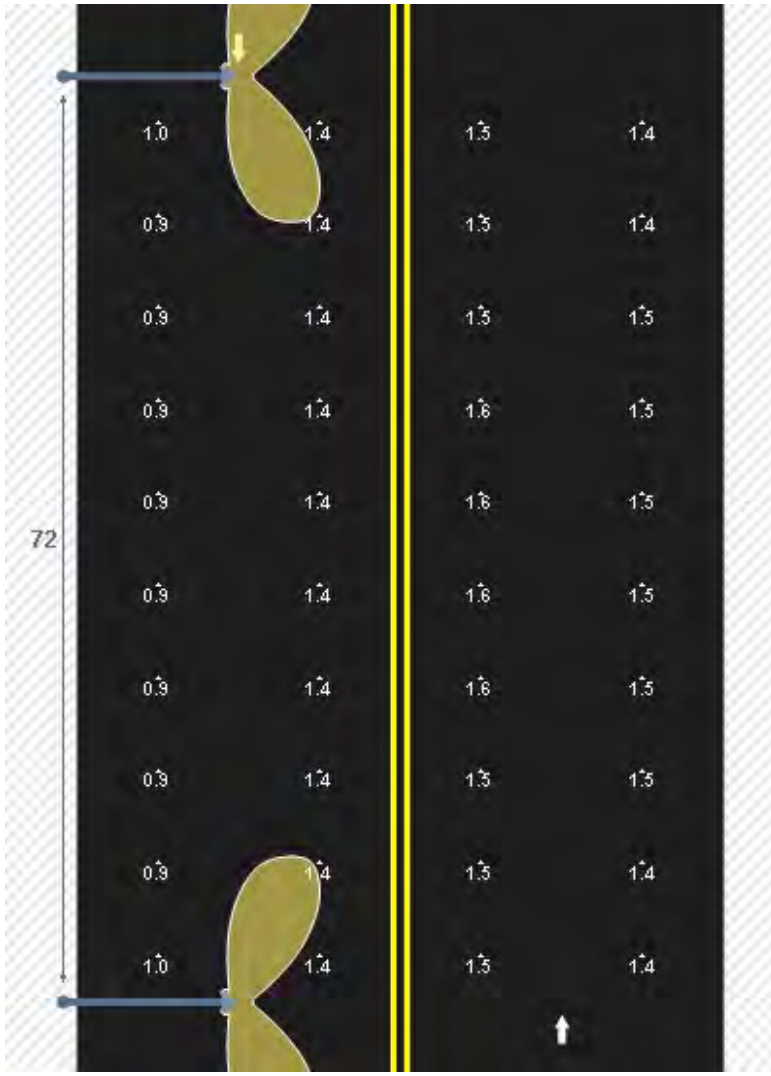

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.3	1.2	cd/m²
Min	0.8	0.9	cd/m²
Ave/Min:	1.3	1.2	
Max/Min:	1.7	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.5	1.5	

Illuminance	Left	Right	
Average:	1.2	1.5	fc
Max:	1.4	1.6	fc
Min	0.9	1.4	fc
Ave/Min:	1.3	1	
Max/Min:	1.6	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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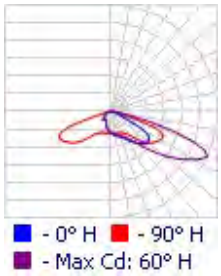
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

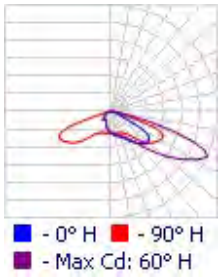
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	159.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	159.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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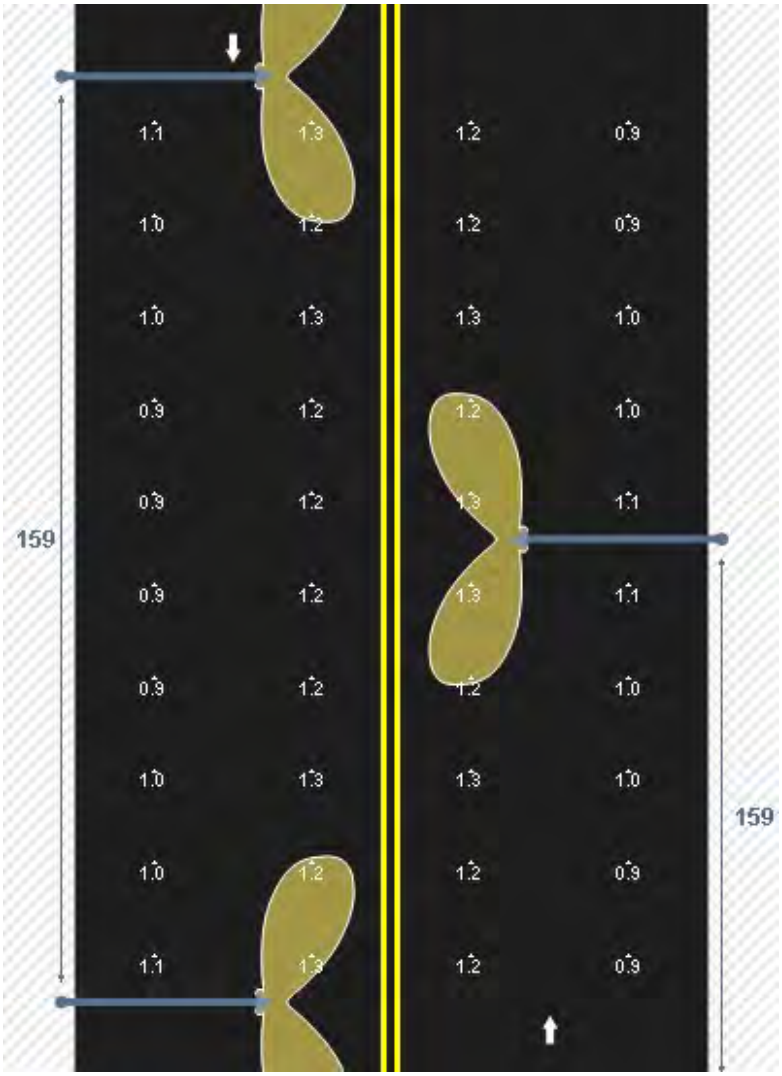

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	1.9	1.9	
Lv Ratio:	0.1	0.1	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

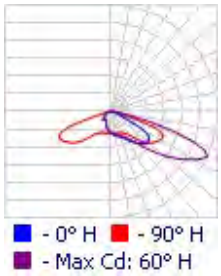
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

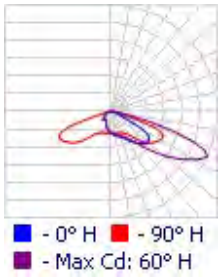
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	159.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	159.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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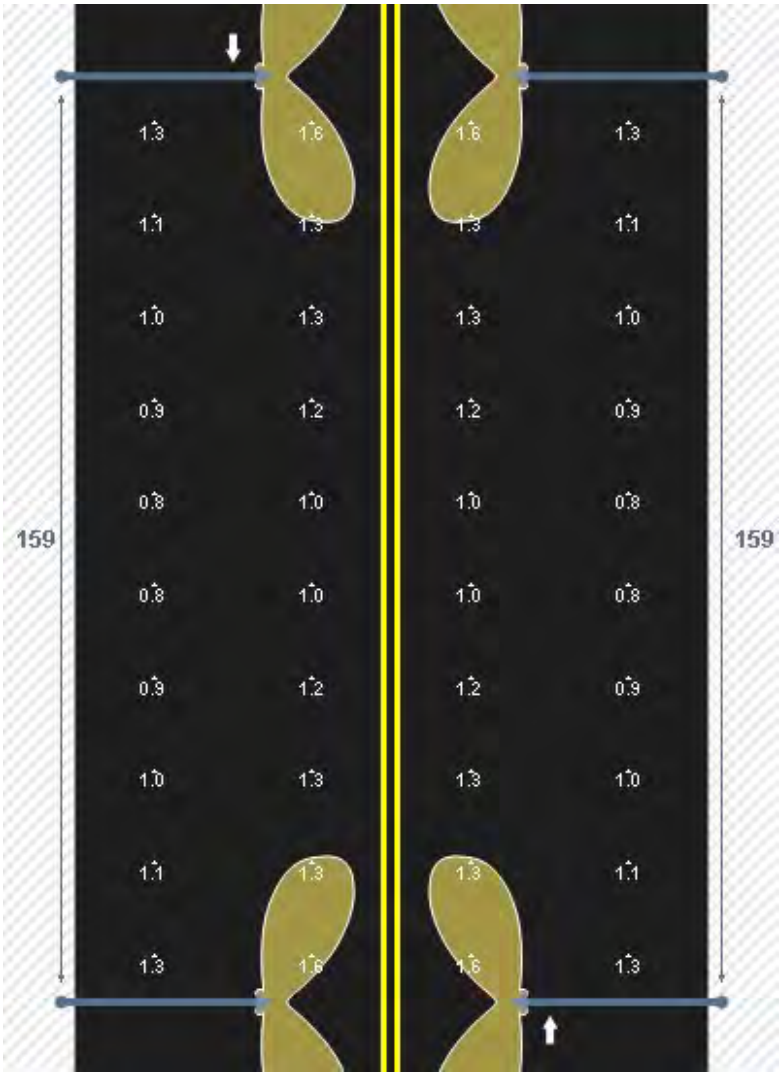

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.5	1.5	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.4	2.4	
Lv Ratio:	0.2	0.2	
STV:	2.4	2.4	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.6	1.6	fc
Min	0.8	0.8	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

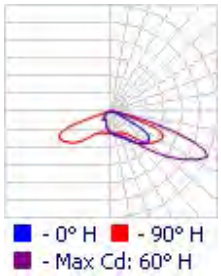
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	63.5 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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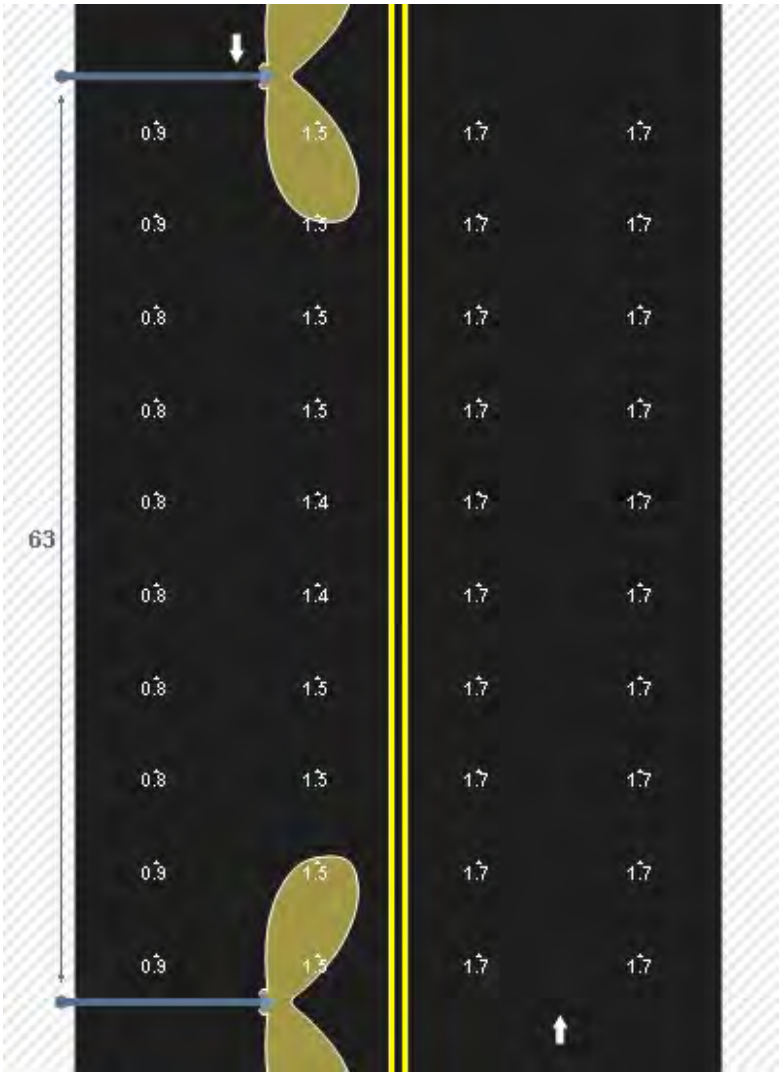

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.3	cd/m²
Max:	1.5	1.4	cd/m²
Min	0.7	1.1	cd/m²
Ave/Min:	1.5	1.1	
Max/Min:	2.1	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.5	1.4	

Illuminance	Left	Right	
Average:	1.2	1.7	fc
Max:	1.5	1.7	fc
Min	0.8	1.7	fc
Ave/Min:	1.5	1	
Max/Min:	2	1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Monday, April 19, 2021

Design Information

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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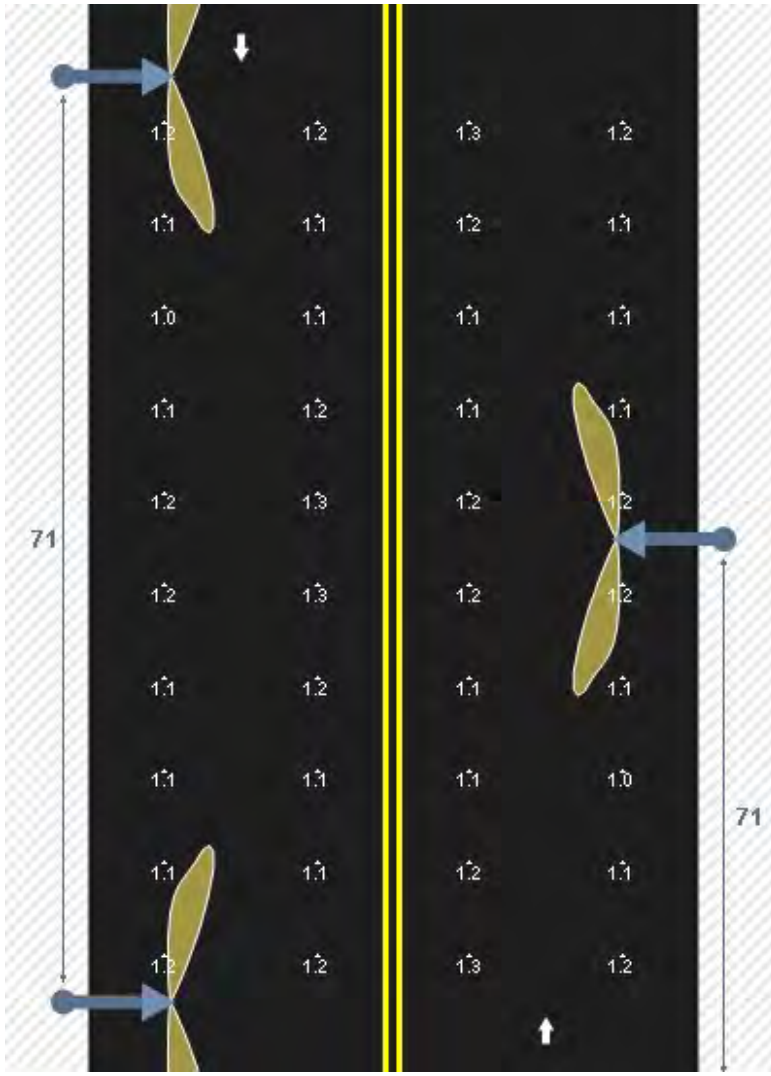

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.3	cd/m²
Max:	1.4	1.4	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1.1	1.1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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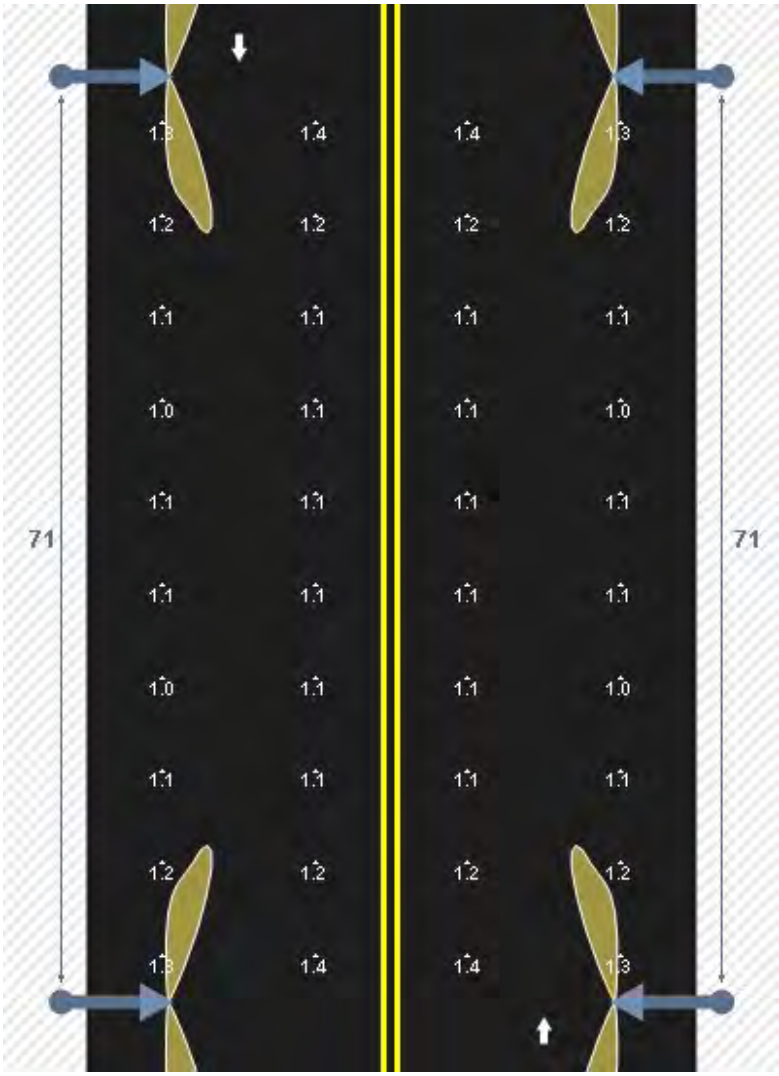

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.3	cd/m²
Max:	1.4	1.4	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (33 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	30.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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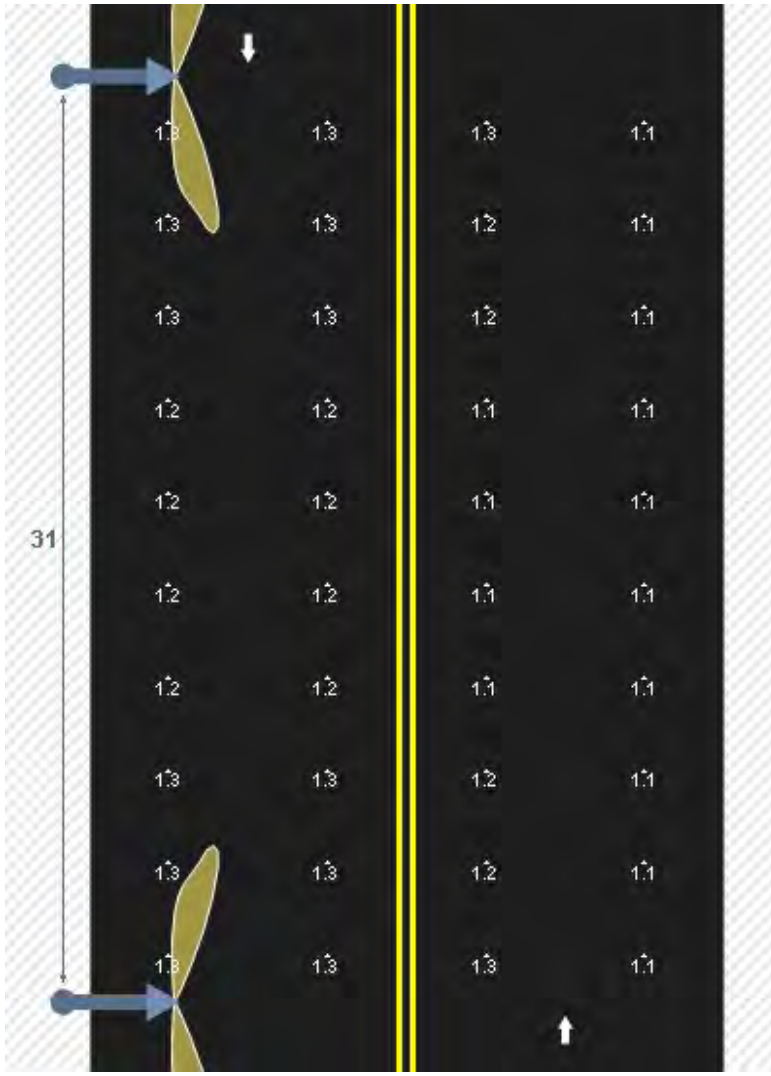

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.5	1.2	cd/m²
Max:	1.6	1.3	cd/m²
Min	1.4	1	cd/m²
Ave/Min:	1	1.1	
Max/Min:	1.1	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.6	1.4	

Illuminance	Left	Right	
Average:	1.3	1.2	fc
Max:	1.3	1.3	fc
Min	1.2	1.1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.1	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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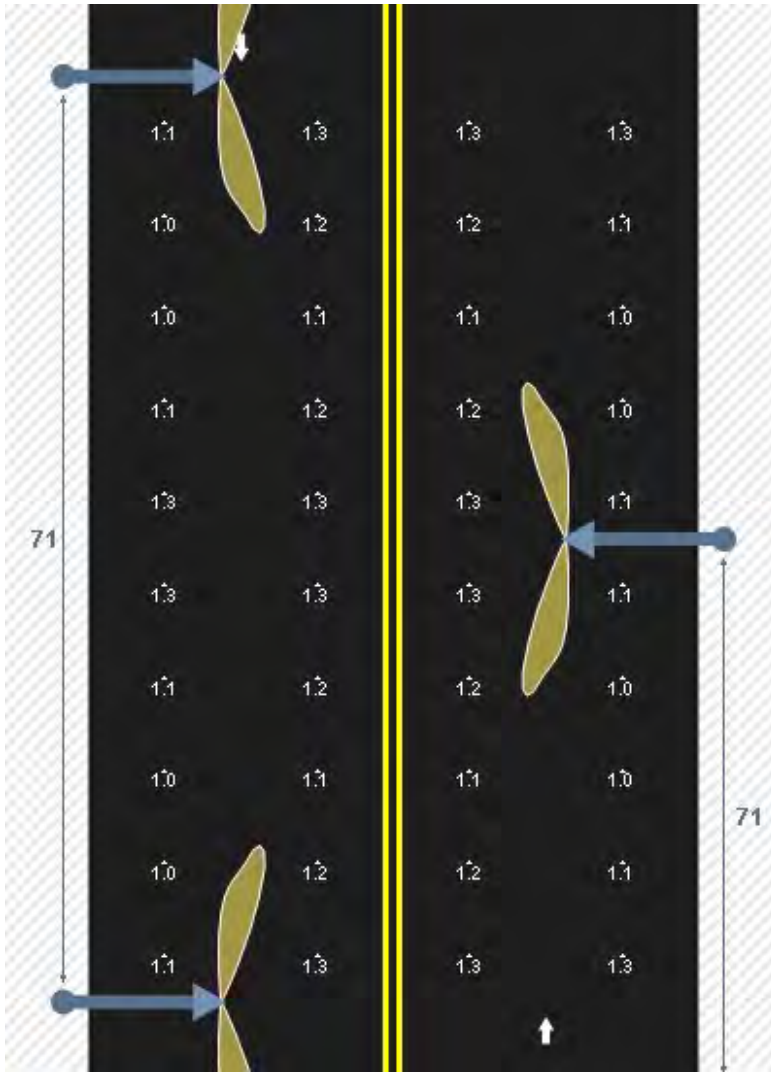

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.3	cd/m²
Max:	1.5	1.5	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Project Description

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Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	71.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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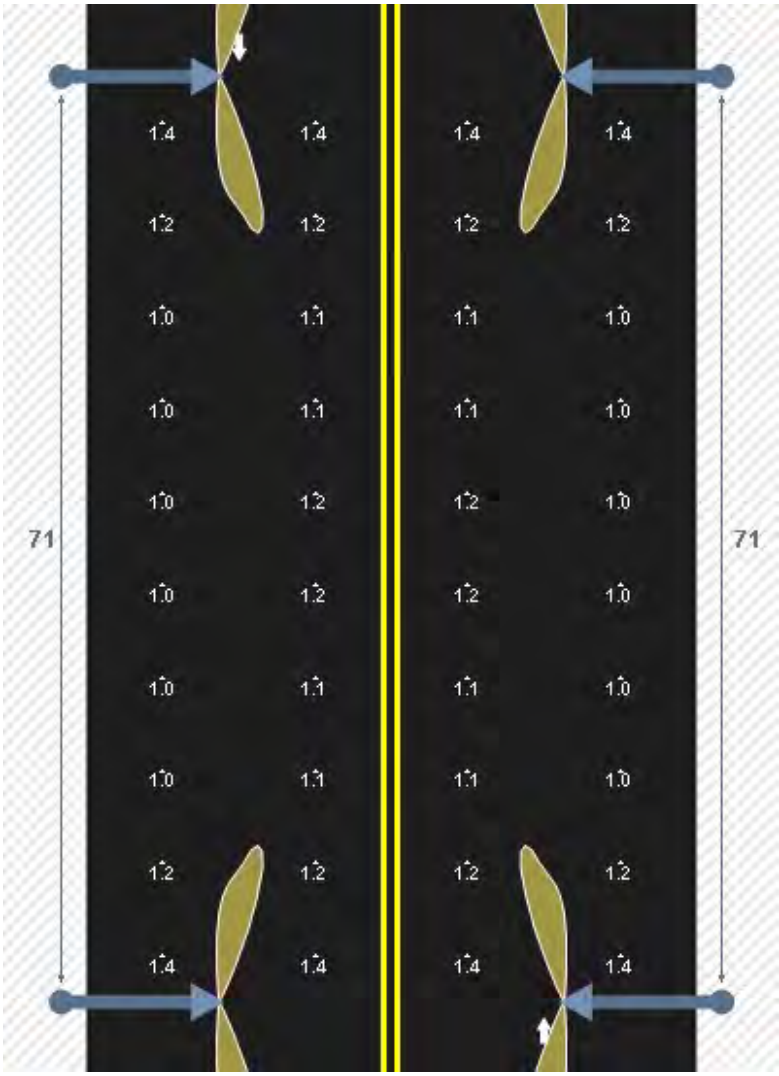

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.3	cd/m²
Max:	1.5	1.5	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	31.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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Visual - Roadway Tool

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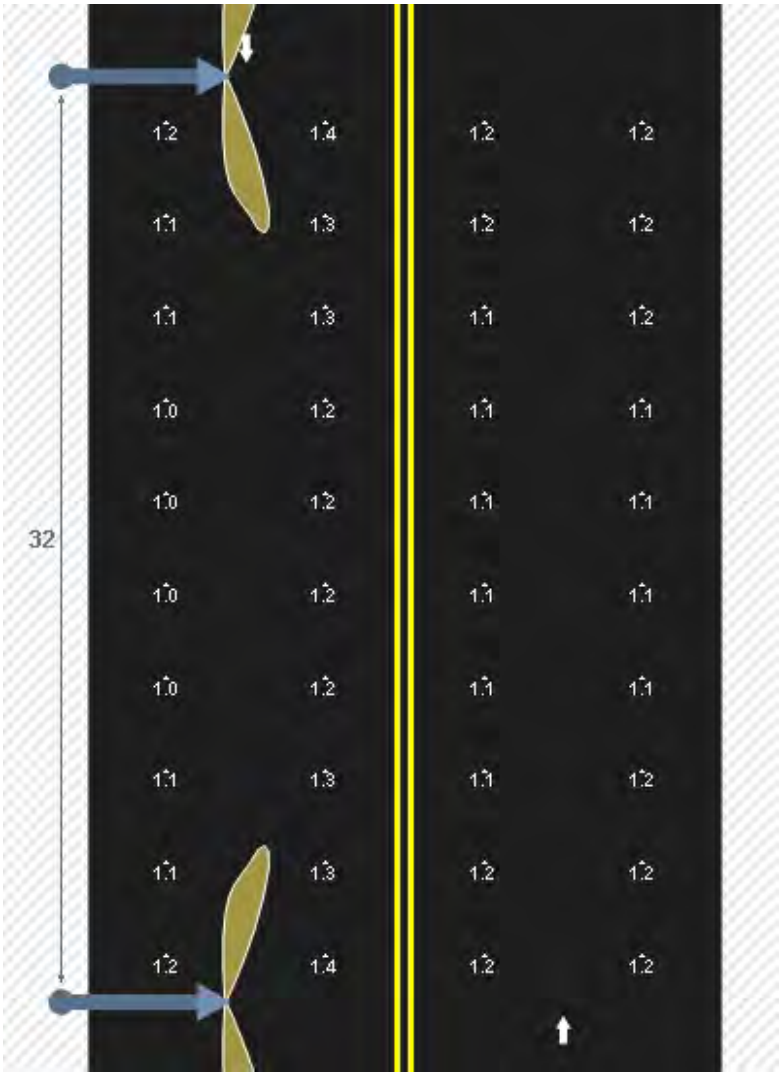

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.4	1.2	cd/m²
Max:	1.6	1.3	cd/m²
Min	1.2	1.1	cd/m²
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.7	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.2	fc
Min	1	1.1	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.3	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Project Description

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Company Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (29 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	69.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	69.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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Visual - Roadway Tool

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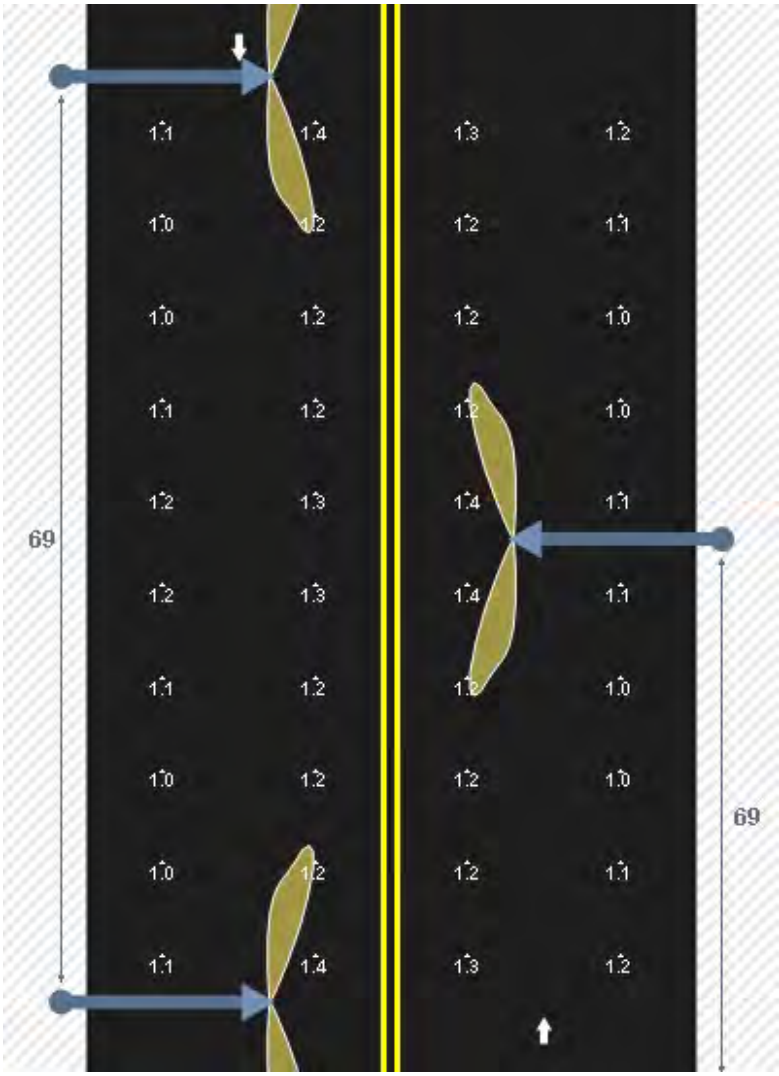

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.3	cd/m²
Max:	1.5	1.5	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Monday, April 19, 2021

Design Information

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Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (30 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	69.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	69.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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Visual - Roadway Tool

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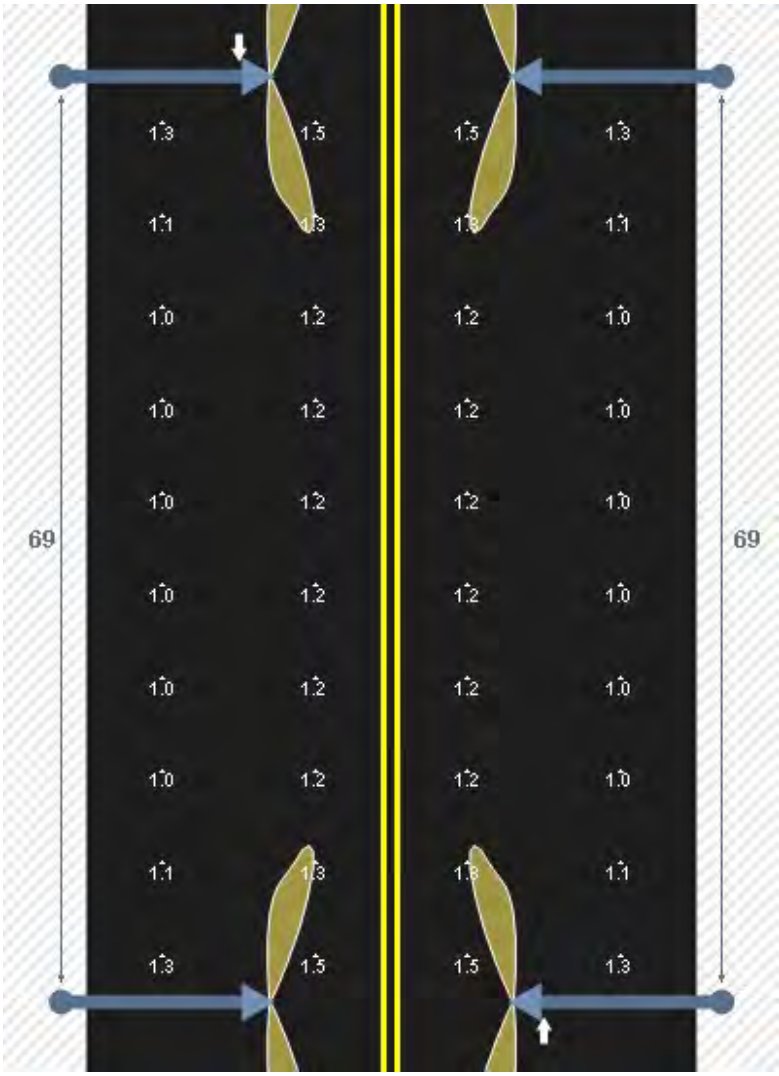

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.3	cd/m²
Max:	1.6	1.6	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.5	1.5	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (33 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	30.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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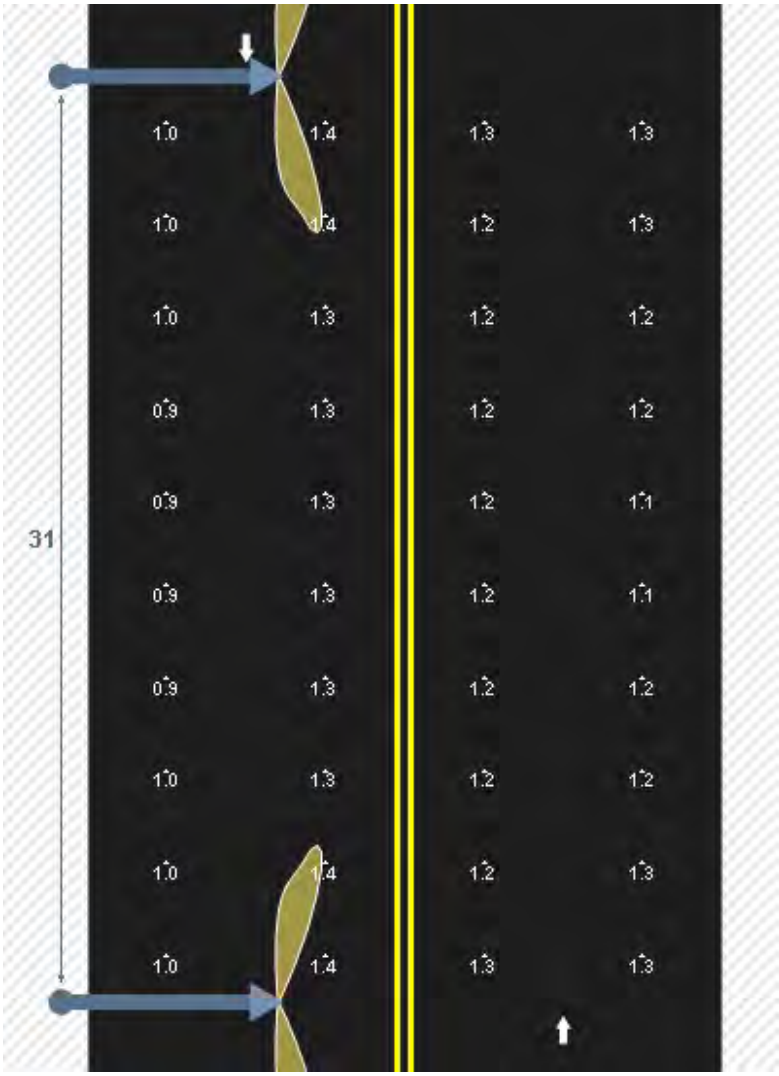

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	1.3	cd/m²
Max:	1.6	1.5	cd/m²
Min	0.9	1.2	cd/m²
Ave/Min:	1.4	1.2	
Max/Min:	1.7	1.3	
Lv Ratio:	0.1	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.3	fc
Min	0.9	1.1	fc
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	63.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	63.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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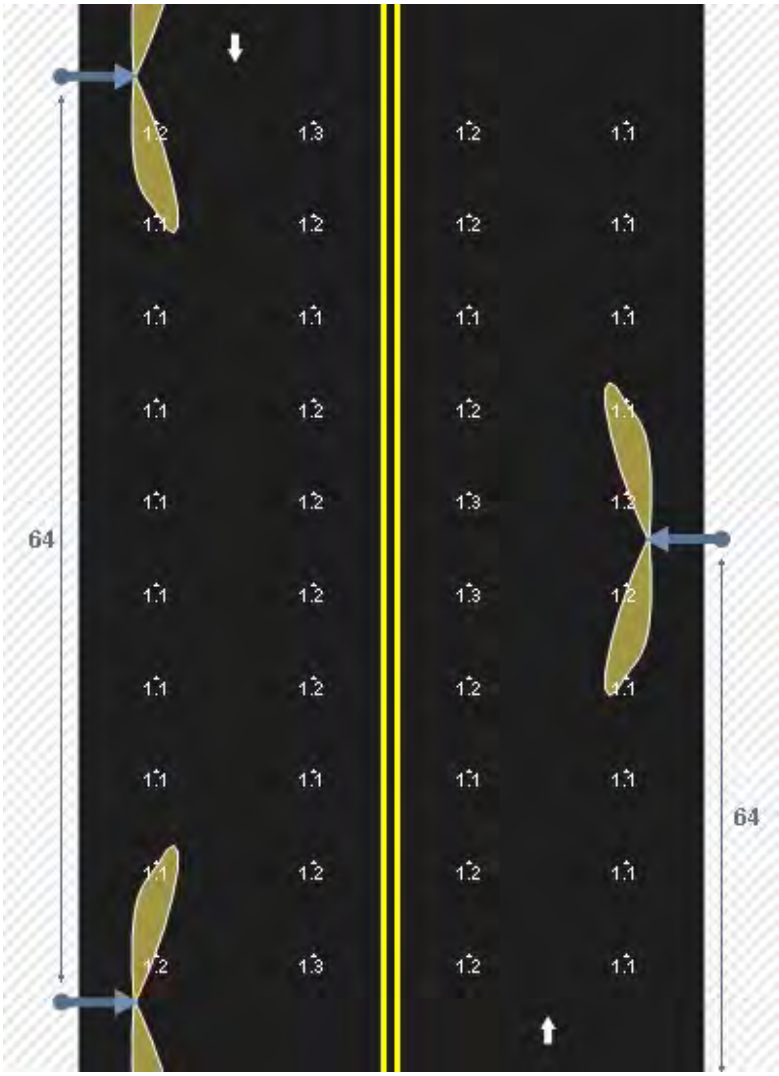

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.3	1.3	cd/m²
Min	1.2	1.2	cd/m²
Ave/Min:	1	1	
Max/Min:	1.1	1.1	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1.1	1.1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Company Name
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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	63.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	63.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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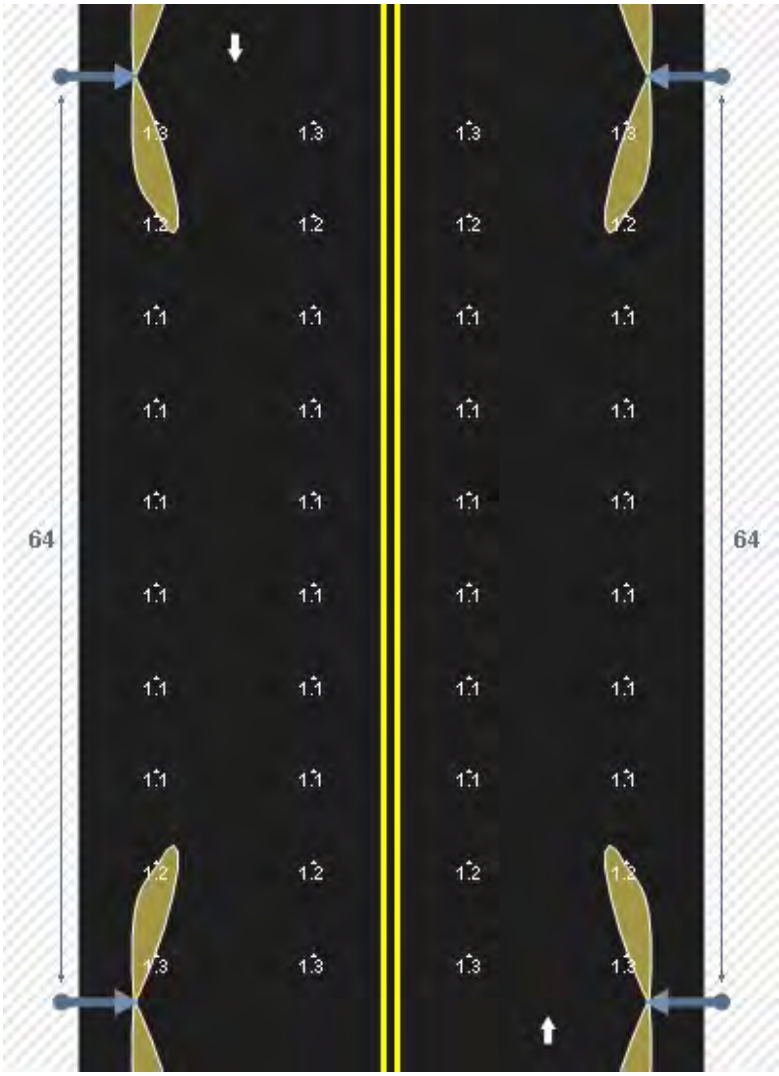

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.4	1.4	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1.1	1.1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (0 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	0 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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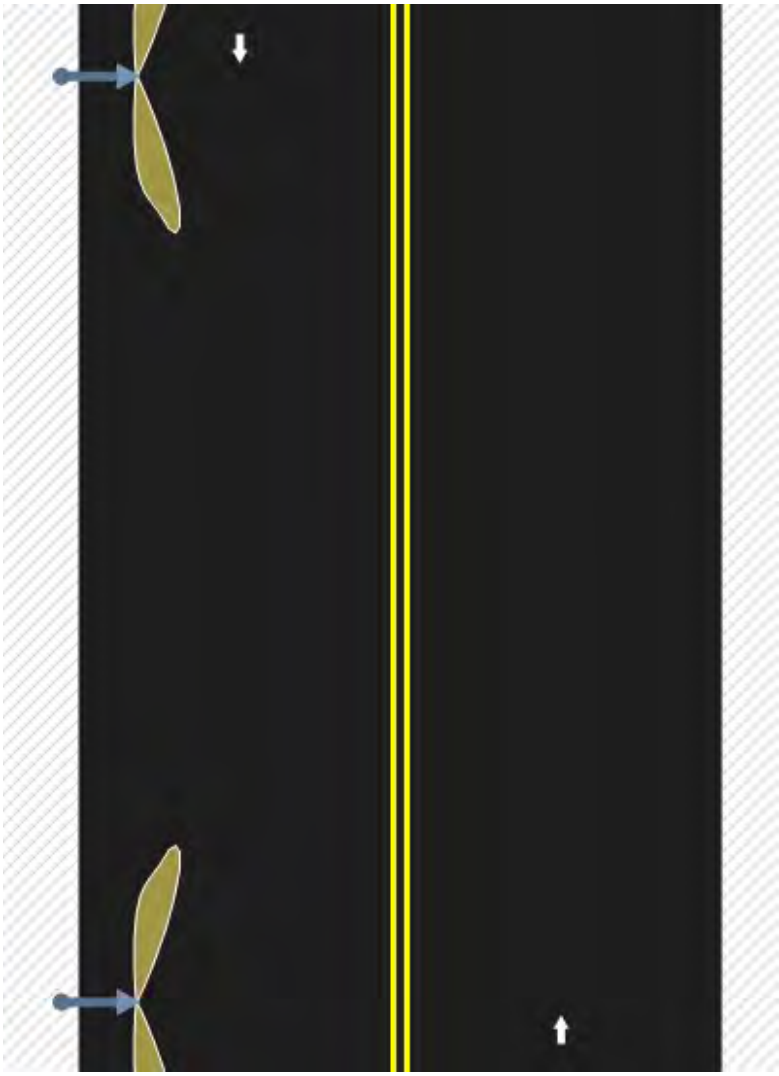

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	--	--	cd/m²
Max:	--	--	cd/m²
Min	--	--	cd/m²
Ave/Min:	--	--	
Max/Min:	--	--	
Lv Ratio:	--	--	
STV:	--	--	

Illuminance	Left	Right	
Average:	--	--	fc
Max:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Max/Min:	--	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Monday, April 19, 2021

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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (31 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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Visual - Roadway Tool

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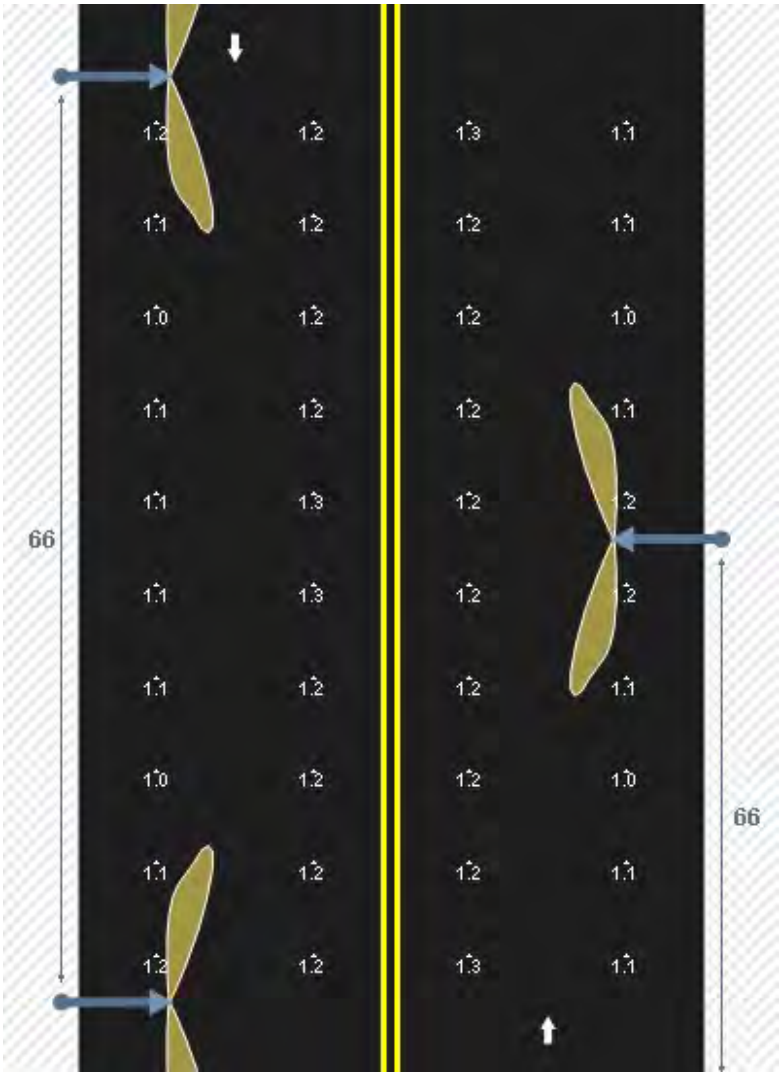

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.4	1.4	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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Visual - Roadway Tool

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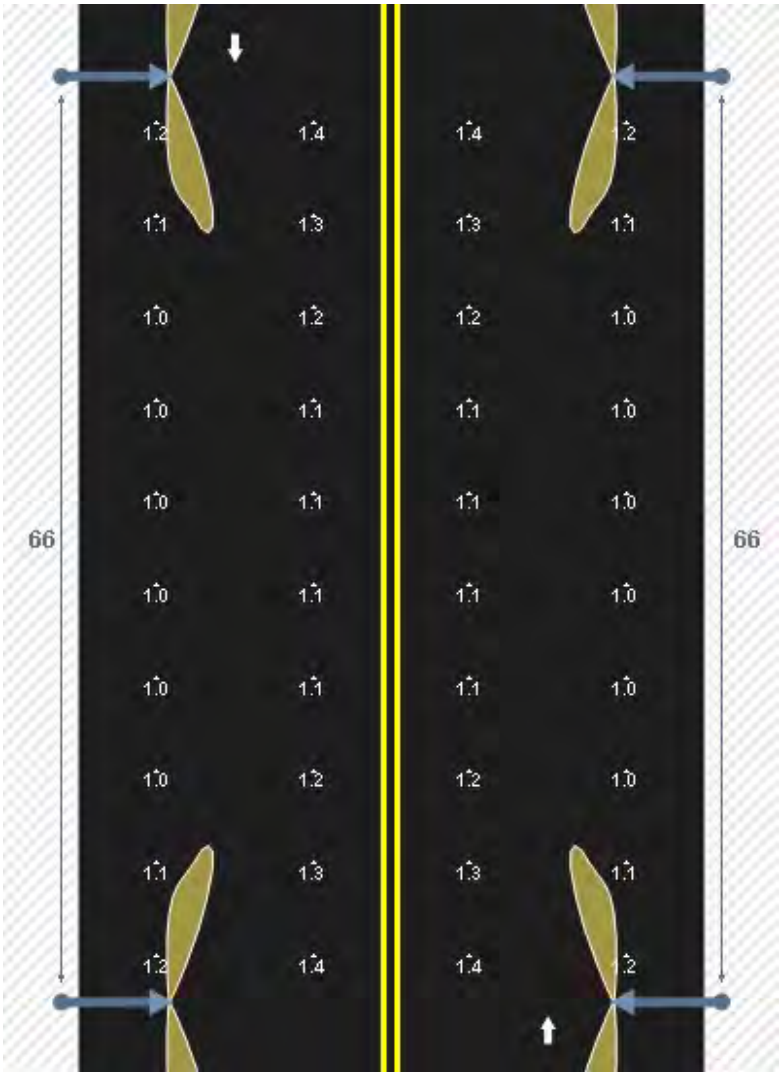

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.4	1.4	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

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Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (0 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	0 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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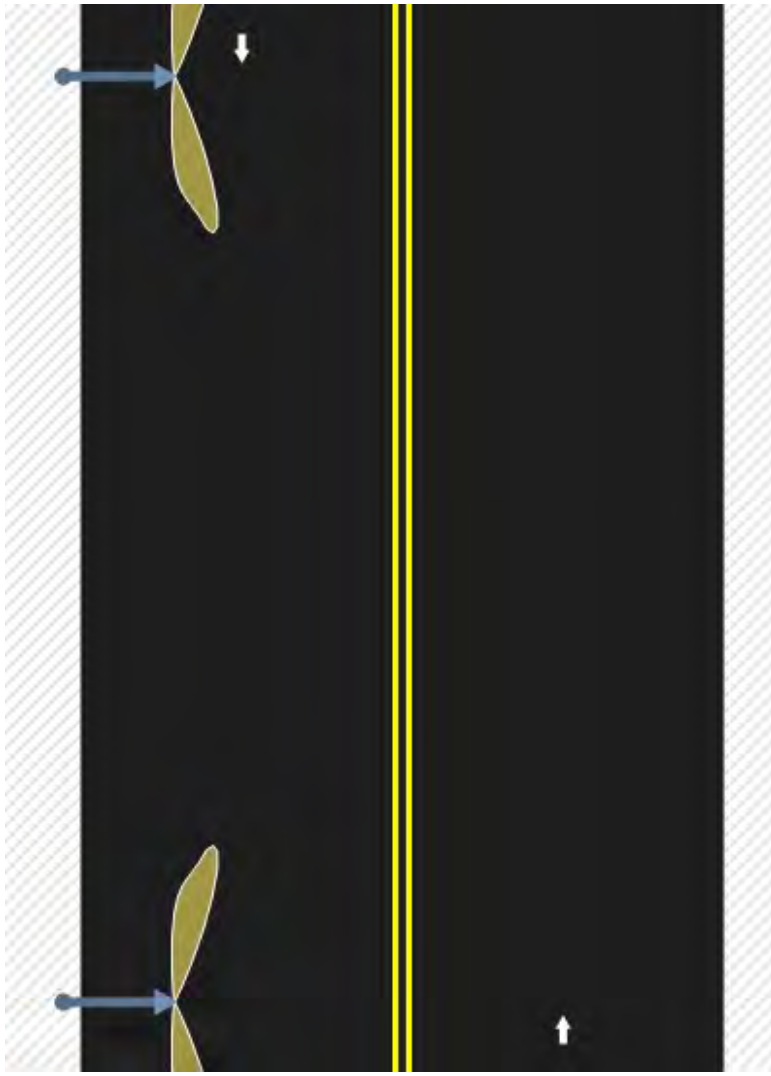

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	--	--	cd/m²
Max:	--	--	cd/m²
Min	--	--	cd/m²
Ave/Min:	--	--	
Max/Min:	--	--	
Lv Ratio:	--	--	
STV:	--	--	

Illuminance	Left	Right	
Average:	--	--	fc
Max:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Max/Min:	--	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (31 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	True	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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Visual - Roadway Tool

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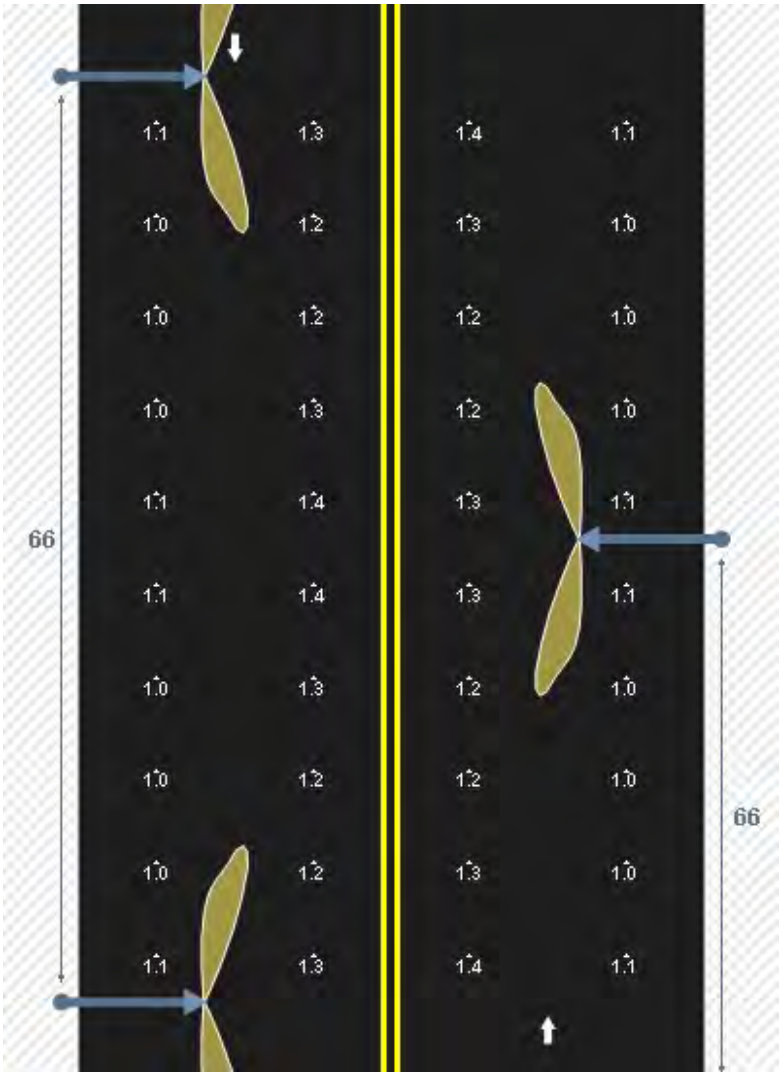

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.5	1.5	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

Right Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	65.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.88	Lamp Count:	18

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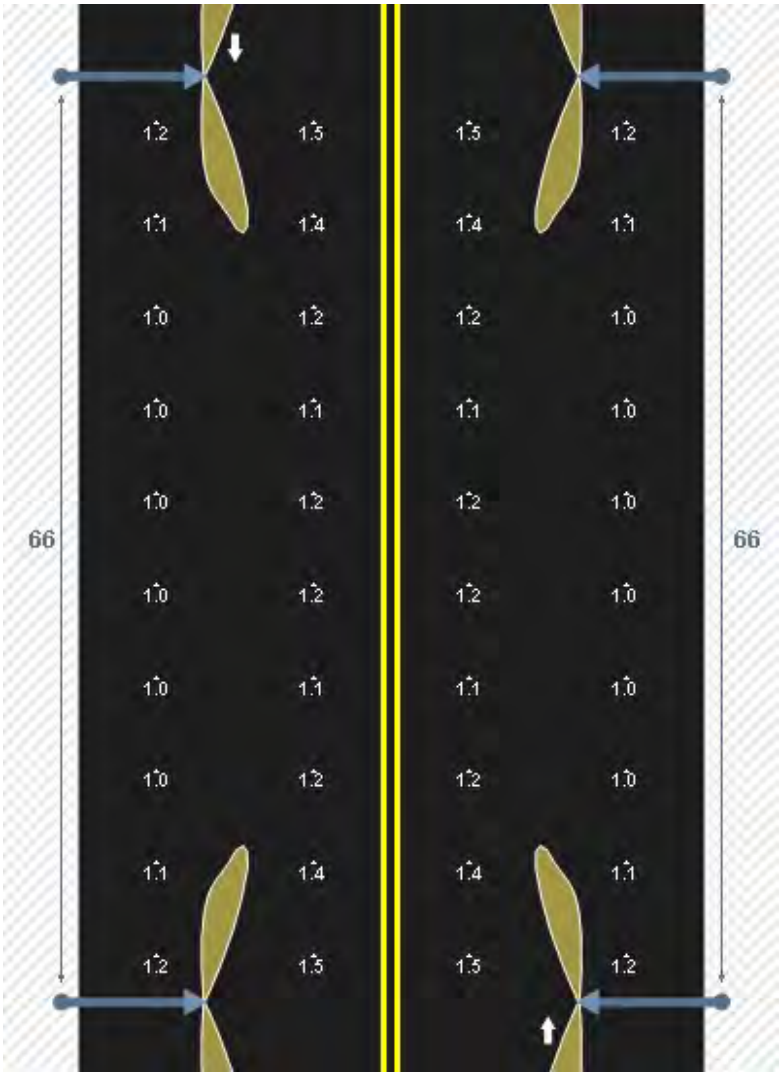

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.6	1.6	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.5	1.5	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (0 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - LED Roadway Lighting Ltd, Halifax. NS Canada: L R16S 5 X 2ES 7 X XX AM XX XX

Cycle Spacing:	0 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	112
Staggered:	False	Wattage:	31
Light Loss Factor:	0.79	Lamp Count:	18

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Visual - Roadway Tool

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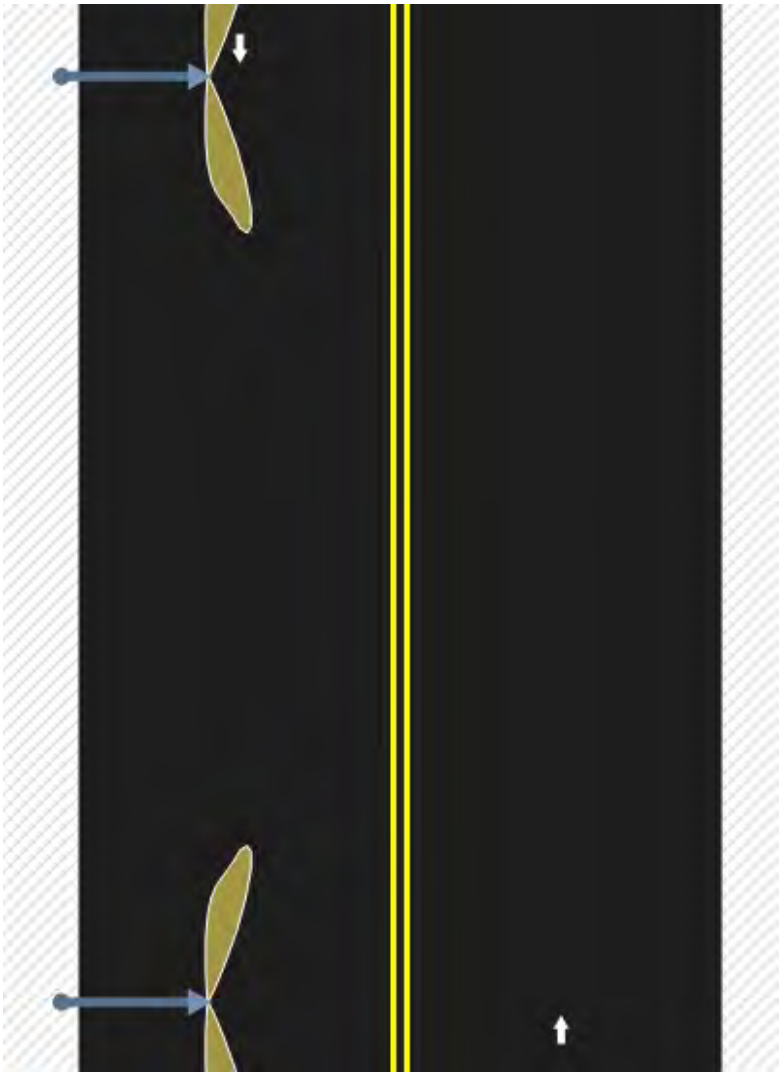

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	--	--	cd/m²
Max:	--	--	cd/m²
Min	--	--	cd/m²
Ave/Min:	--	--	
Max/Min:	--	--	
Lv Ratio:	--	--	
STV:	--	--	

Illuminance	Left	Right	
Average:	--	--	fc
Max:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Max/Min:	--	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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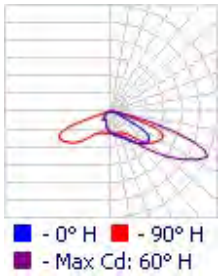
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

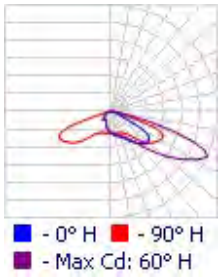
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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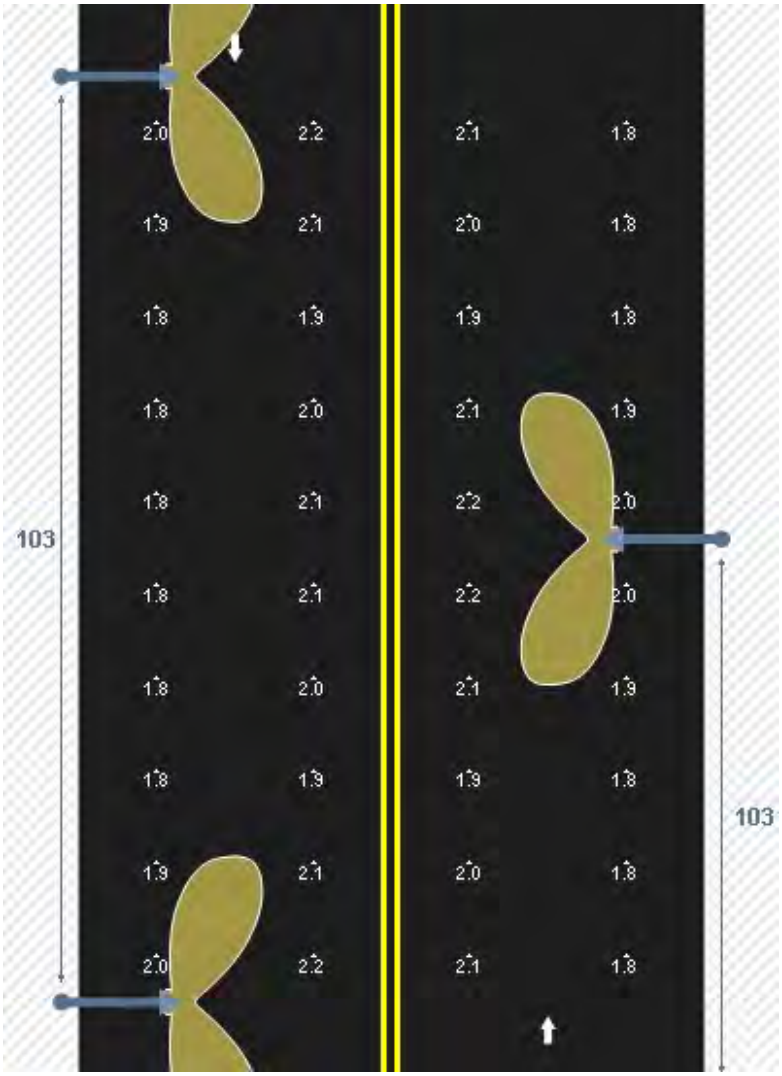

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Project Description

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Your Phone
Your Email

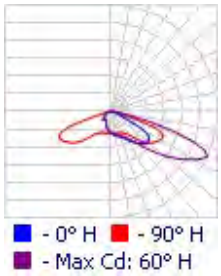
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

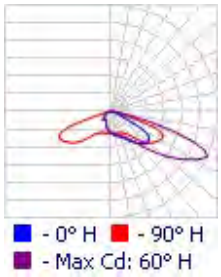
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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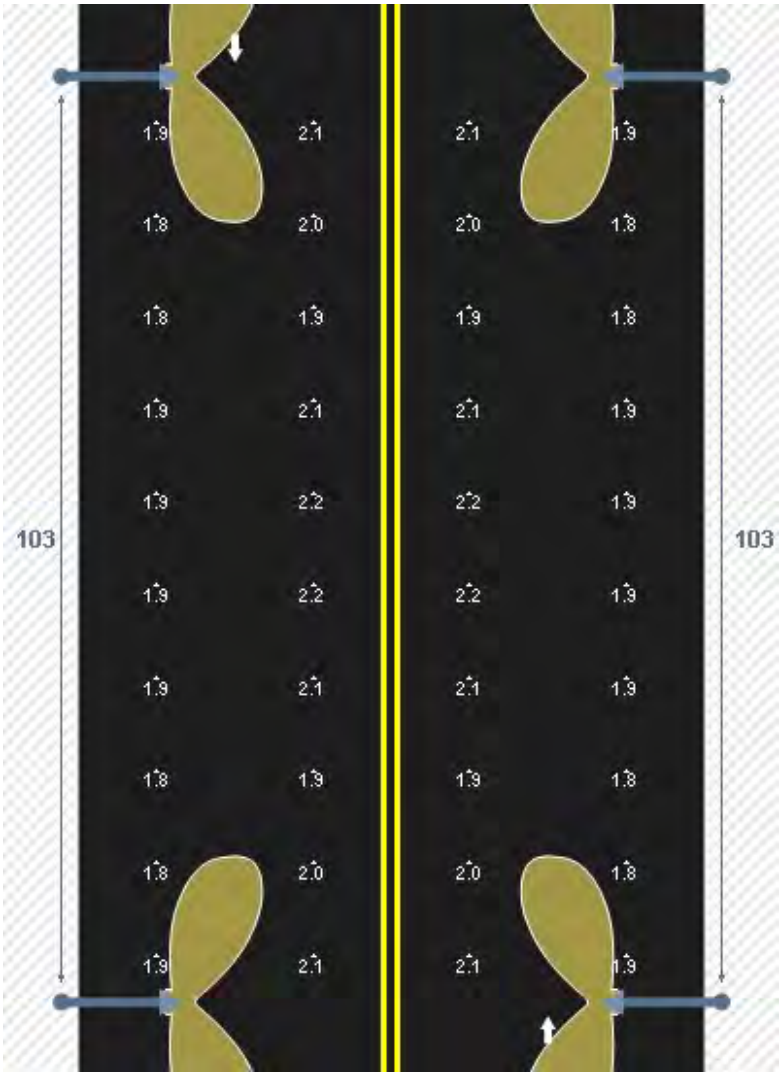

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

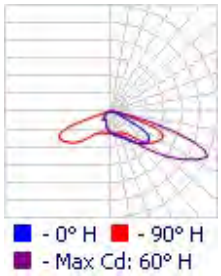
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	47.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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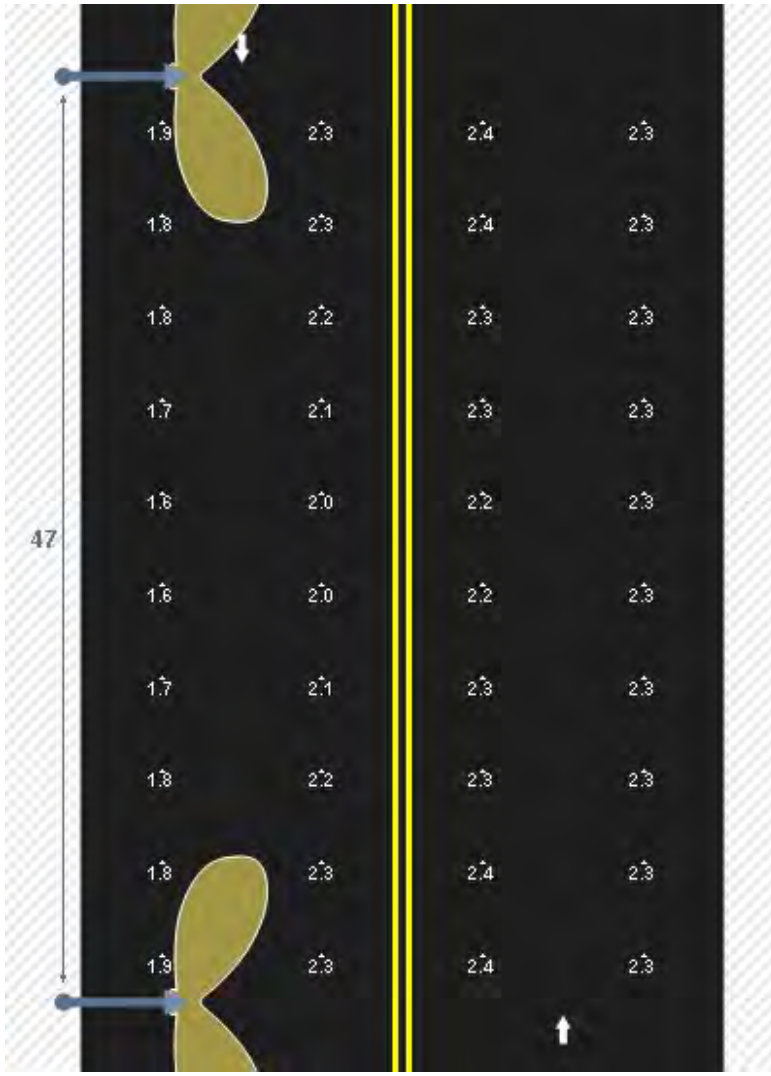

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.7	cd/m²
Max:	2	1.9	cd/m²
Min	1.6	1.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.4	1.6	

Illuminance	Left	Right	
Average:	2	2.3	fc
Max:	2.3	2.4	fc
Min	1.6	2.2	fc
Ave/Min:	1.2	1	
Max/Min:	1.4	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

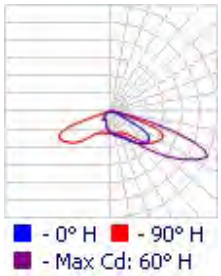
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

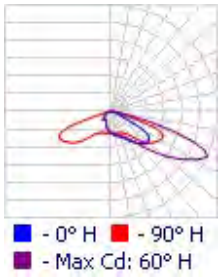
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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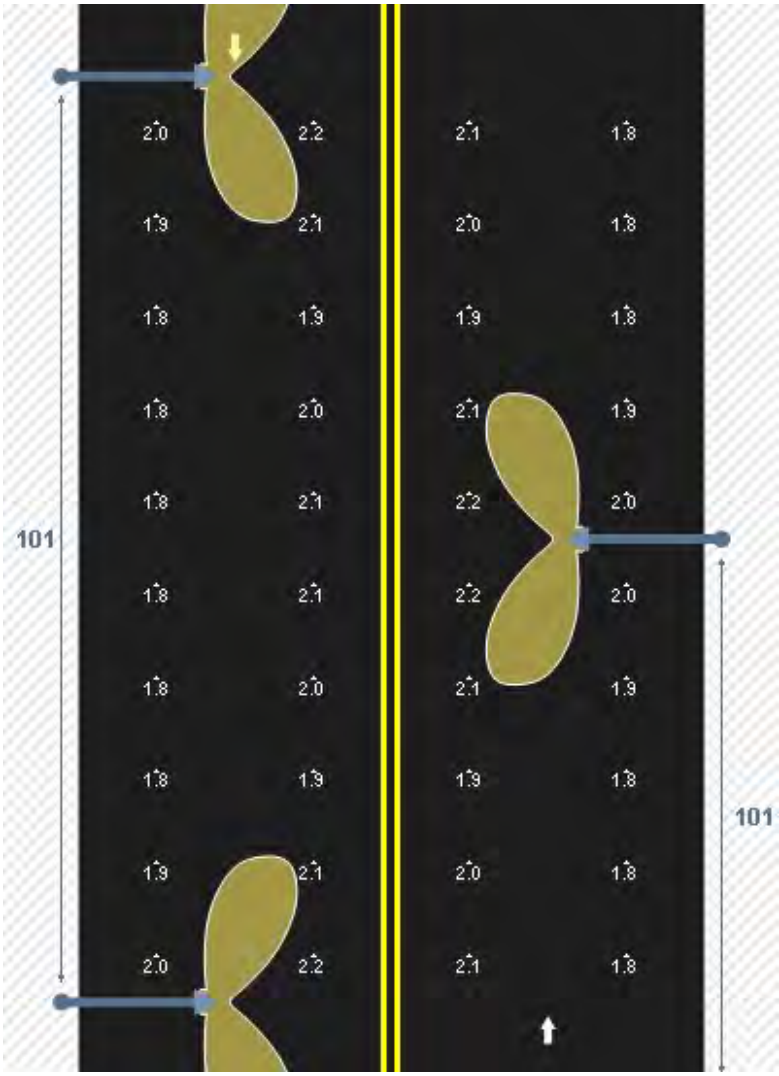

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

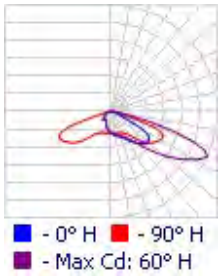
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

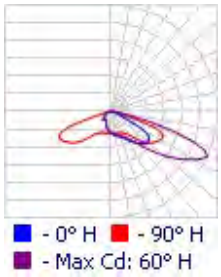
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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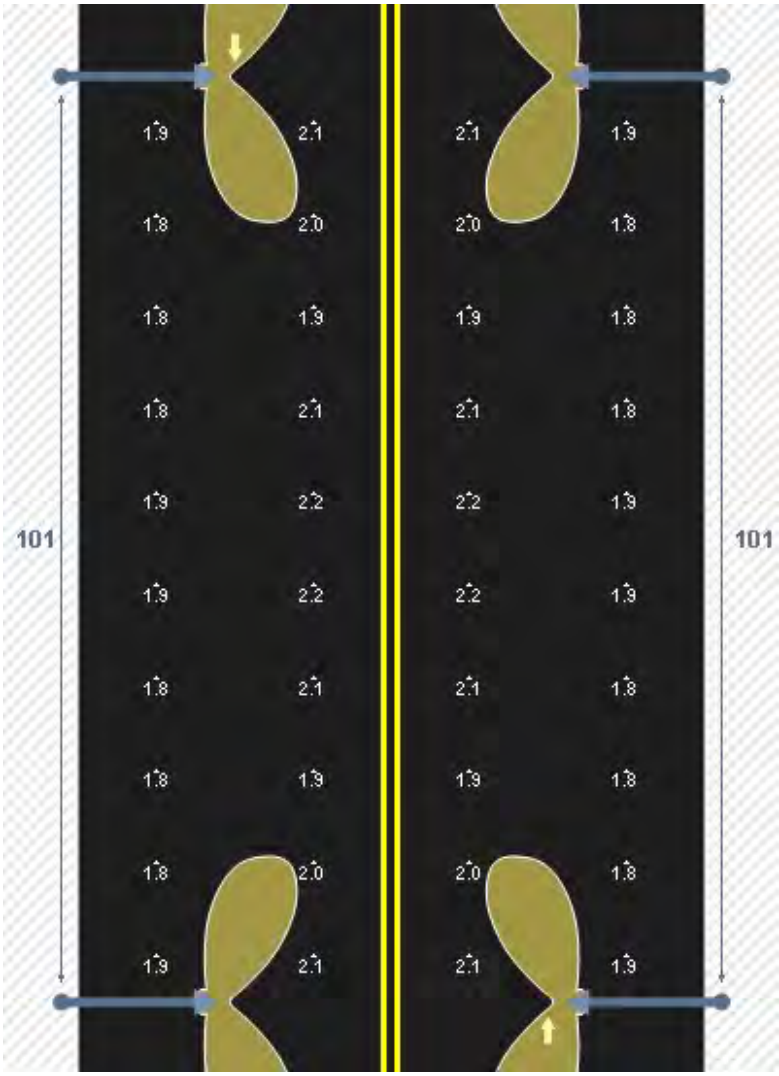

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

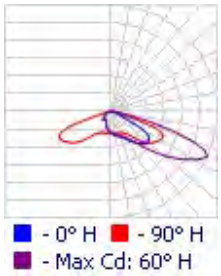
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (23 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	44.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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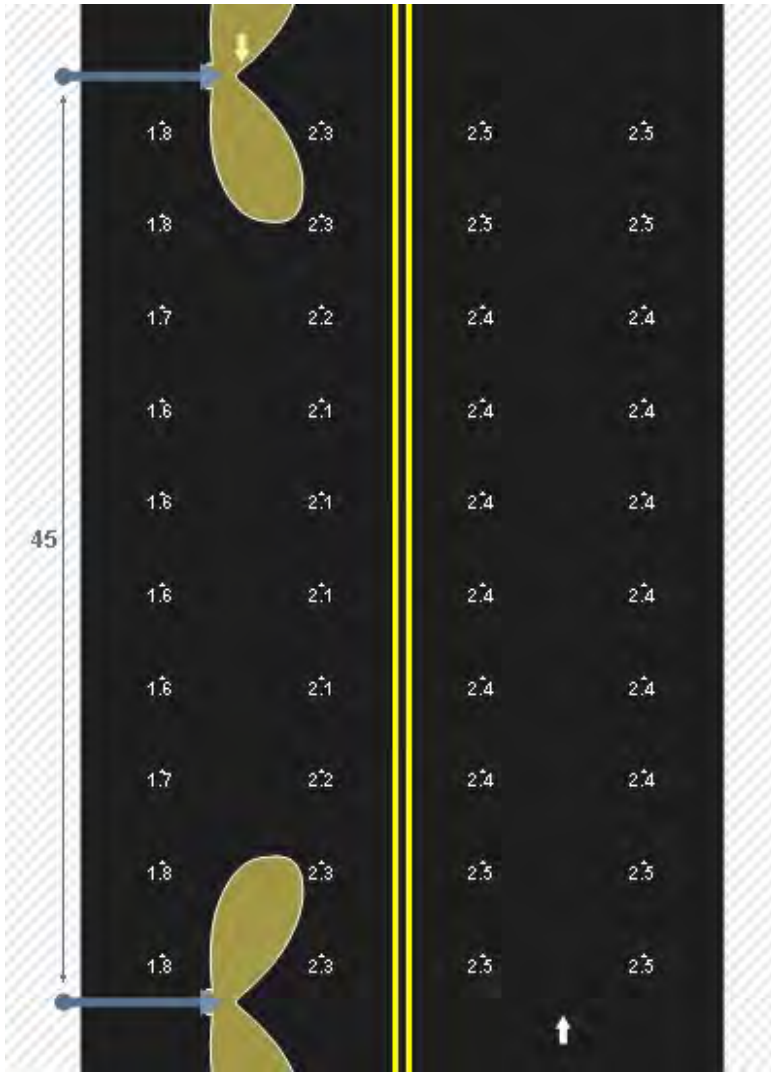

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.9	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.5	1.7	cd/m²
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.5	1.4	

Illuminance	Left	Right	
Average:	2	2.4	fc
Max:	2.4	2.5	fc
Min	1.6	2.4	fc
Ave/Min:	1.2	1	
Max/Min:	1.5	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

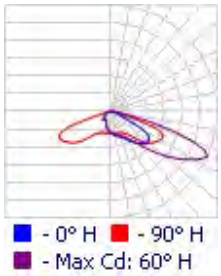
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (21 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

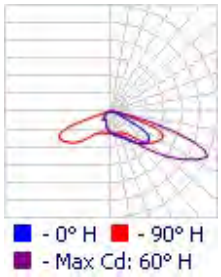
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	96.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	96.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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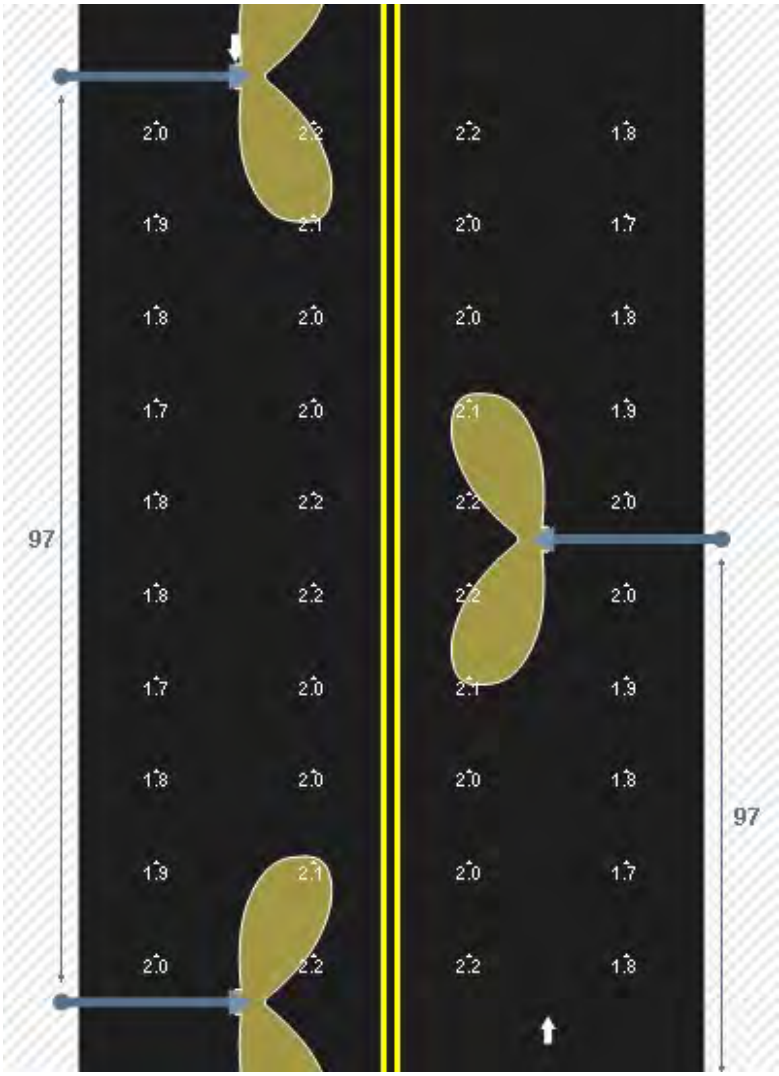

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

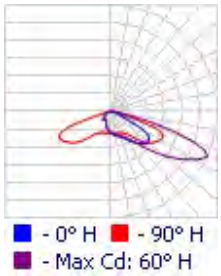
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

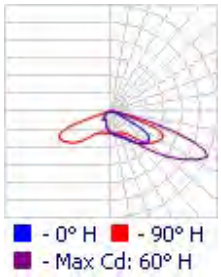
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	97.69 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	97.69 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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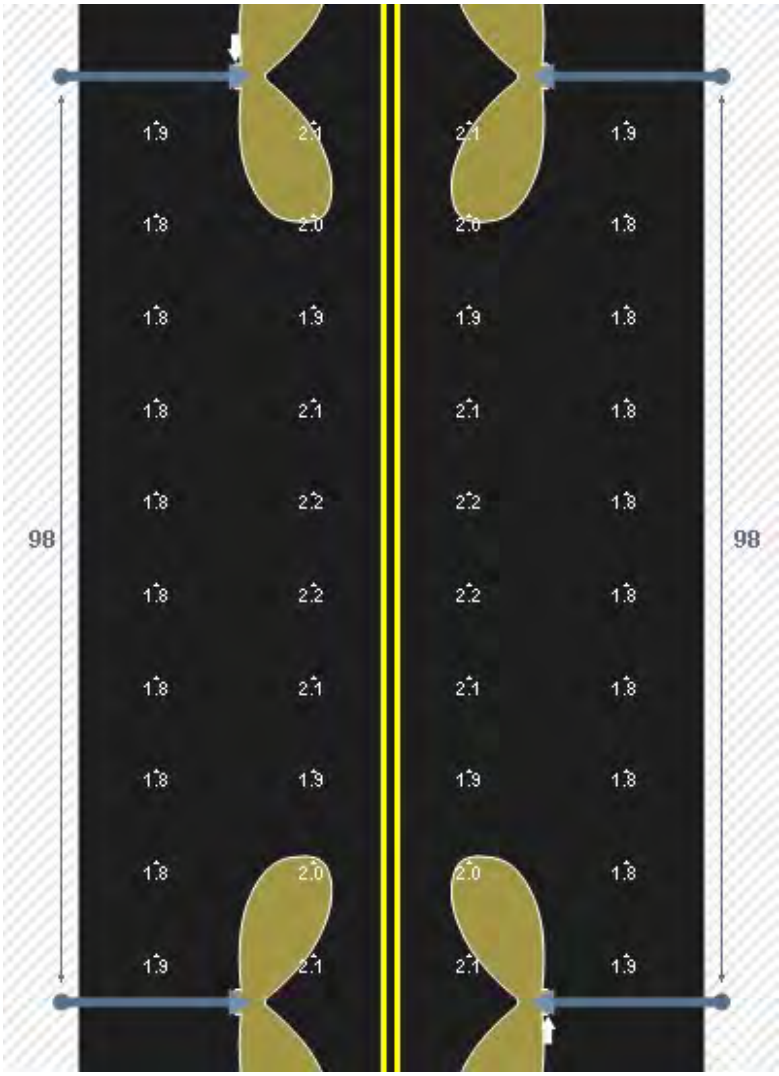

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

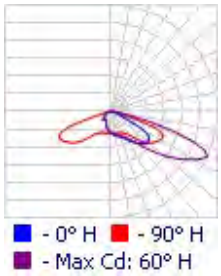
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	41.07 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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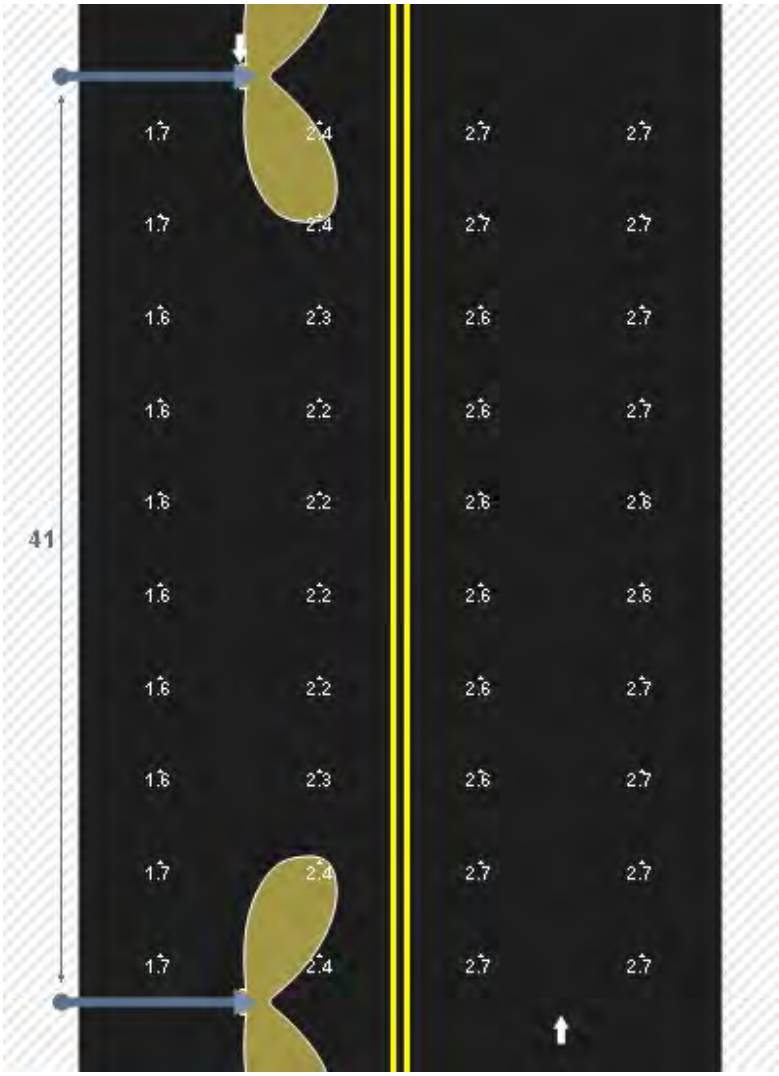

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	2.1	cd/m²
Max:	2.2	2.2	cd/m²
Min	1.5	1.9	cd/m²
Ave/Min:	1.3	1.1	
Max/Min:	1.5	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.5	1.2	

Illuminance	Left	Right	
Average:	2	2.7	fc
Max:	2.4	2.7	fc
Min	1.6	2.6	fc
Ave/Min:	1.2	1	
Max/Min:	1.5	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

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Project Description

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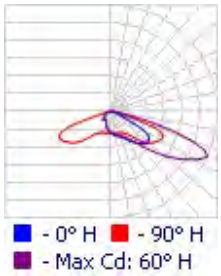
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

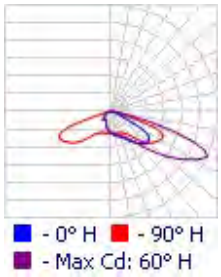
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	94 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	94 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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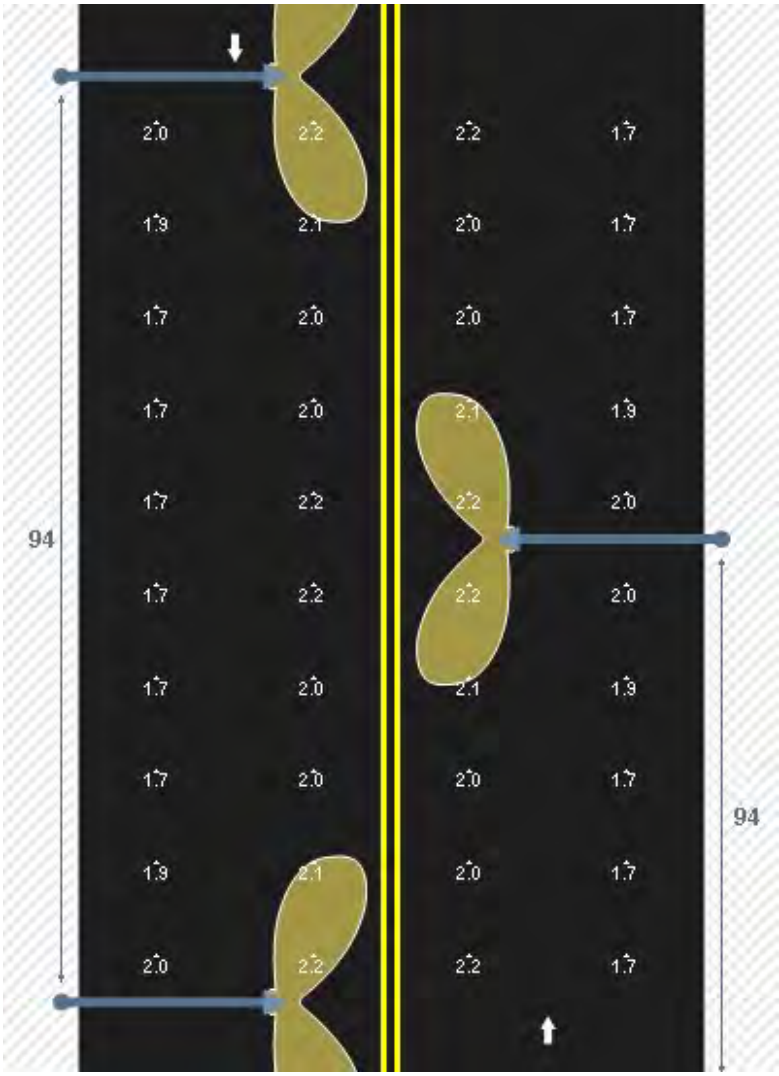
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

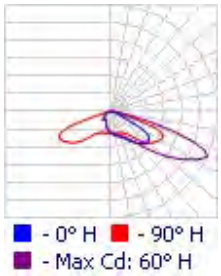
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

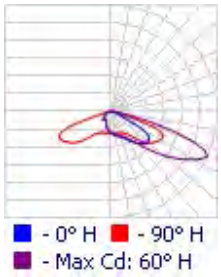
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	94 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	94 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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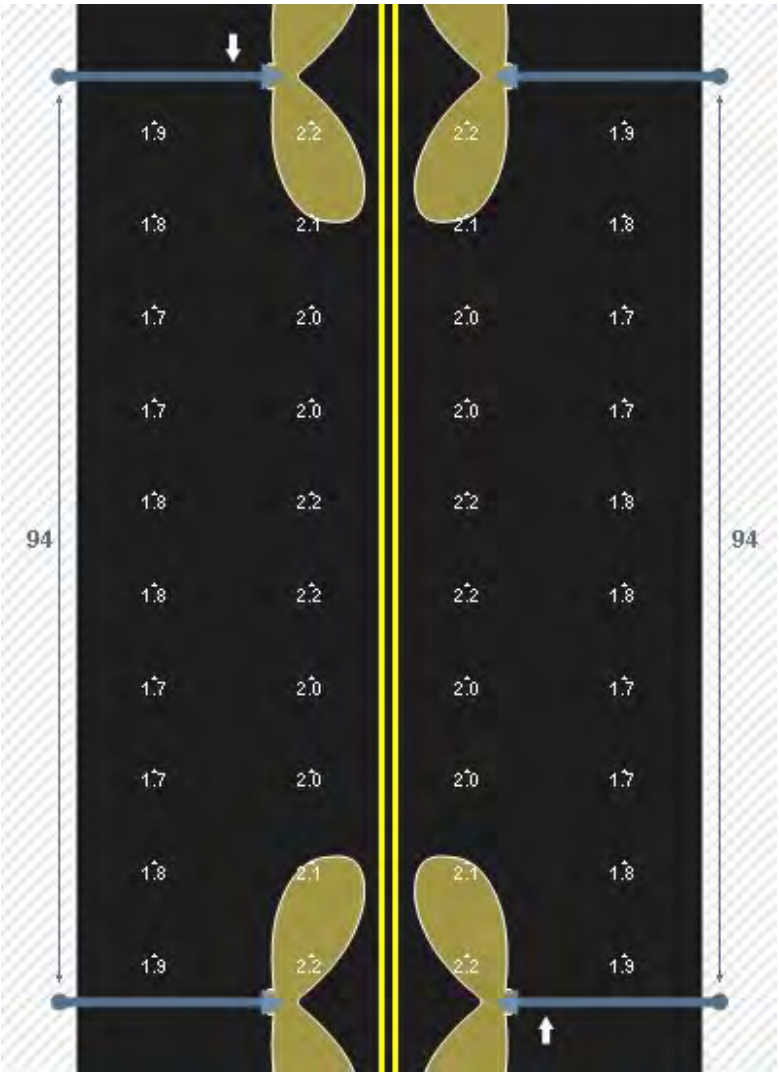

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1	1	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

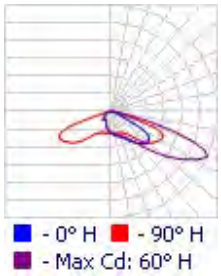
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (27 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	37.81 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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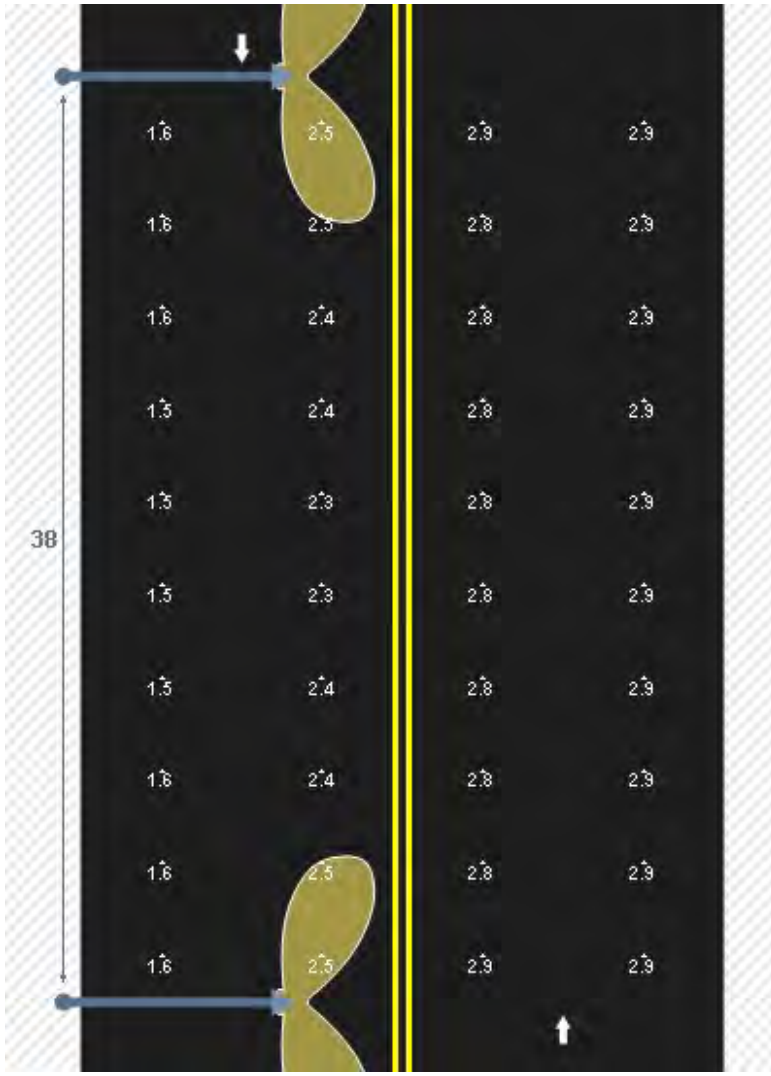

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	2.3	cd/m²
Max:	2.3	2.4	cd/m²
Min	1.3	2.1	cd/m²
Ave/Min:	1.4	1.1	
Max/Min:	1.8	1.1	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.9	

Illuminance	Left	Right	
Average:	2	2.9	fc
Max:	2.5	2.9	fc
Min	1.5	2.8	fc
Ave/Min:	1.3	1	
Max/Min:	1.6	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

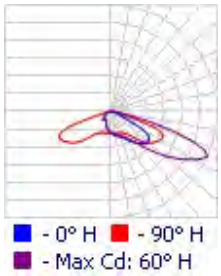
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

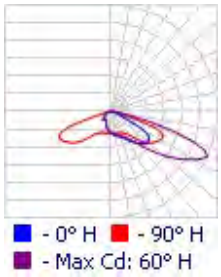
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	86.69 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	86.69 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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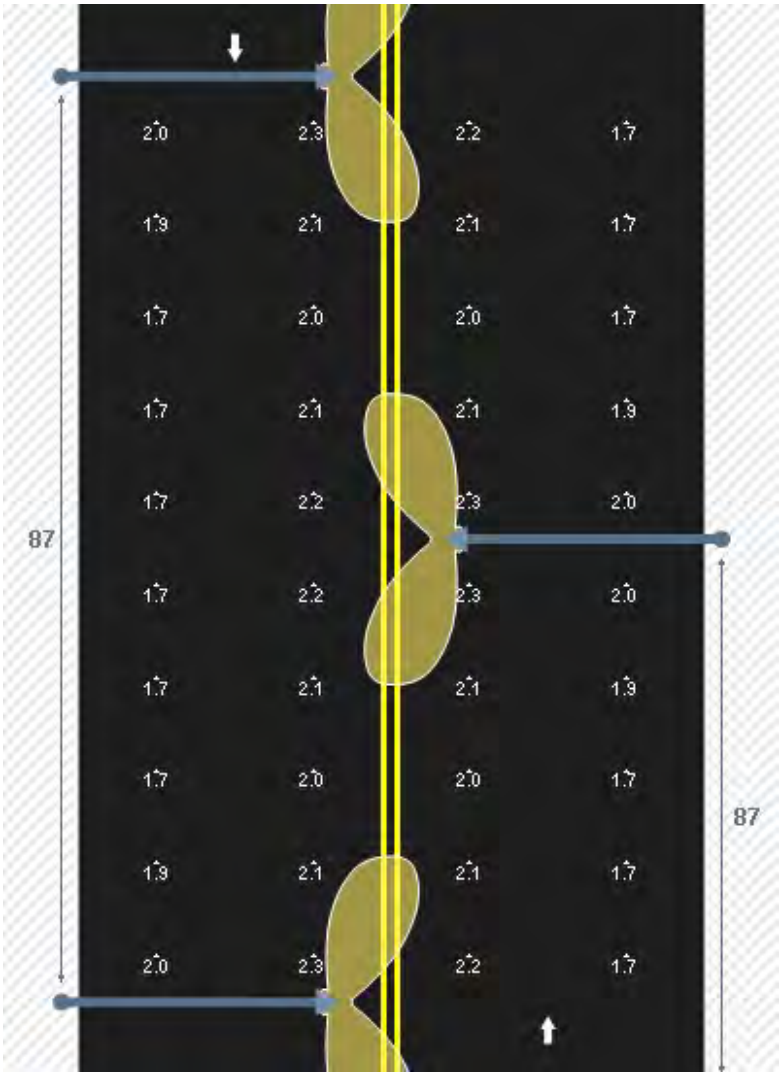

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

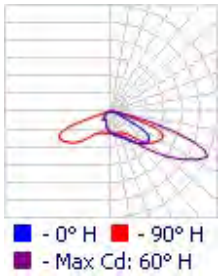
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

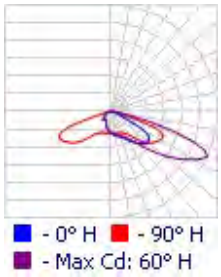
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	87.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	87.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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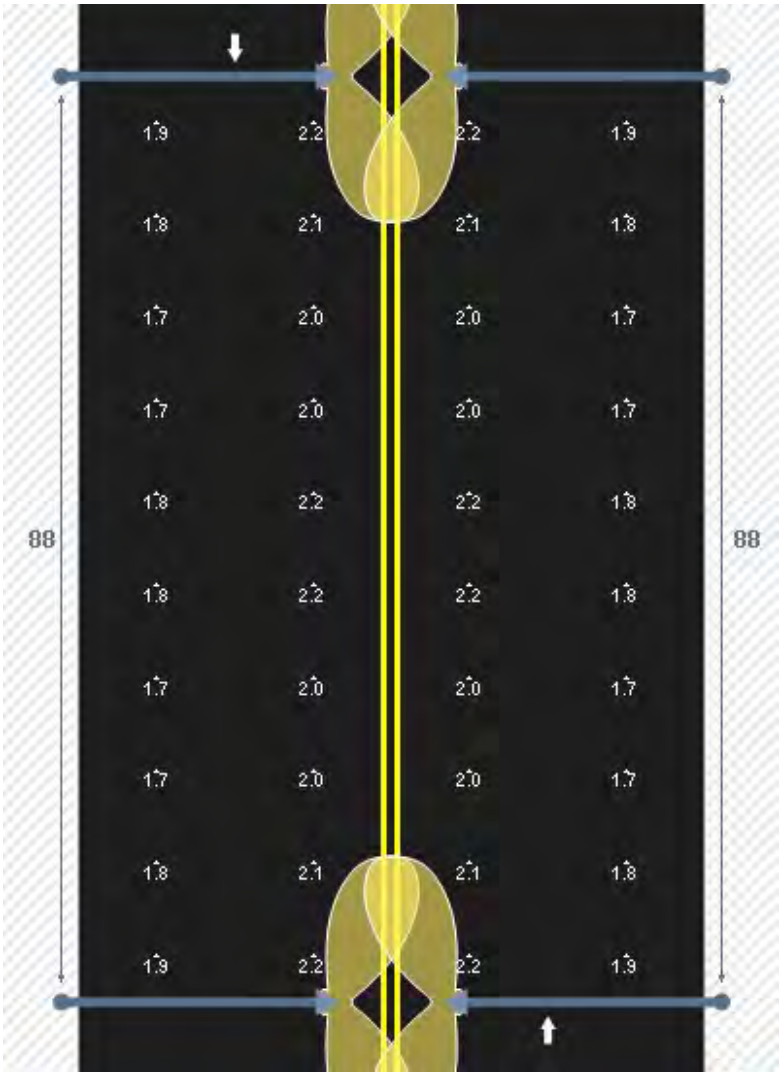

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

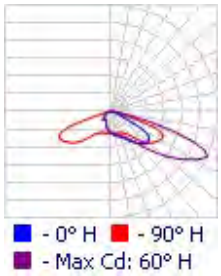
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

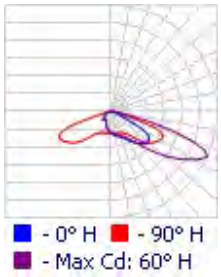
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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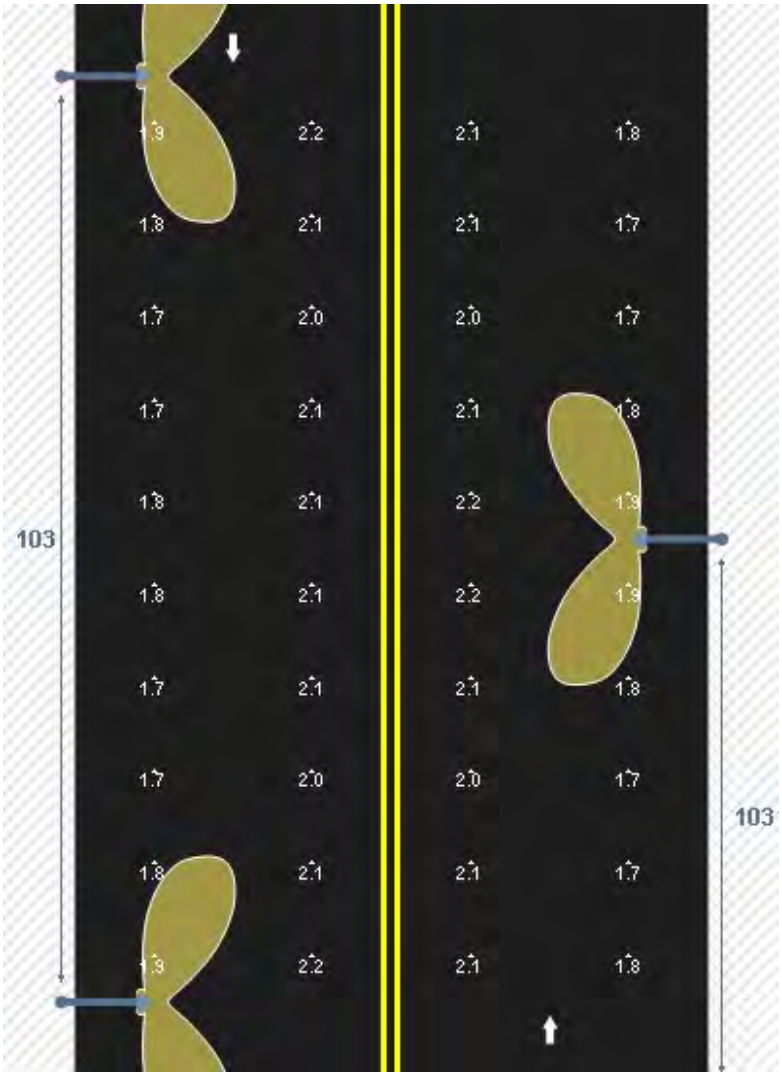

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.5	1.5	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

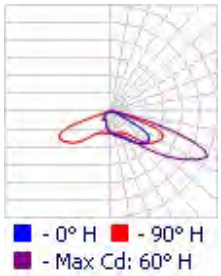
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

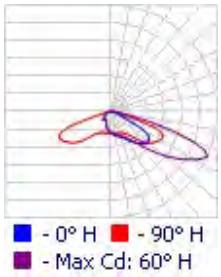
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	102.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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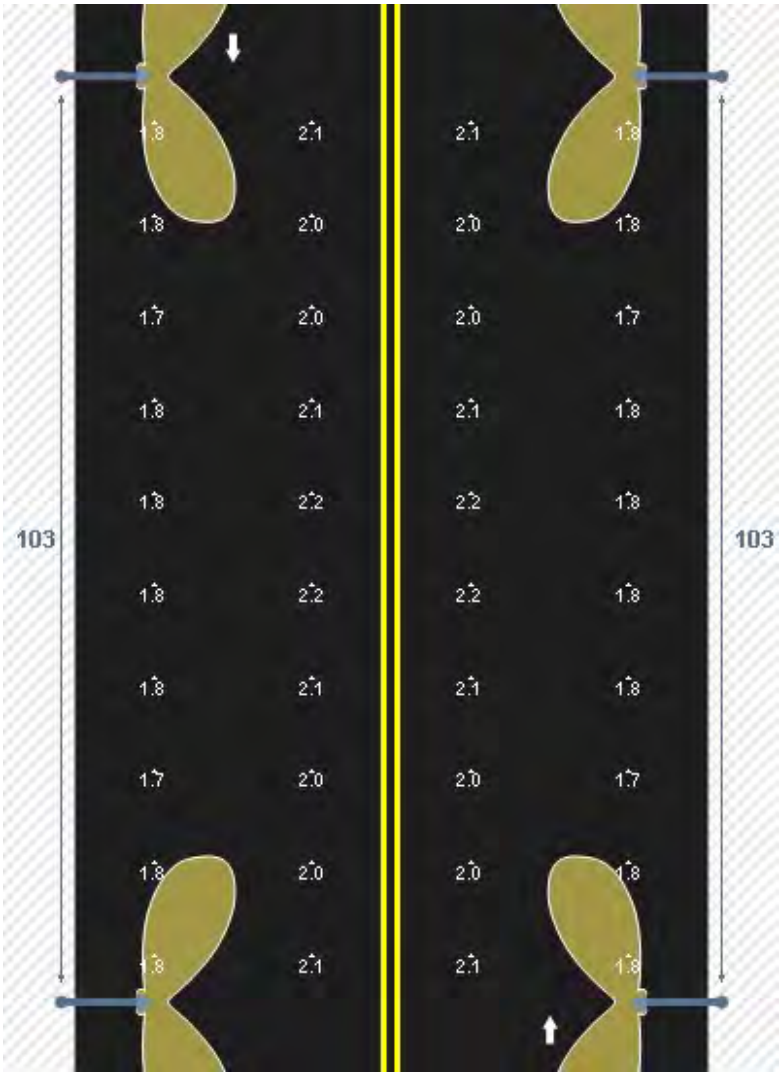

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.5	1.5	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

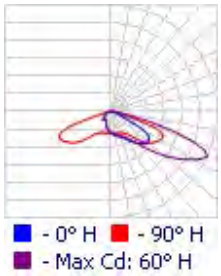
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	50.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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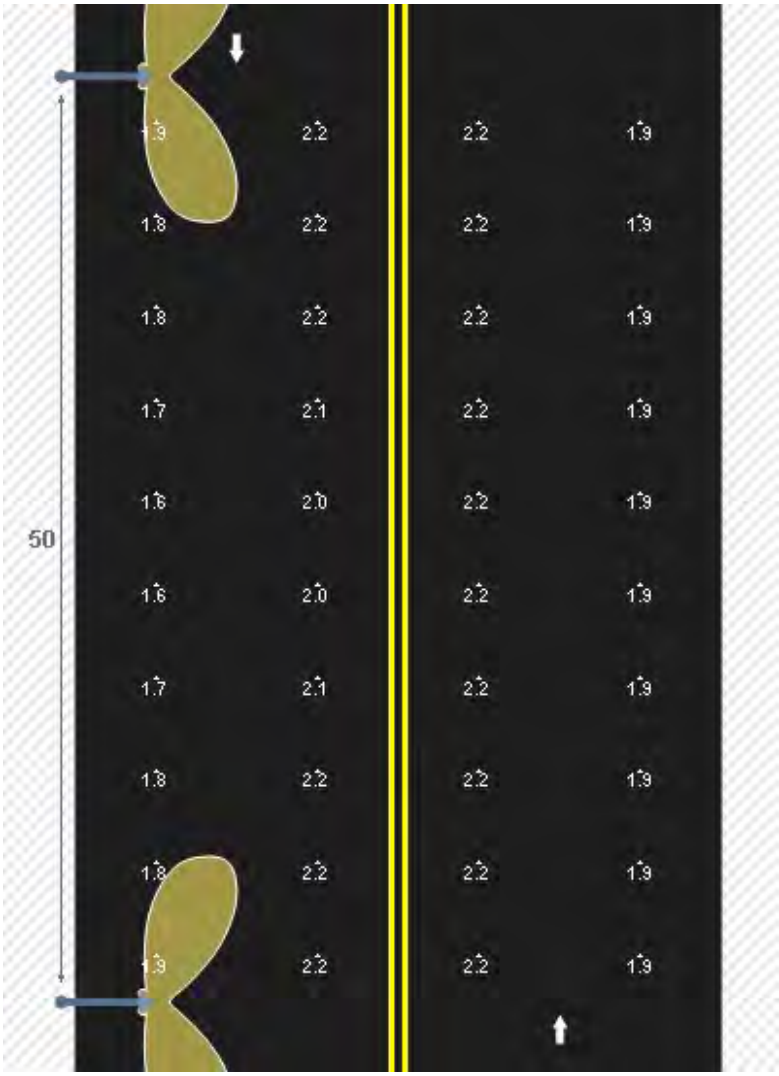

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.4	cd/m²
Max:	1.9	1.6	cd/m²
Min	1.6	1.2	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.2	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	2.3	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.6	1.9	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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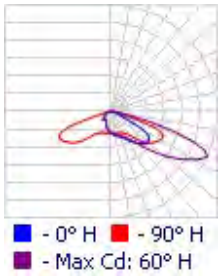
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

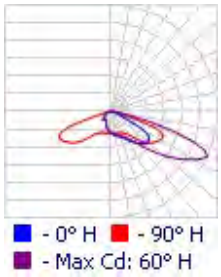
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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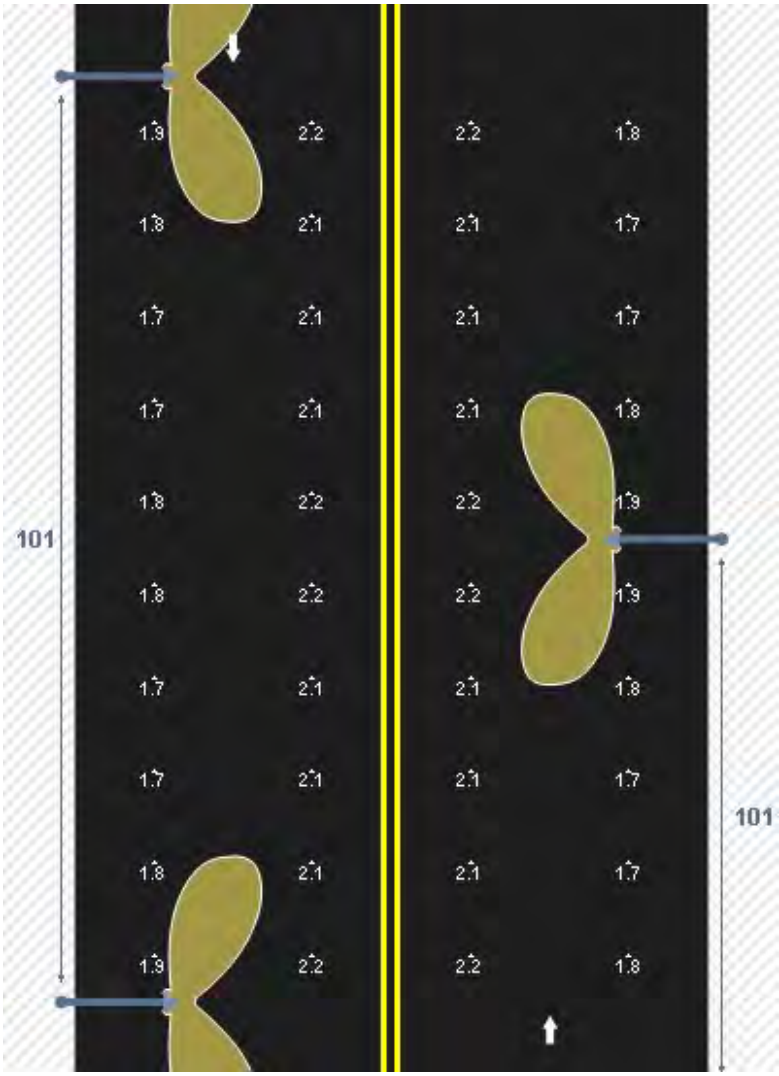

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1	1	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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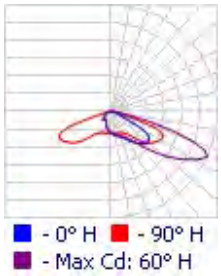
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

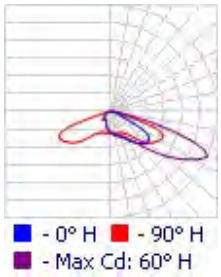
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	100.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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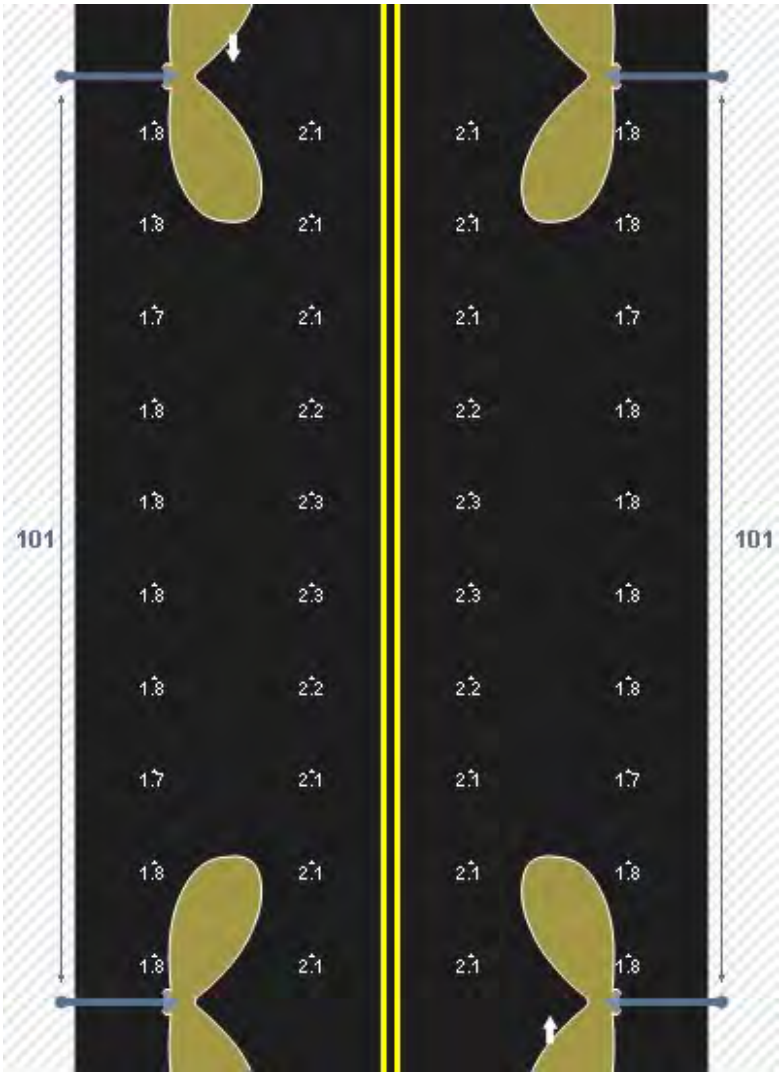

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

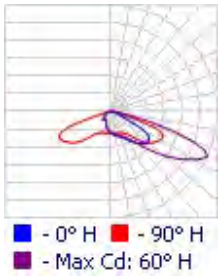
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	47.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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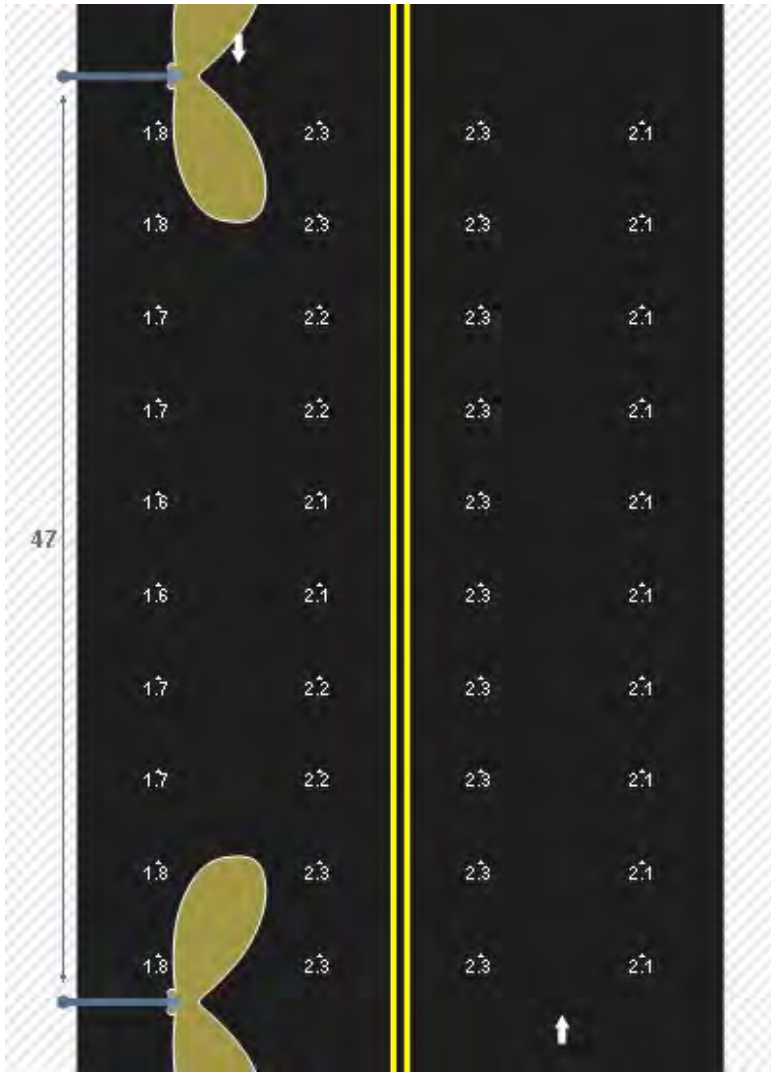

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.5	cd/m²
Max:	2	1.8	cd/m²
Min	1.6	1.3	cd/m²
Ave/Min:	1.1	1.2	
Max/Min:	1.3	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.5	2.2	

Illuminance	Left	Right	
Average:	2	2.2	fc
Max:	2.3	2.3	fc
Min	1.6	2.1	fc
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

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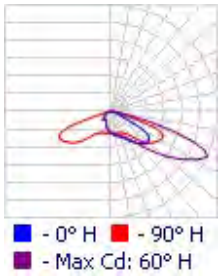
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (21 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

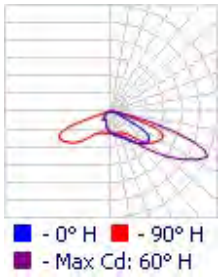
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	99.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	99.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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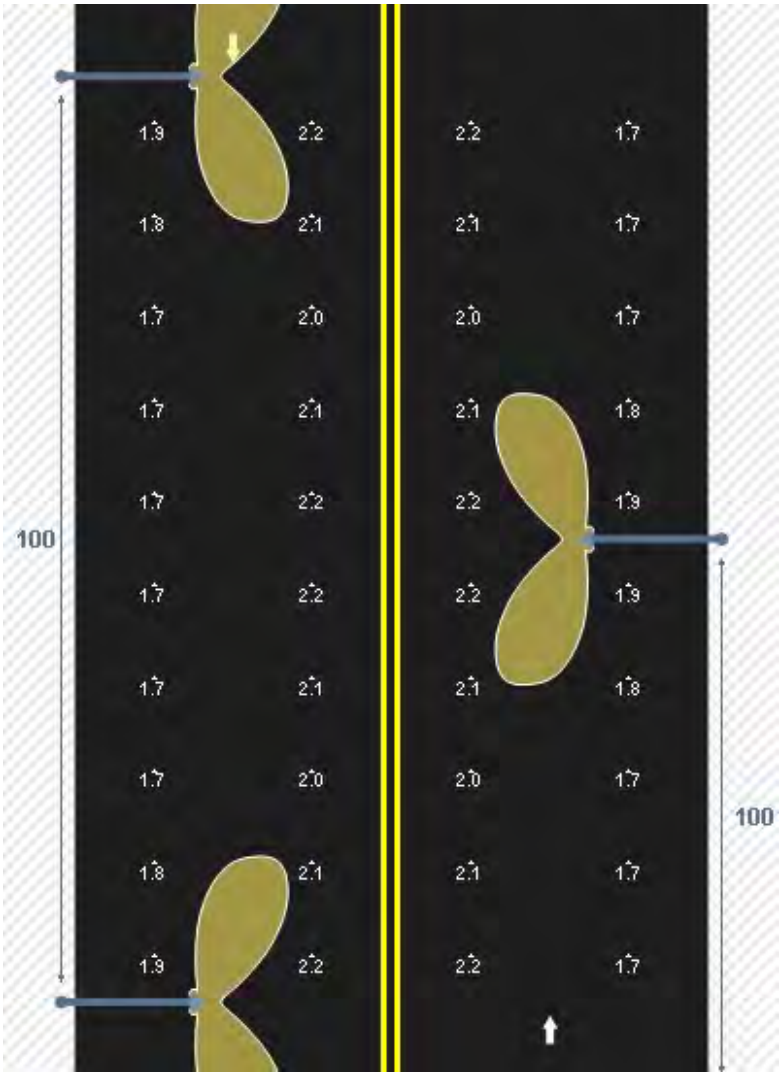

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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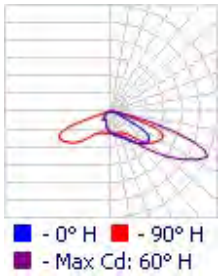
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

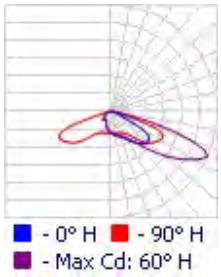
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	98.94 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	98.94 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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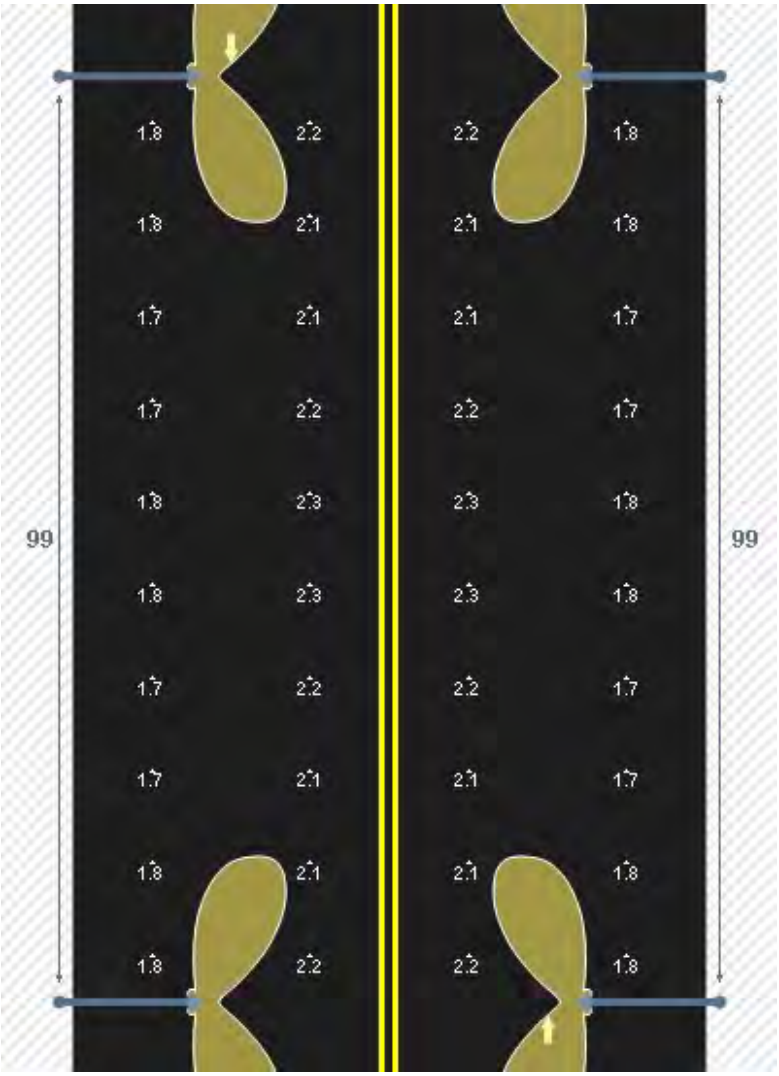

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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User Name
Company Name
Your Phone
Your Email

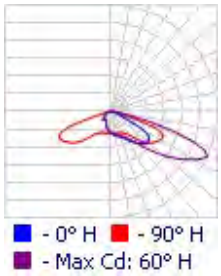
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (23 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	44.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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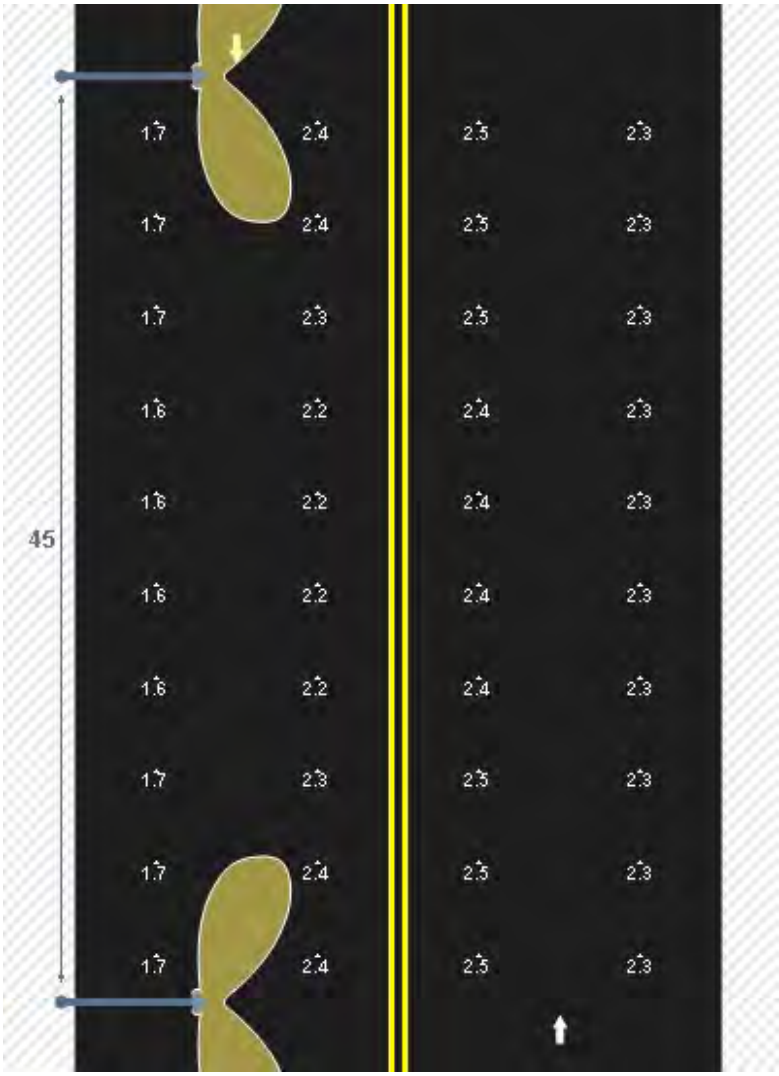

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.7	cd/m²
Max:	2.1	2	cd/m²
Min	1.5	1.5	cd/m²
Ave/Min:	1.2	1.1	
Max/Min:	1.4	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.4	2.1	

Illuminance	Left	Right	
Average:	2	2.4	fc
Max:	2.4	2.5	fc
Min	1.6	2.3	fc
Ave/Min:	1.3	1	
Max/Min:	1.5	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

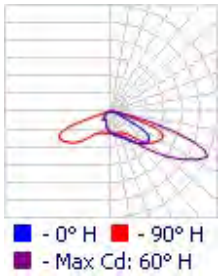
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (21 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

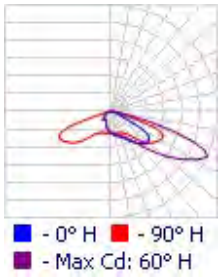
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	97.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	97.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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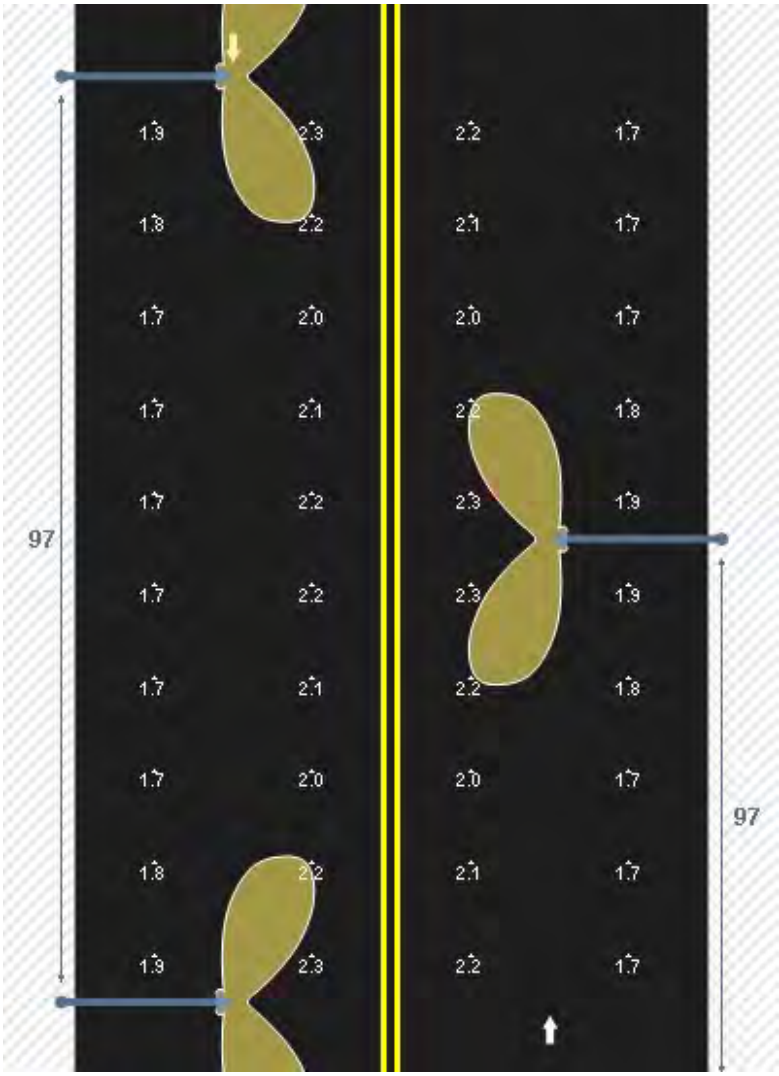

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	2	2	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

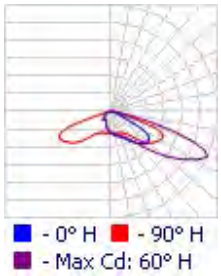
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

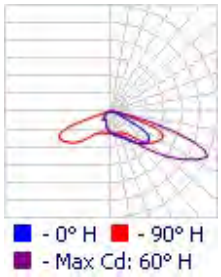
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	96.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	96.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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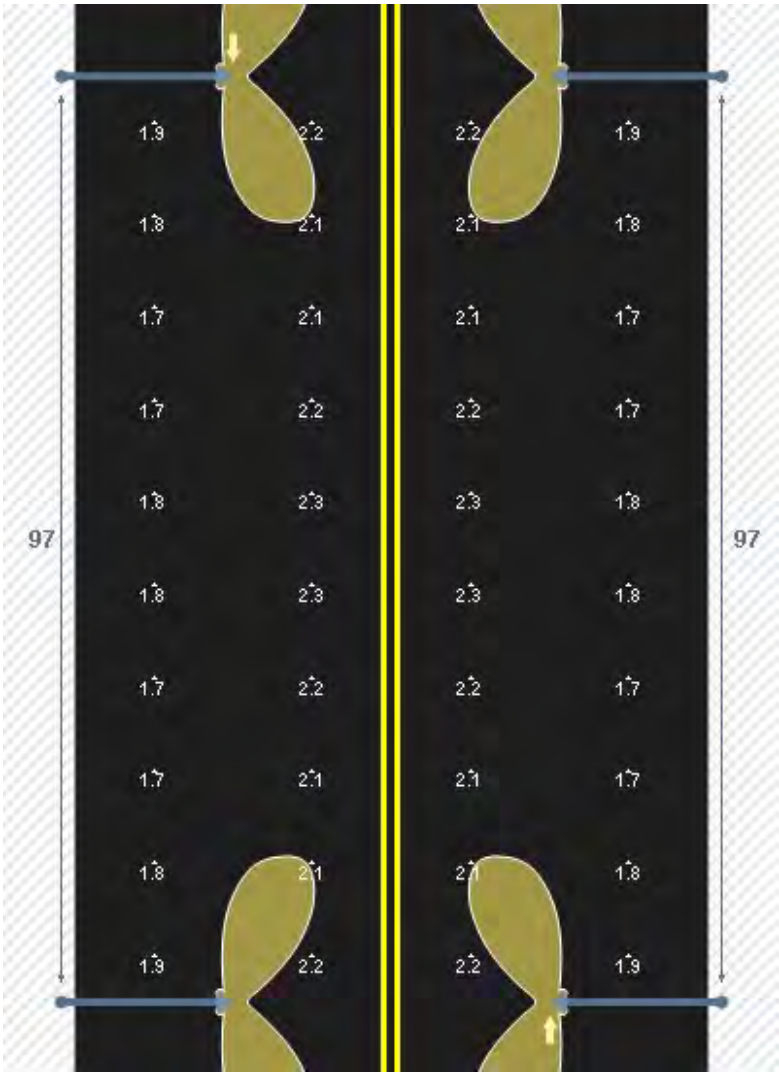

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	2	2	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

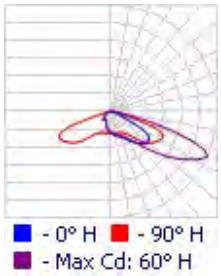
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	42.58 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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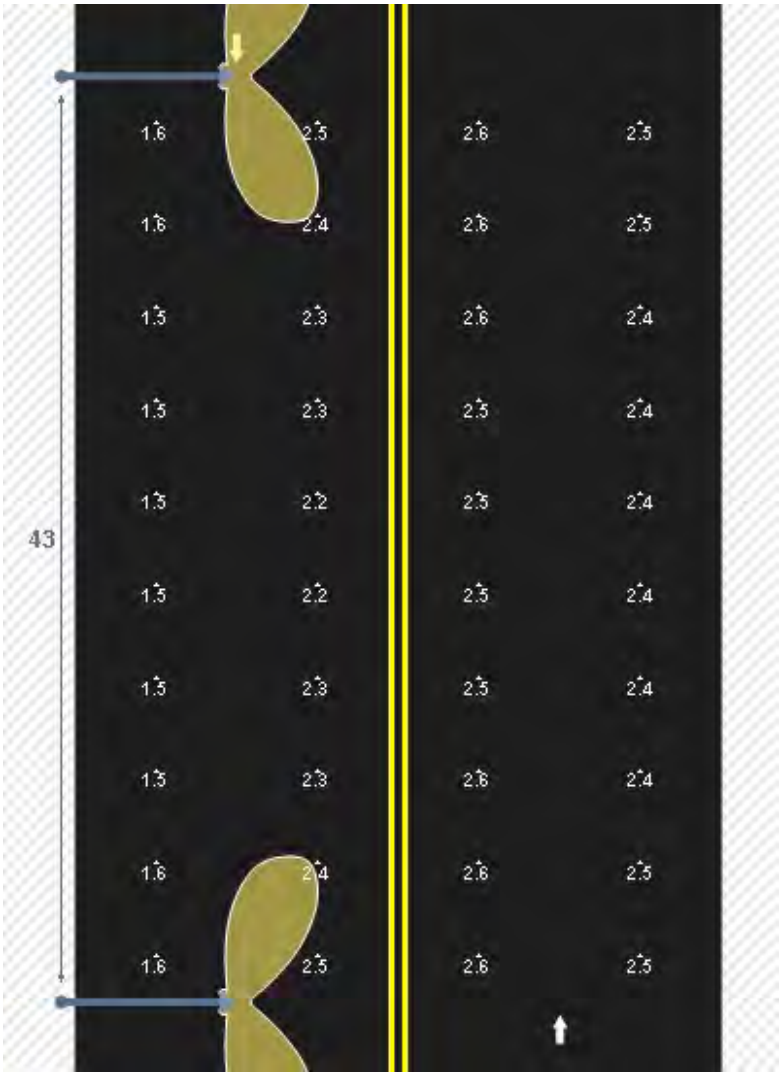

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.8	cd/m²
Max:	2.2	2.1	cd/m²
Min	1.4	1.6	cd/m²
Ave/Min:	1.3	1.1	
Max/Min:	1.6	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.4	1.9	

Illuminance	Left	Right	
Average:	2	2.5	fc
Max:	2.5	2.6	fc
Min	1.5	2.4	fc
Ave/Min:	1.3	1	
Max/Min:	1.7	1.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

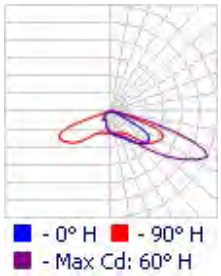
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

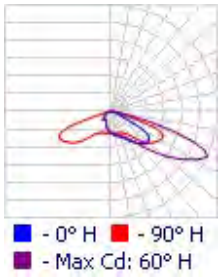
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	92.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	92.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	True	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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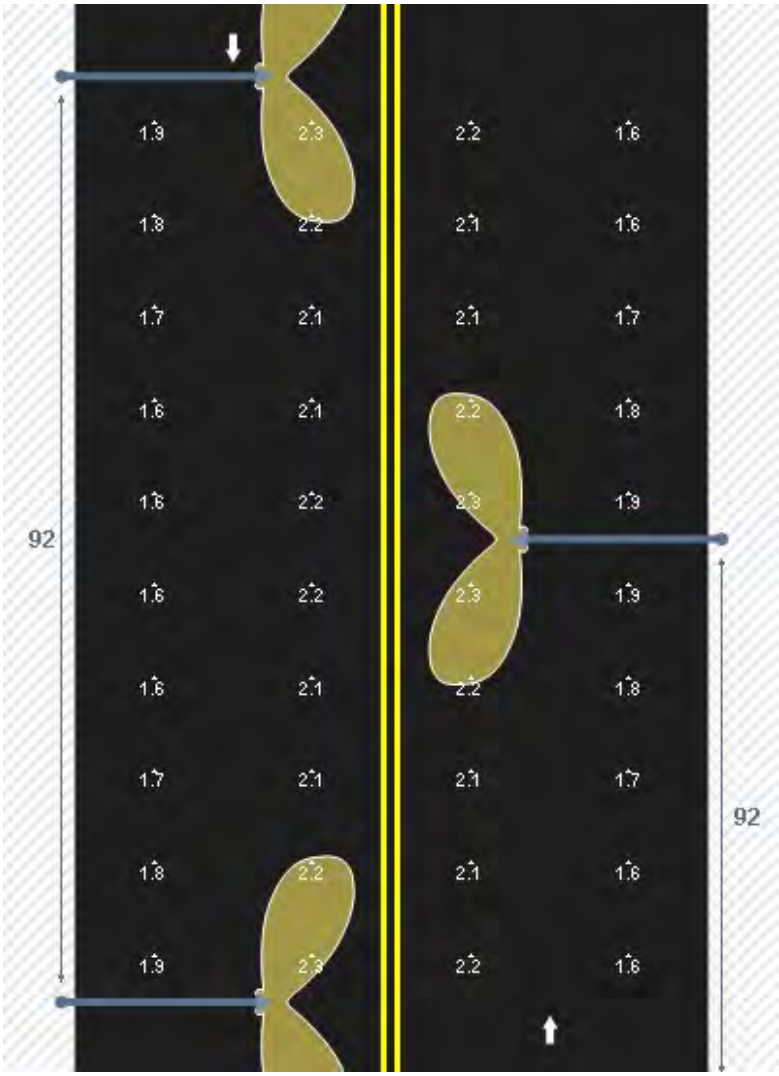

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	2	2	cd/m²
Min	1.2	1.2	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.6	1.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

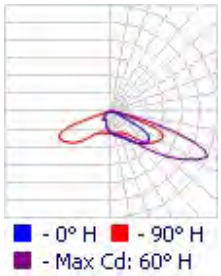
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

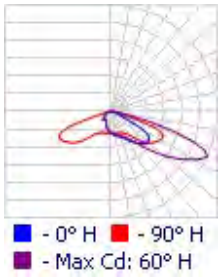
Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	92.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	92.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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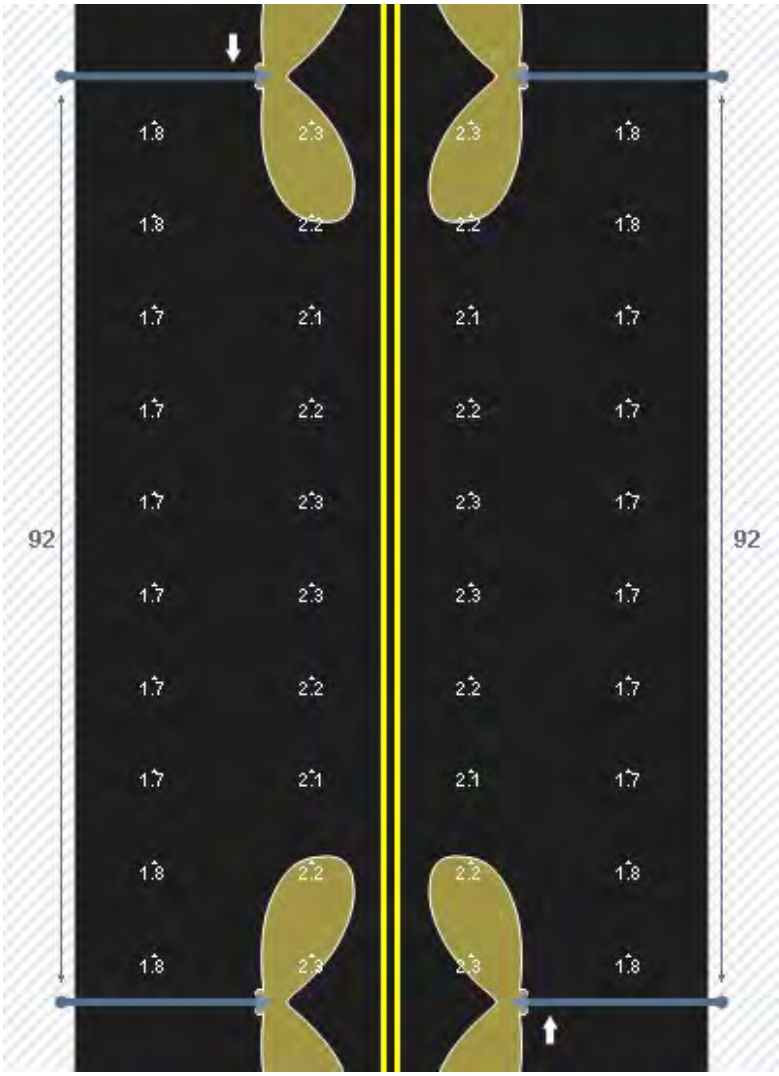

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.2	1.2	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

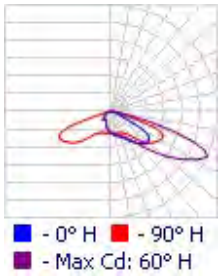
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (27 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P203 R3 3K

Cycle Spacing:	37.81 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	9471
Staggered:	False	Wattage:	70
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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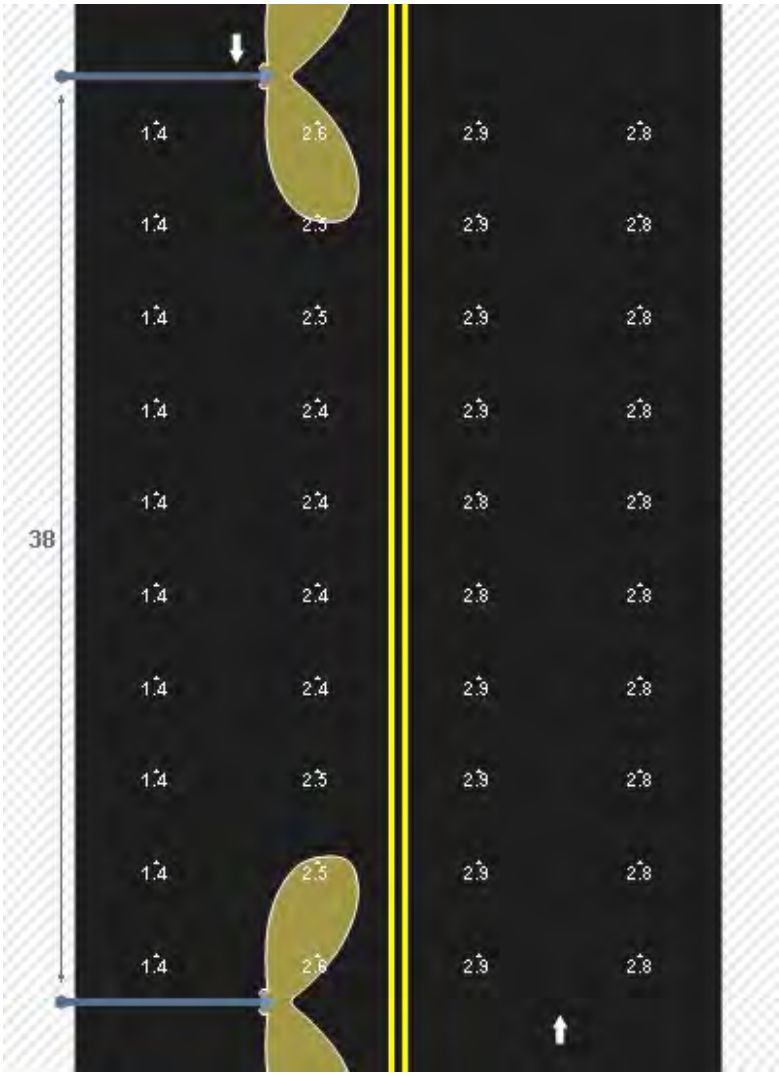

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	2.1	cd/m²
Max:	2.4	2.4	cd/m²
Min	1.2	1.9	cd/m²
Ave/Min:	1.5	1.1	
Max/Min:	2.1	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.5	1.7	

Illuminance	Left	Right	
Average:	2	2.9	fc
Max:	2.6	2.9	fc
Min	1.4	2.8	fc
Ave/Min:	1.4	1	
Max/Min:	1.9	1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

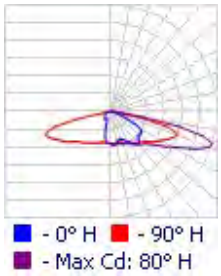
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

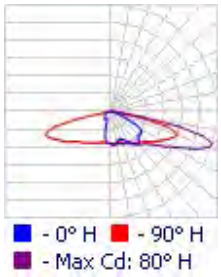
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	339.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	339.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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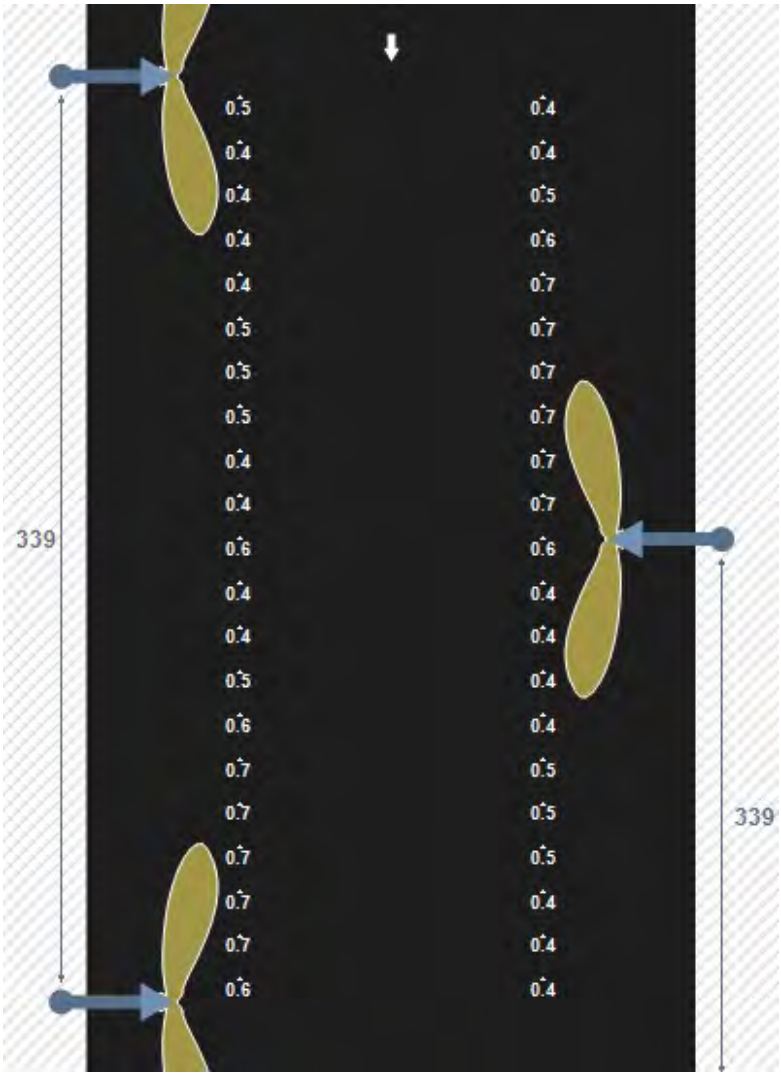

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.7	--	cd/m²	Max:	1.3	--	fc	Min	--	--	fc
Min	0.4	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.4	--		Ave/Min:	2.1	--		Ev Min:	--	--	fc
Max/Min:	1.9	--		Max/Min:	5.1	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	2.2	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

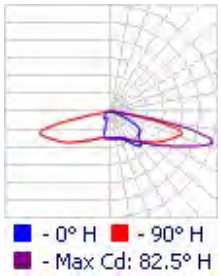
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

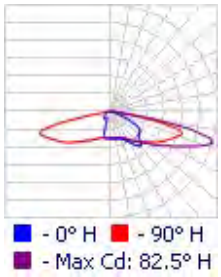
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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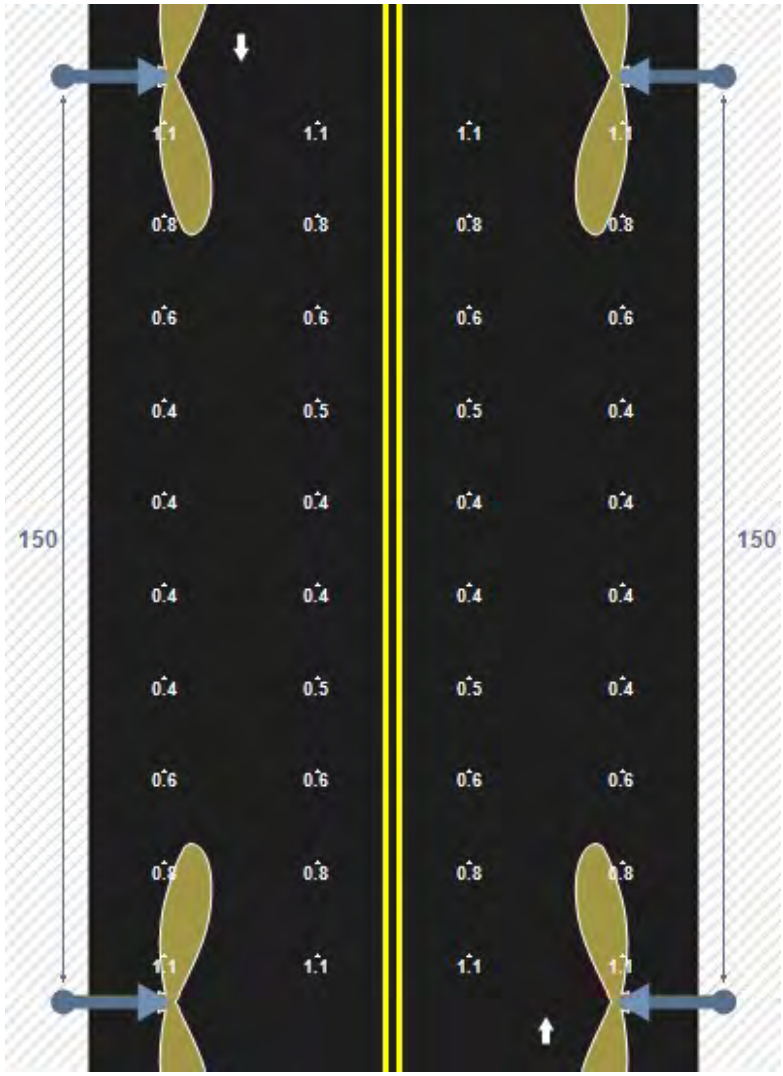

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.1	1.1	fc
Min	0.4	0.4	fc
Ave/Min:	1.8	1.8	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Sunday, May 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

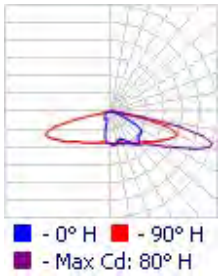
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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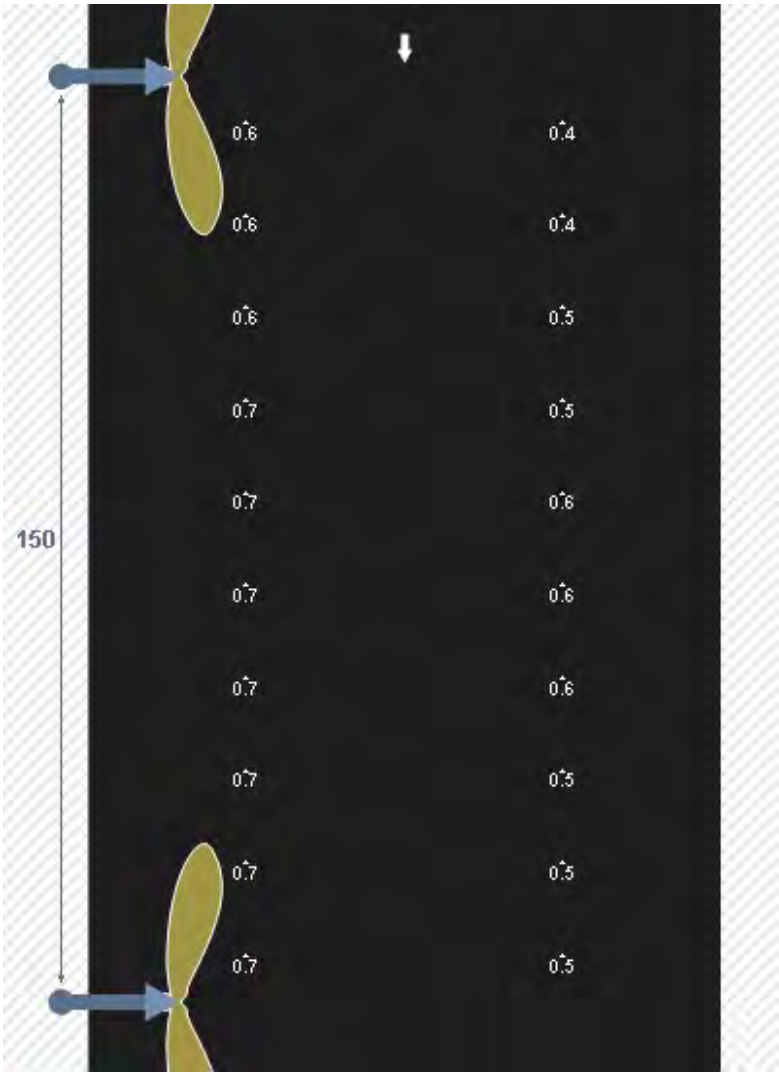

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.3	--	fc
Ave/Min:	1.9	--	
Max/Min:	3.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

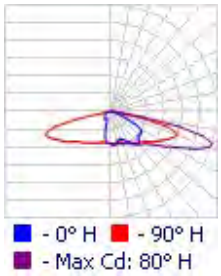
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

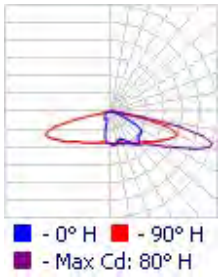
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	300 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	300 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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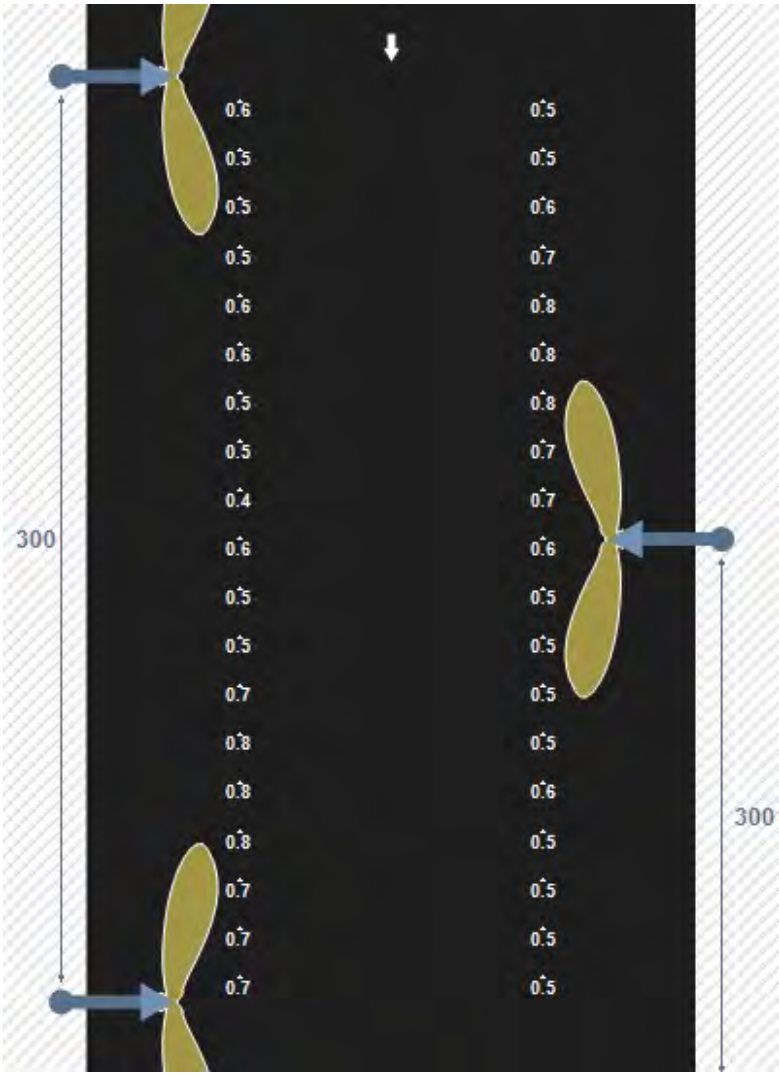

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.4	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

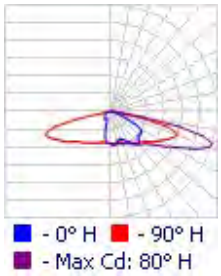
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

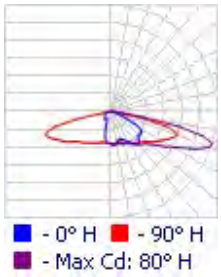
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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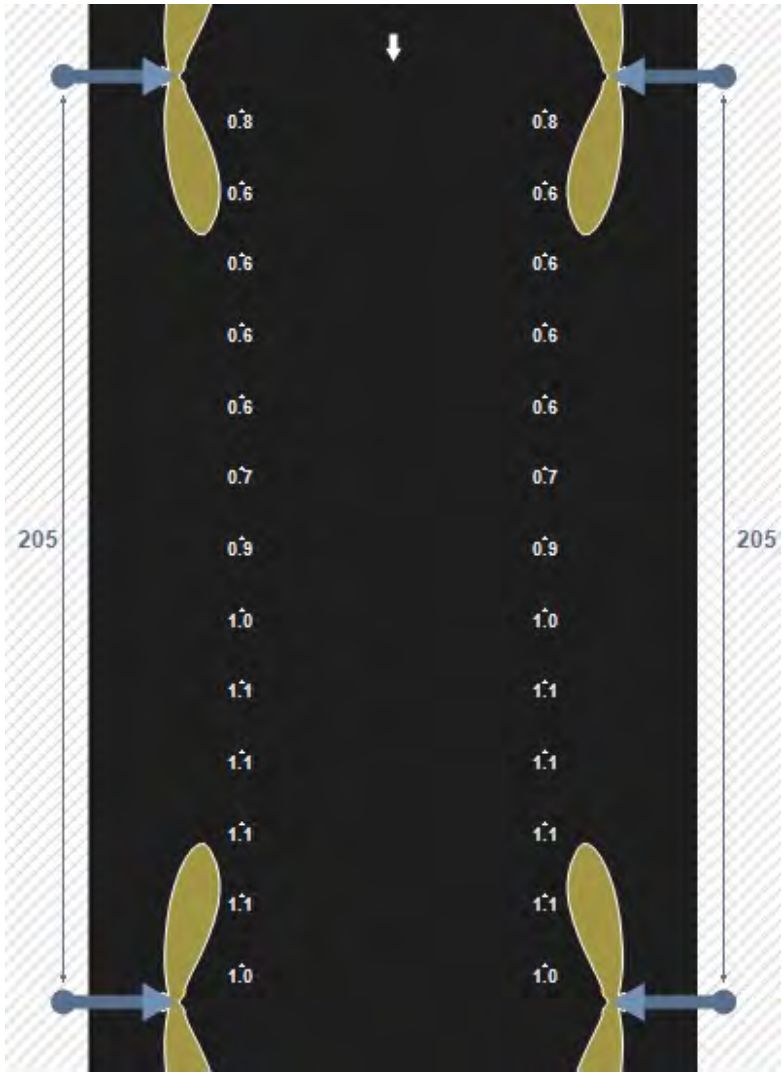
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.9	--	cd/m²	Average:	0.9	--	fc	Average:	--	--	fc
Max:	1.1	--	cd/m²	Max:	2	--	fc	Min	--	--	fc
Min	0.6	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	3	--		Ev Min:	--	--	fc
Max/Min:	2	--		Max/Min:	6.8	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	3.9	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Sunday, May 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

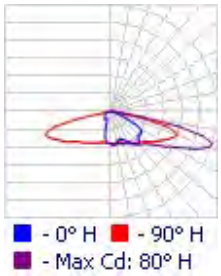
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	169.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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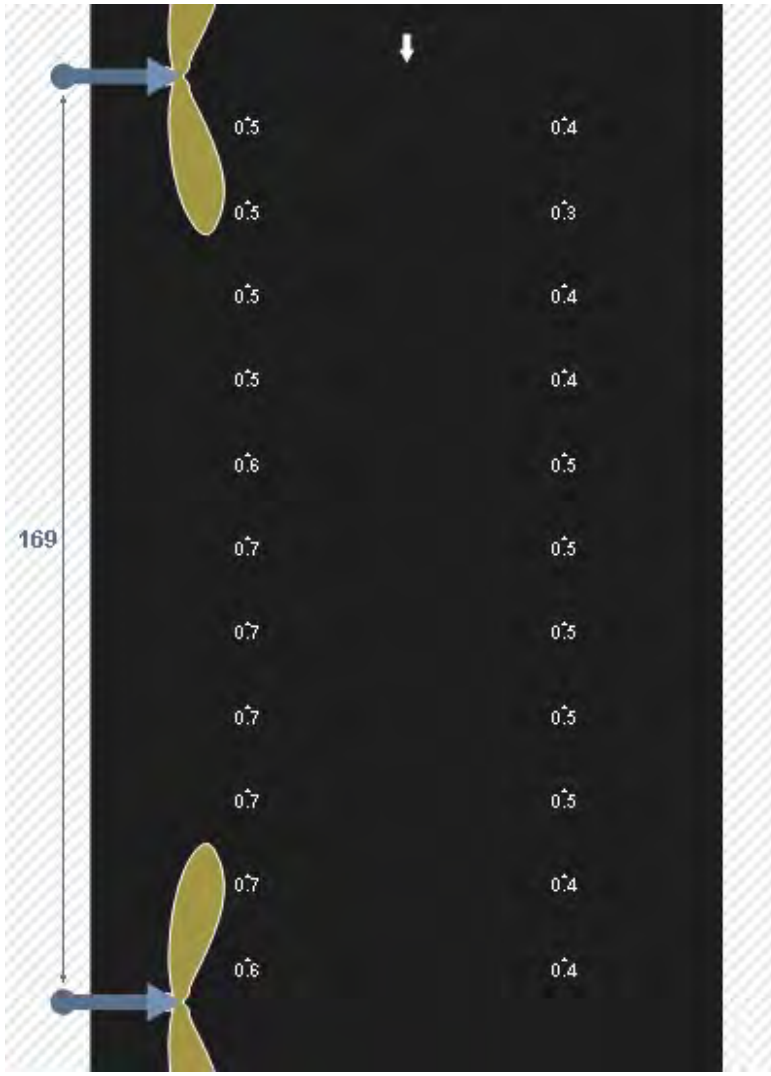

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.2	--	
Lv Ratio:	0.3	--	
STV:	2.2	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

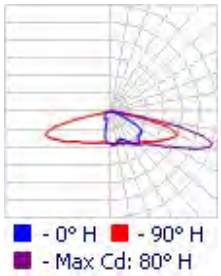
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

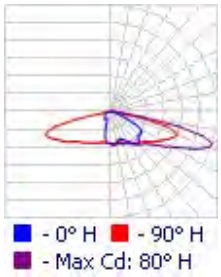
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	338.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	338.98 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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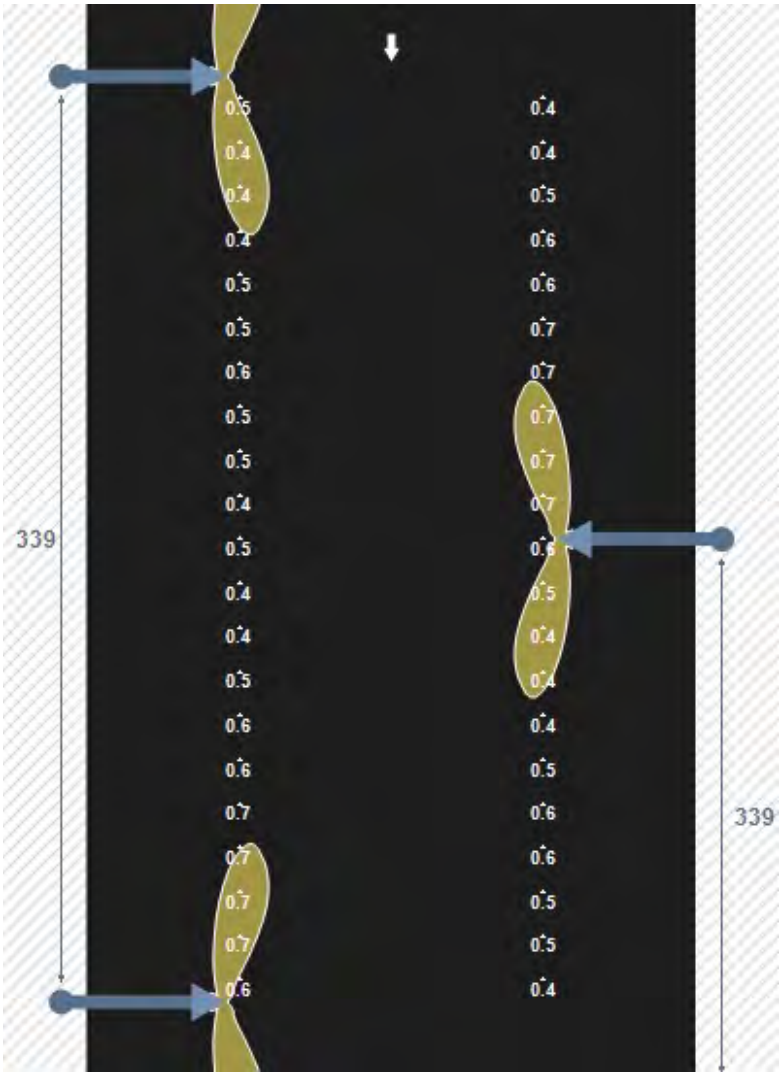

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.3	--	
STV:	2.3	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.3	--	fc
Ave/Min:	2.2	--	
Max/Min:	5.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

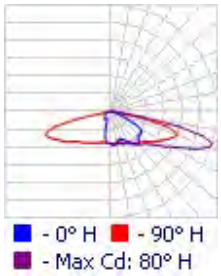
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

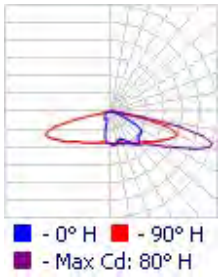
Left Side - American Electric Lighting: ATB0 10BLEDE70 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	2670
Staggered:	False	Wattage:	25
Light Loss Factor:	0.92	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE70 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	2670
Staggered:	False	Wattage:	25
Light Loss Factor:	0.92	Lamp Count:	1



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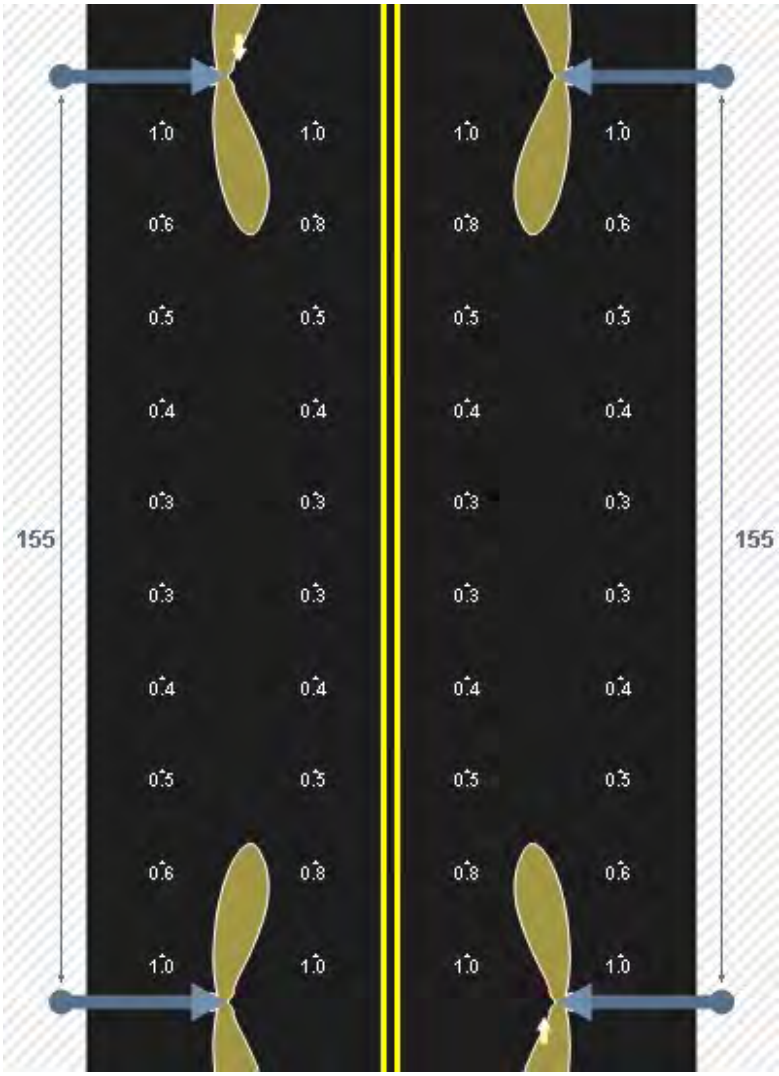

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.7	1.7	
Lv Ratio:	0.3	0.3	
STV:	1.8	1.8	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1	1	fc
Min	0.3	0.3	fc
Ave/Min:	1.9	1.9	
Max/Min:	3.5	3.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Sunday, May 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

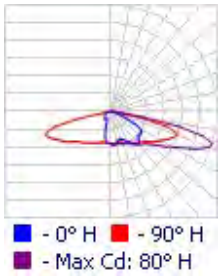
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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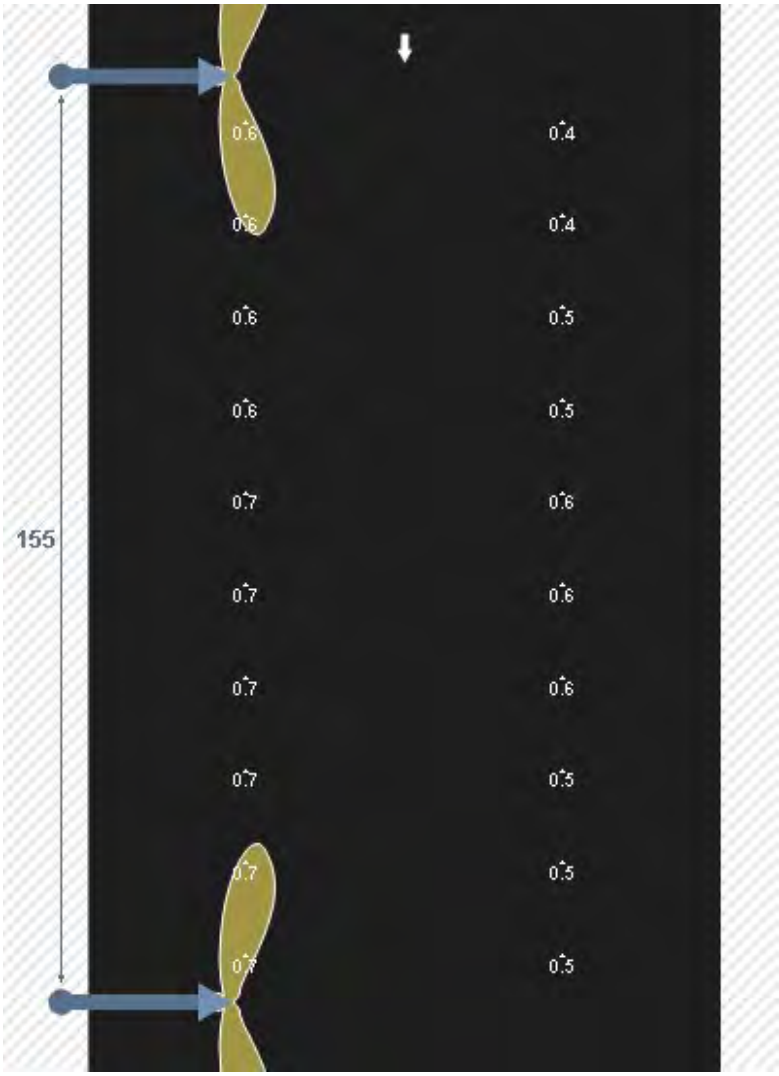

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.3	--	fc
Ave/Min:	2.2	--	
Max/Min:	4.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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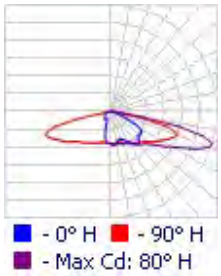
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

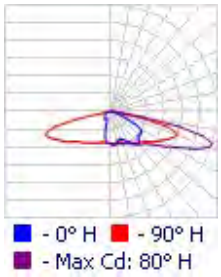
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	310 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	310 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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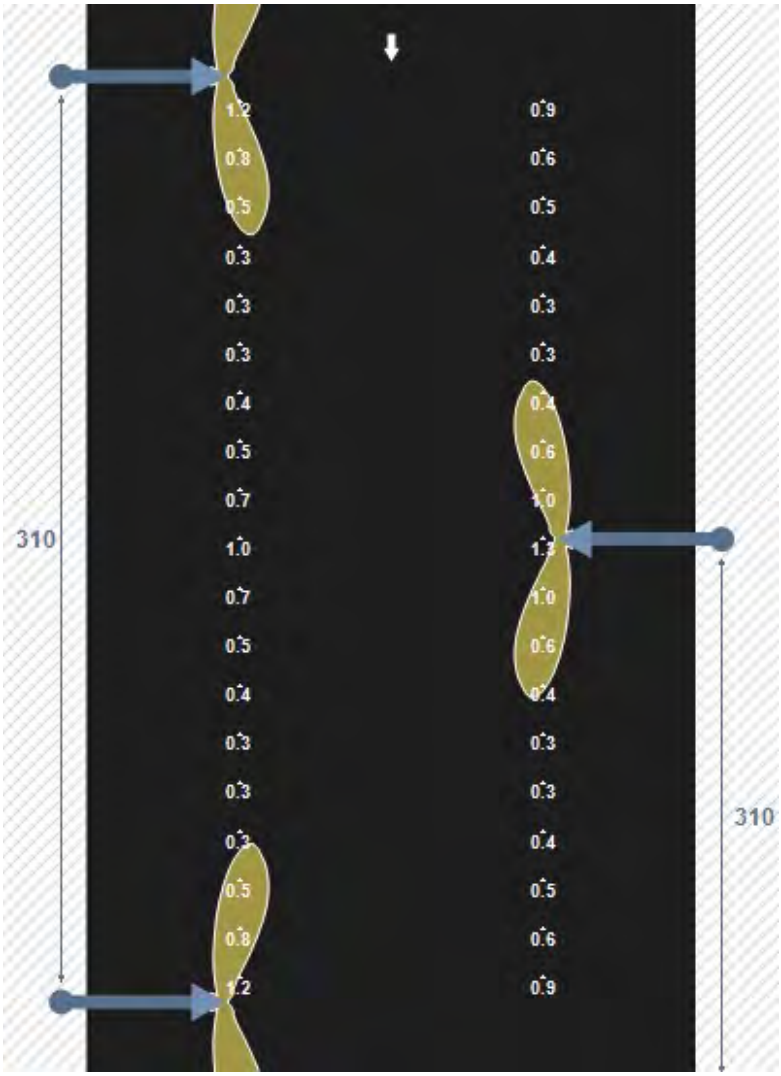

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.3	--	fc
Ave/Min:	1.9	--	
Max/Min:	4.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

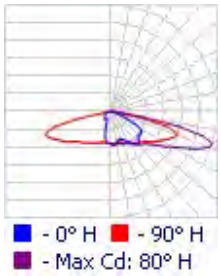
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

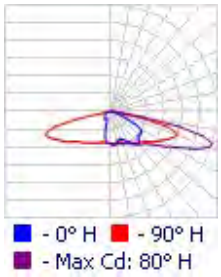
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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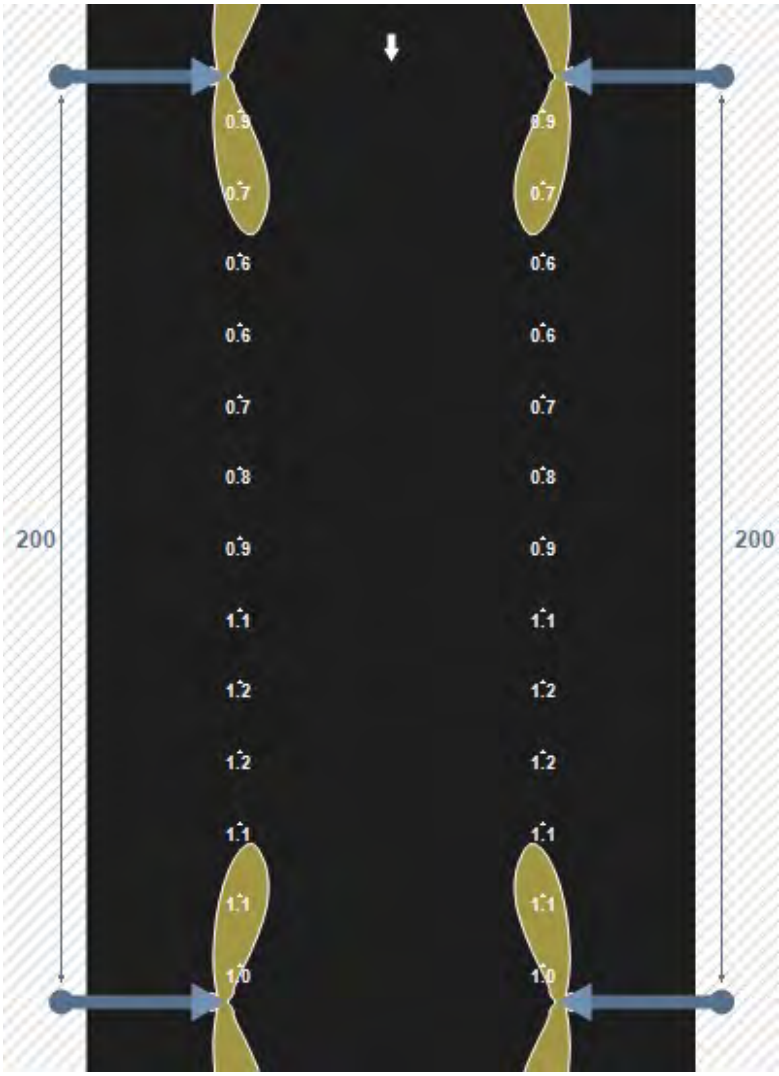

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.9	--	cd/m²	Average:	0.9	--	fc	Average:	--	--	fc
Max:	1.2	--	cd/m²	Max:	2.1	--	fc	Min	--	--	fc
Min	0.6	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	3	--		Ev Min:	--	--	fc
Max/Min:	2	--		Max/Min:	6.6	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	3.8	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Sunday, May 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

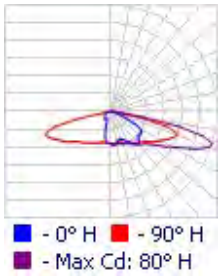
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	169.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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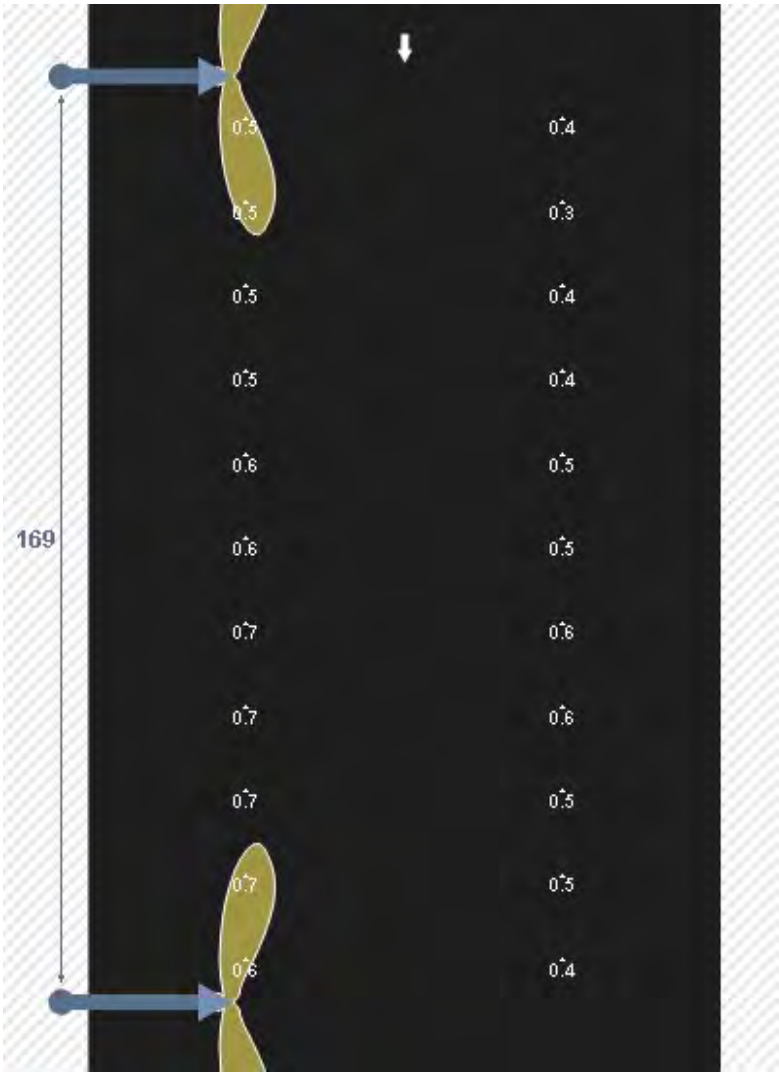

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.7	--	cd/m²	Max:	1.2	--	fc	Min	--	--	fc
Min	0.4	--	cd/m²	Min	0.2	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	2.6	--		Ev Min:	--	--	fc
Max/Min:	2	--		Max/Min:	5.7	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	2.2	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

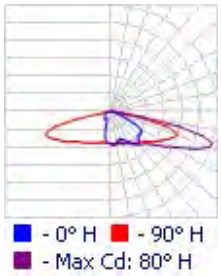
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

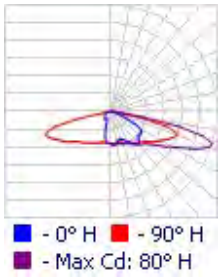
Left Side - American Electric Lighting: ATB0 10BLEDE70 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	2670
Staggered:	False	Wattage:	25
Light Loss Factor:	0.92	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE70 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	2670
Staggered:	False	Wattage:	25
Light Loss Factor:	0.92	Lamp Count:	1



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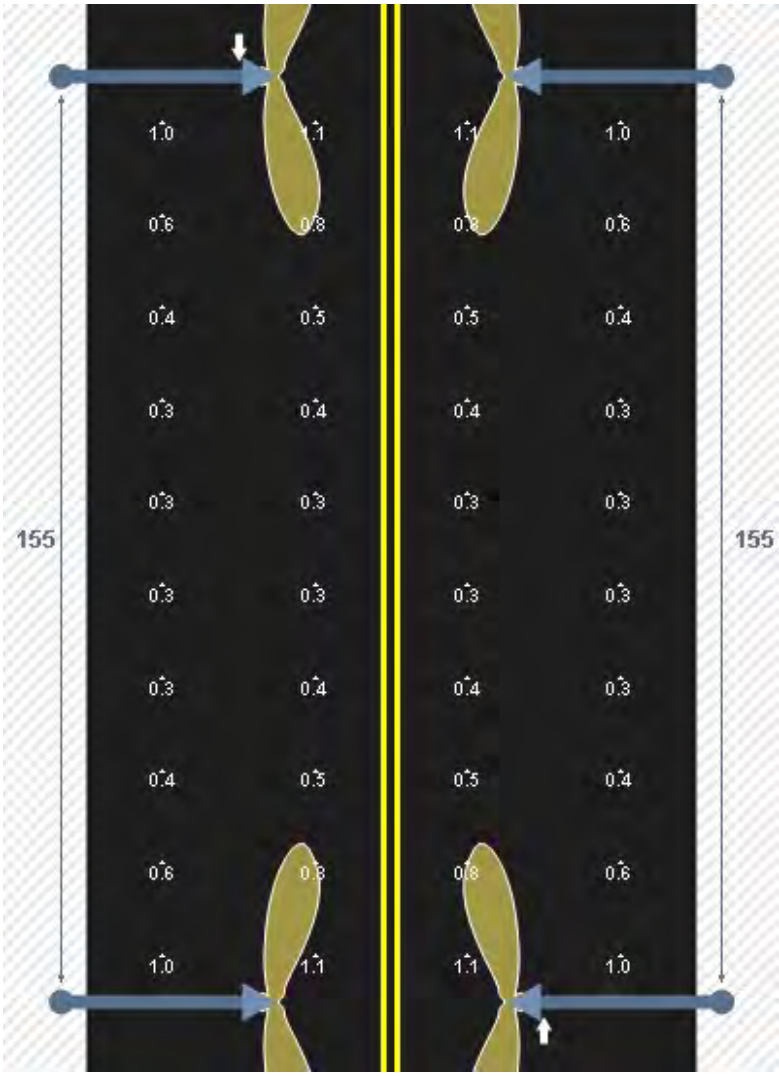

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	0.6	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	1.8	1.8	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.1	1.1	fc
Min	0.3	0.3	fc
Ave/Min:	2	2	
Max/Min:	3.8	3.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Sunday, May 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

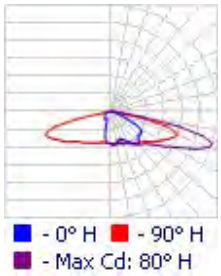
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	155 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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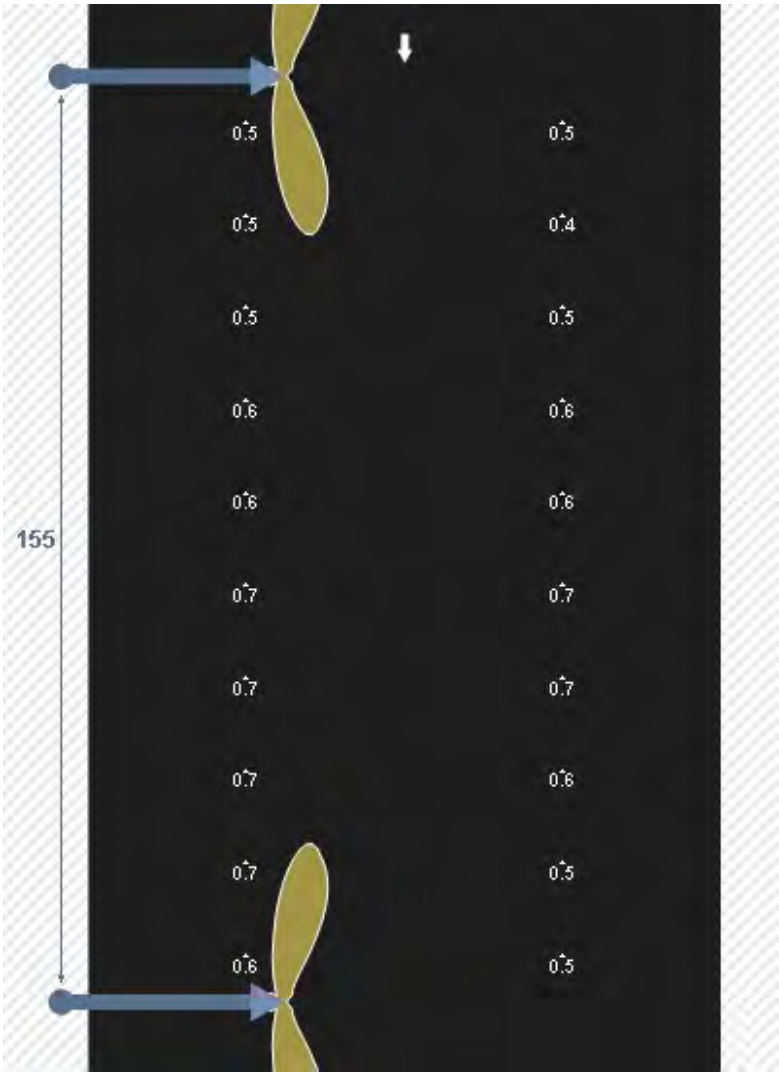

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.3	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.2	--	fc
Ave/Min:	2.3	--	
Max/Min:	4.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

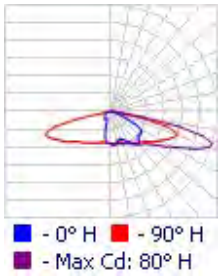
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

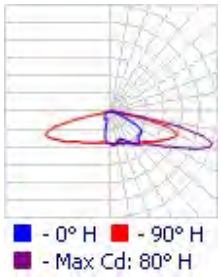
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	310 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	310 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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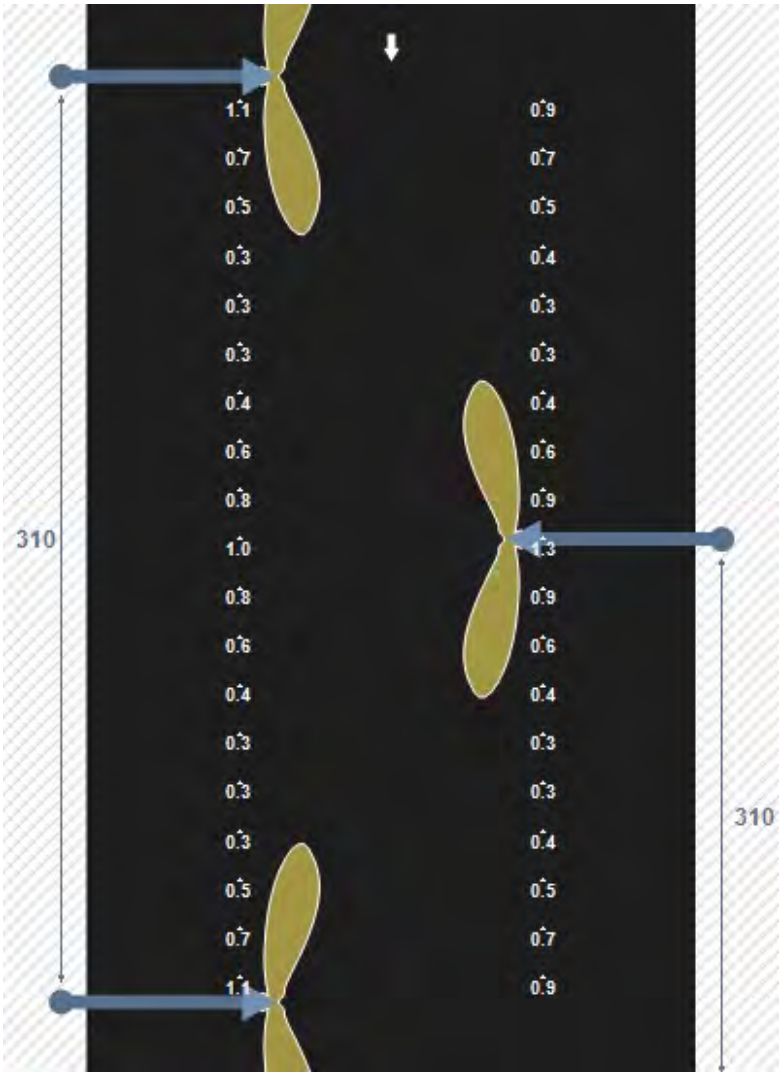

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.3	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.3	--	fc
Ave/Min:	1.9	--	
Max/Min:	4.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

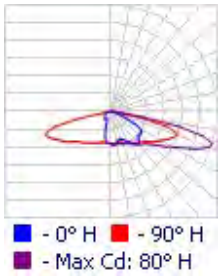
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

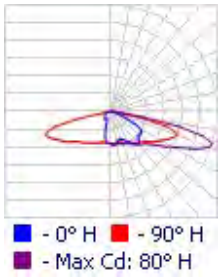
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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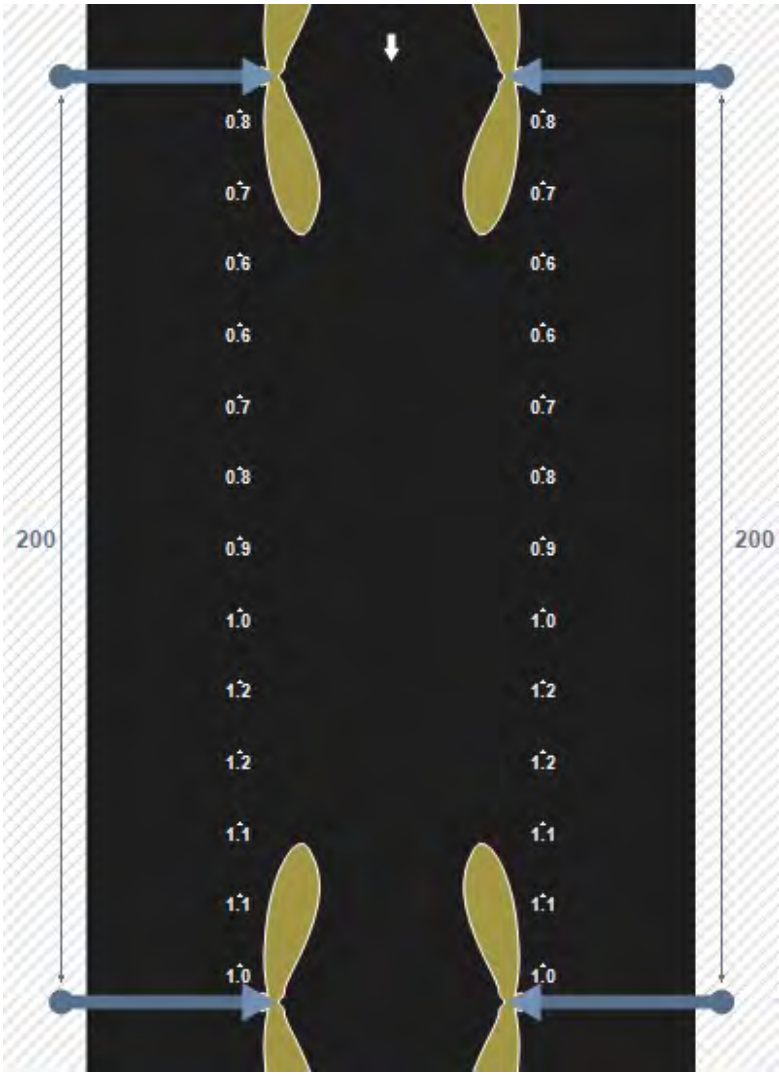

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.3	--	
STV:	3.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2	--	fc
Min	0.3	--	fc
Ave/Min:	3.1	--	
Max/Min:	7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Sunday, May 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

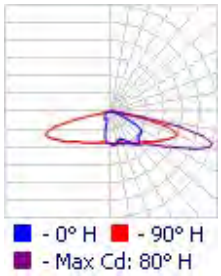
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	165.04 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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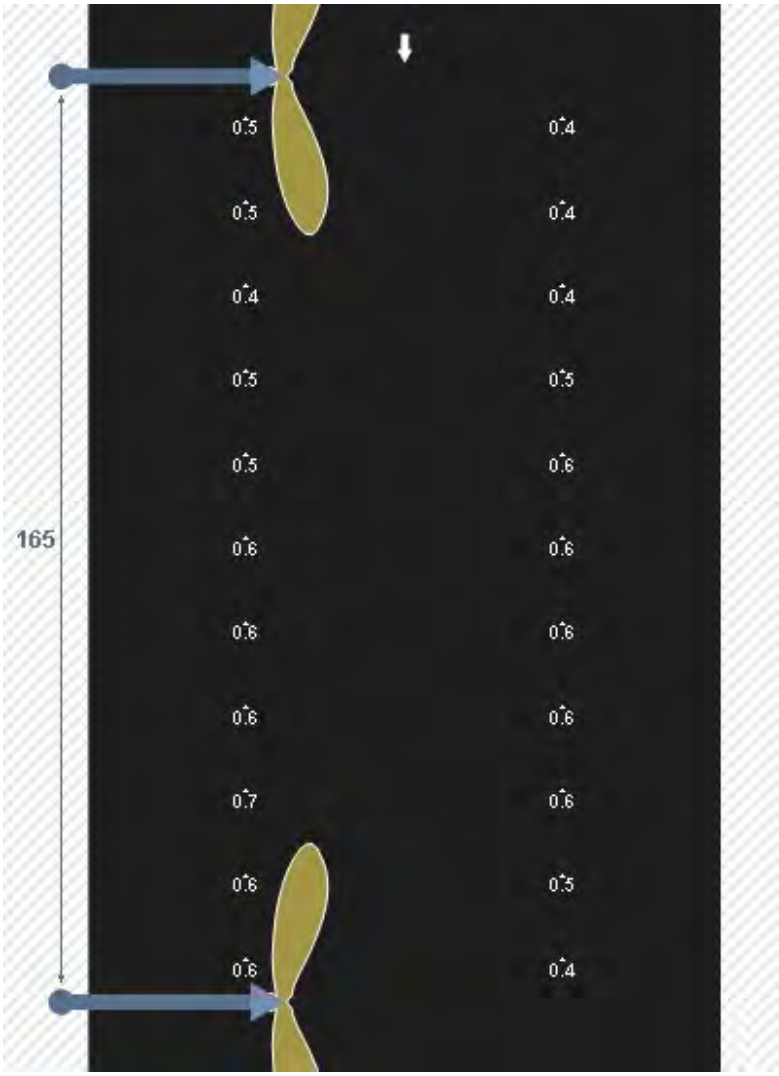

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.6	--	
Lv Ratio:	0.3	--	
STV:	2.1	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.2	--	fc
Ave/Min:	2.6	--	
Max/Min:	5.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Wednesday, April 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

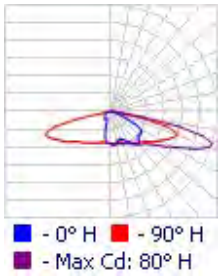
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

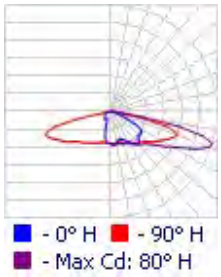
Left Side - American Electric Lighting: ATB0 10BLEDE70 XXXXX R2 3K

Cycle Spacing:	162.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	2670
Staggered:	False	Wattage:	25
Light Loss Factor:	0.92	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 10BLEDE70 XXXXX R2 3K

Cycle Spacing:	162.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	2670
Staggered:	True	Wattage:	25
Light Loss Factor:	0.92	Lamp Count:	1



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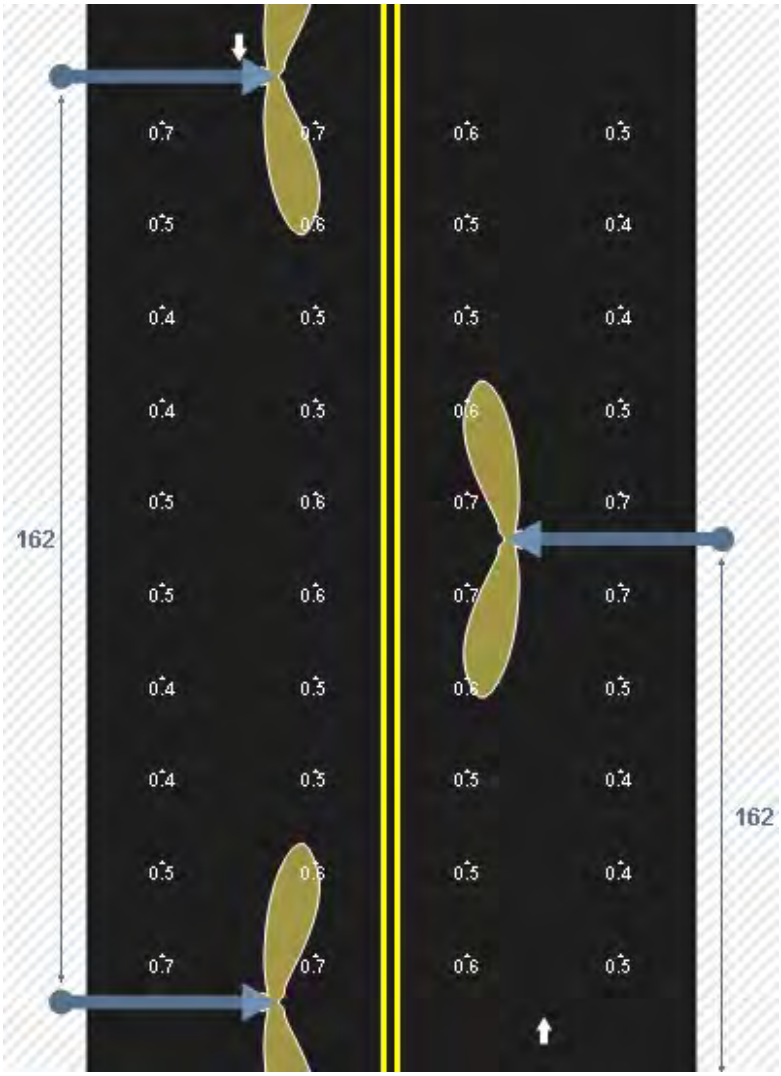

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

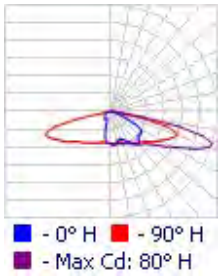
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

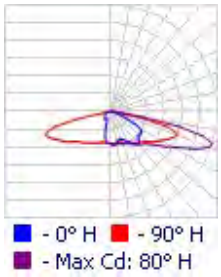
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	309.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	309.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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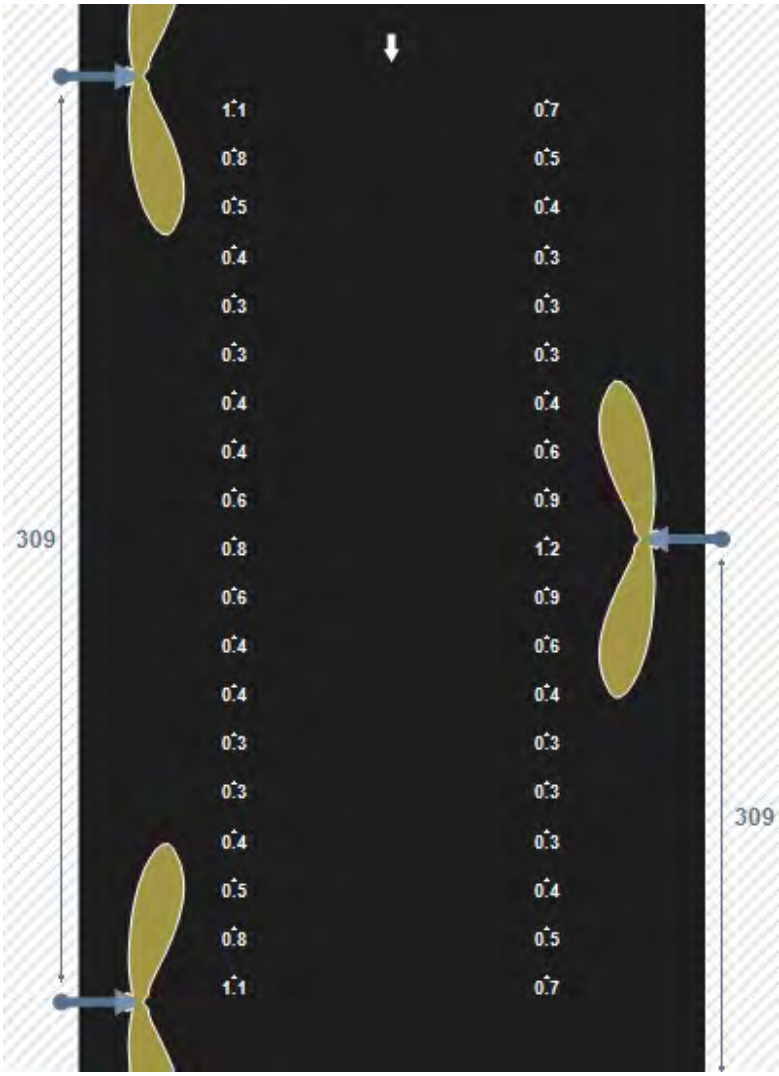

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.8	--	
Max/Min:	2.7	--	
Lv Ratio:	0.3	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.3	--	fc
Ave/Min:	1.7	--	
Max/Min:	3.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

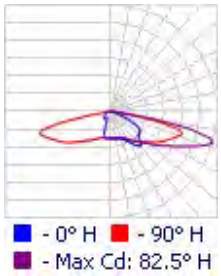
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

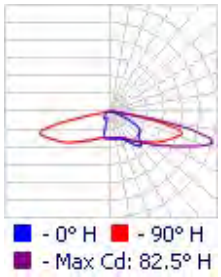
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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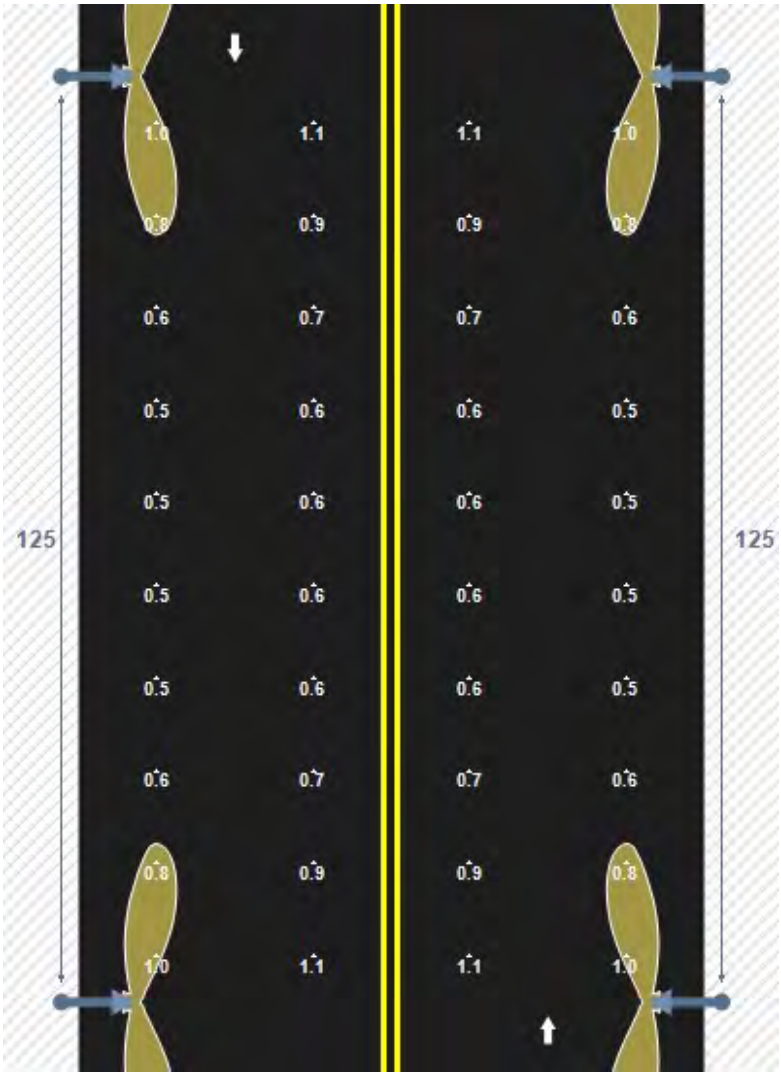

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.1	1.1	fc
Min	0.5	0.5	fc
Ave/Min:	1.6	1.6	
Max/Min:	2.4	2.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

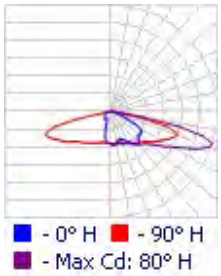
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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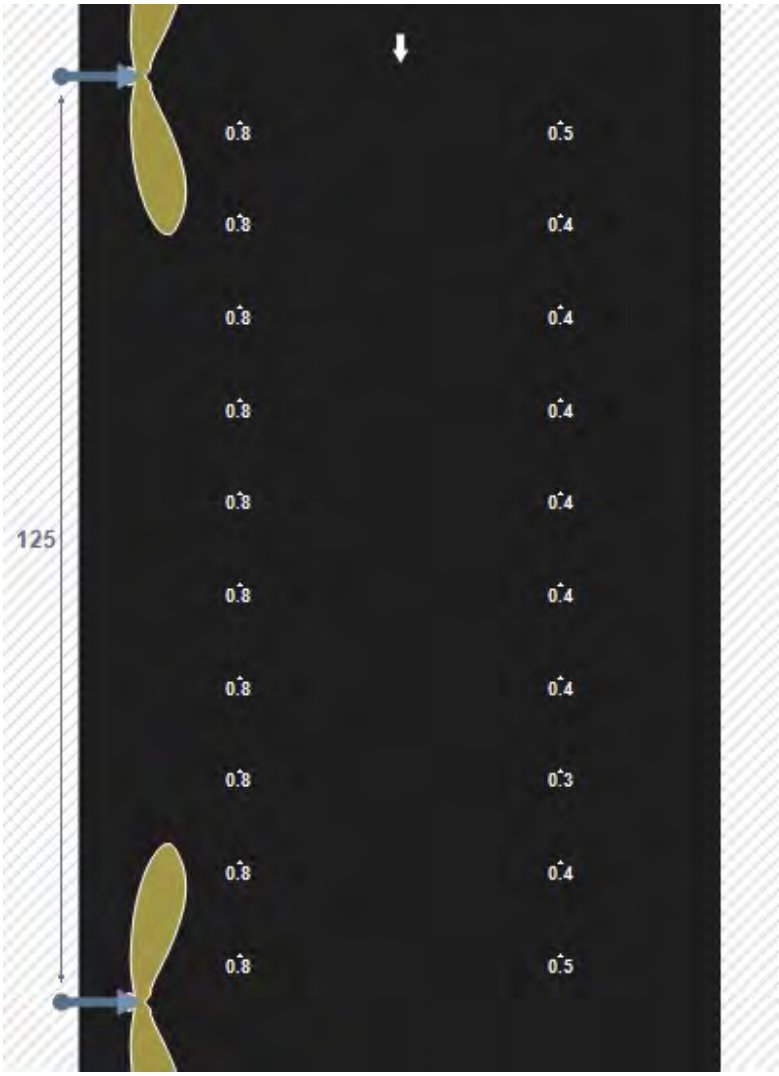

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.8	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.2	--	fc
Min	0.4	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

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Project Description

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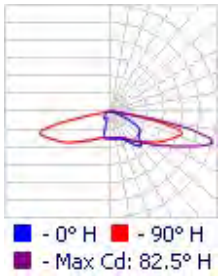
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

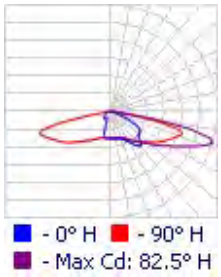
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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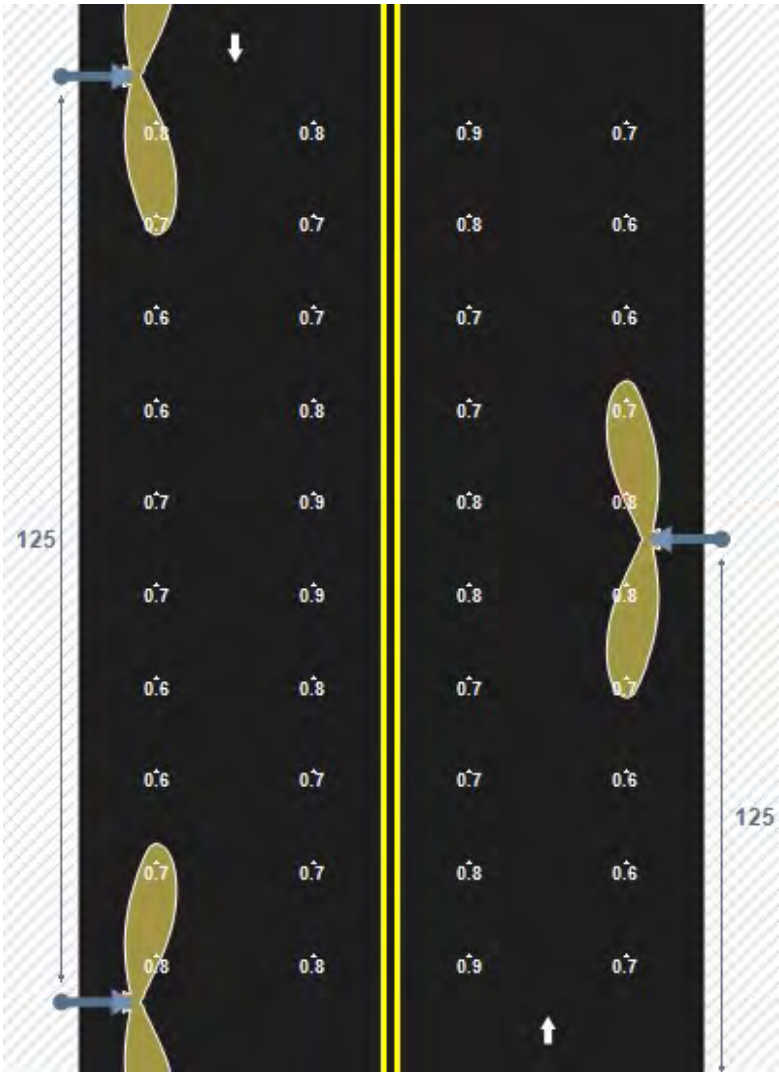

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	0.8	0.8	fc
Min	0.6	0.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

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Project Description

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Your Email

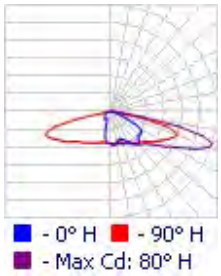
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

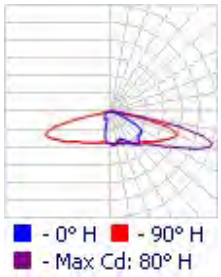
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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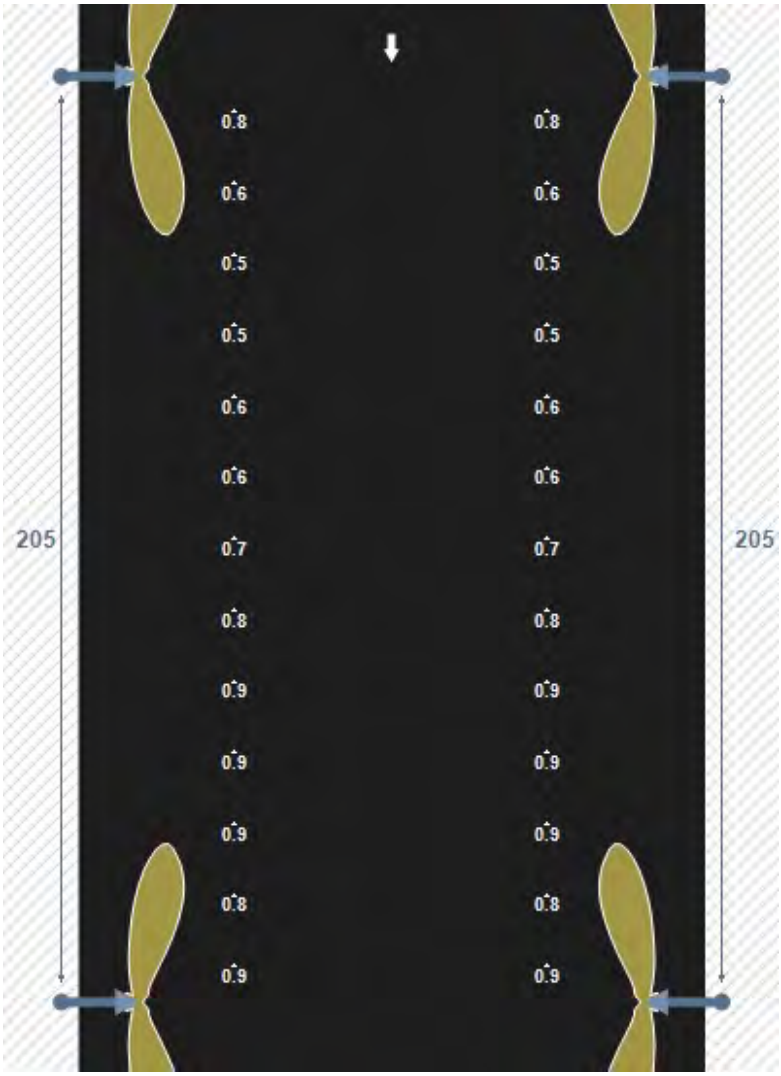

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.3	--	
STV:	3.7	--	

Illuminance	Left	Right	
Average:	0.8	--	fc
Max:	1.8	--	fc
Min	0.3	--	fc
Ave/Min:	2.6	--	
Max/Min:	5.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Your Email

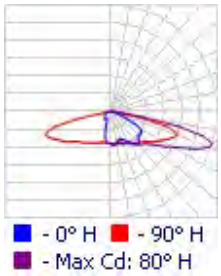
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

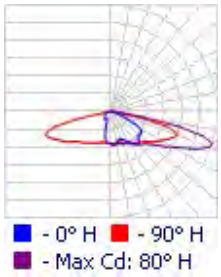
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	216.96 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	216.96 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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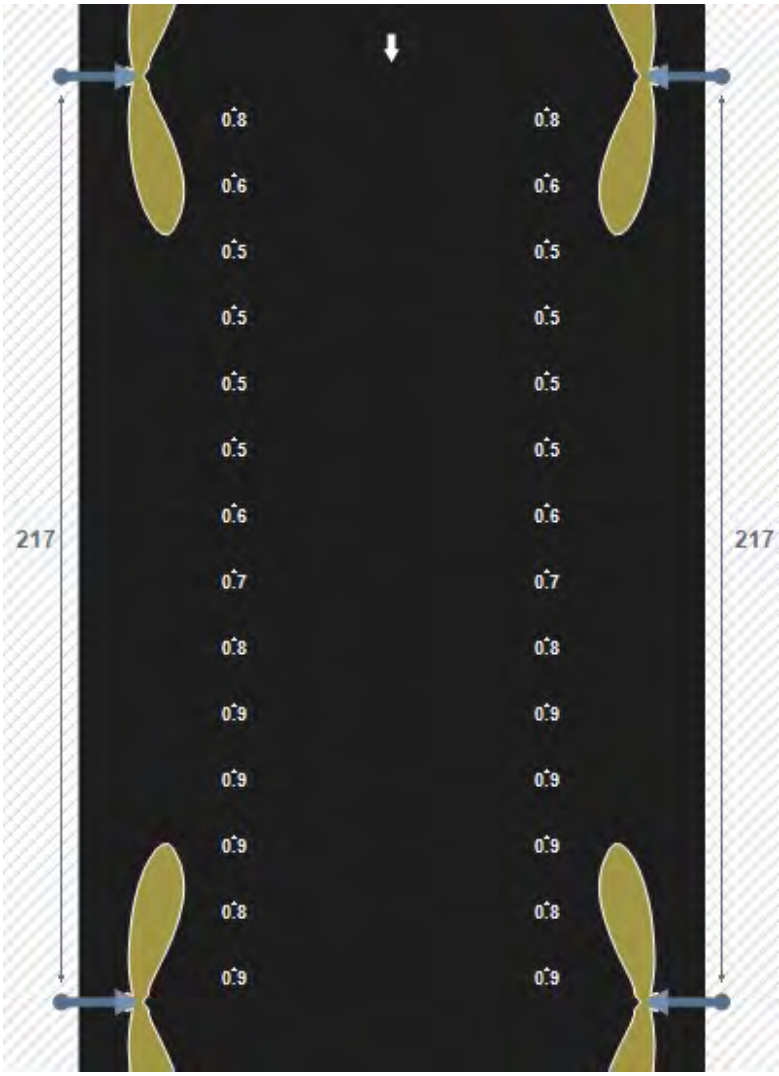

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.7	--	cd/m²	Average:	0.8	--	fc	Average:	--	--	fc
Max:	0.9	--	cd/m²	Max:	1.8	--	fc	Min	--	--	fc
Min	0.5	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	3	--		Ev Min:	--	--	fc
Max/Min:	2	--		Max/Min:	7	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	4	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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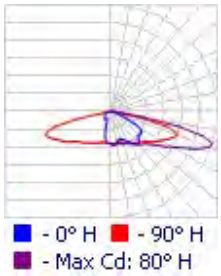
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	154.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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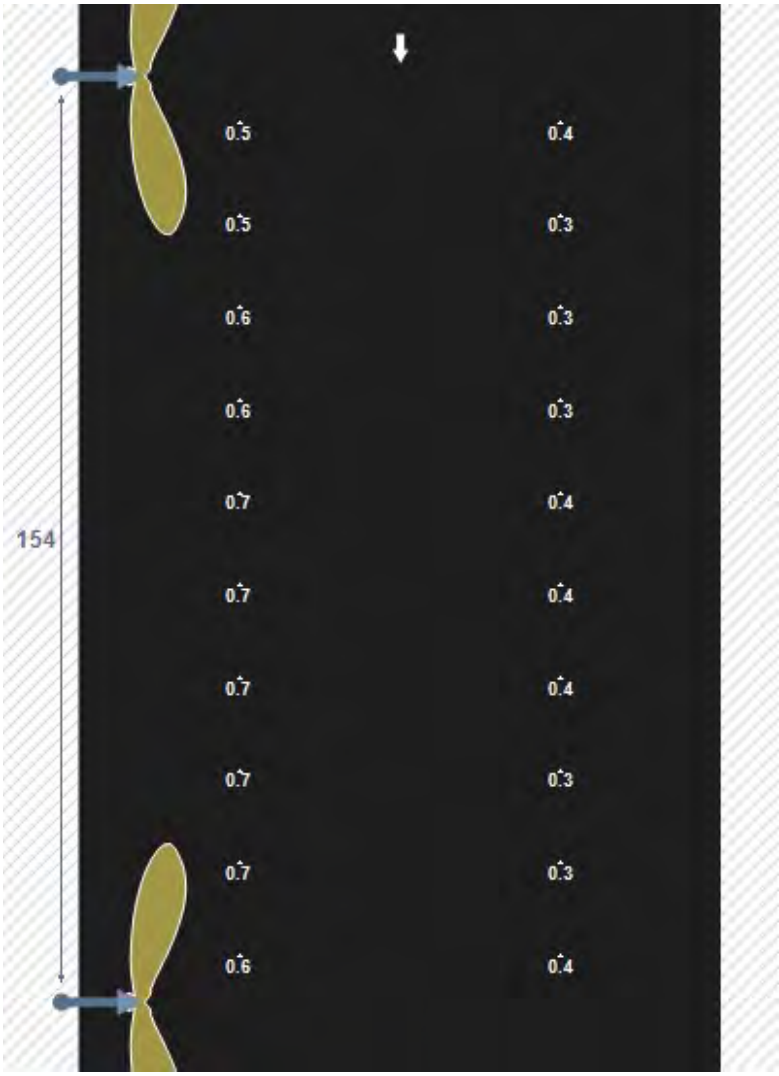

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.8	--	
Max/Min:	2.6	--	
Lv Ratio:	0.3	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.3	--	fc
Ave/Min:	1.7	--	
Max/Min:	3.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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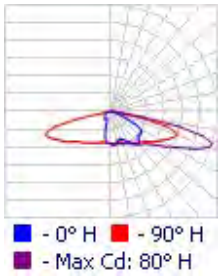
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

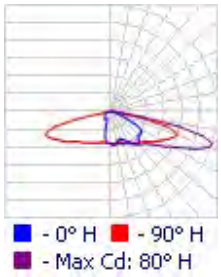
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	320.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	320.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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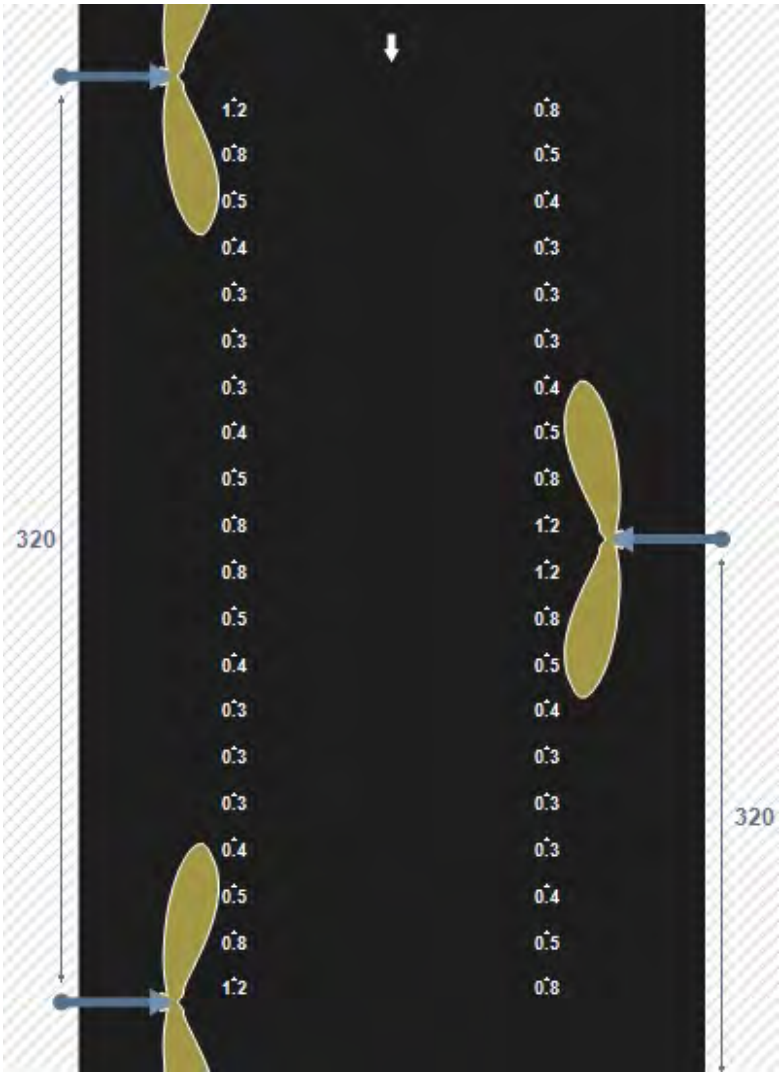

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.4	--	
Lv Ratio:	0.3	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.3	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

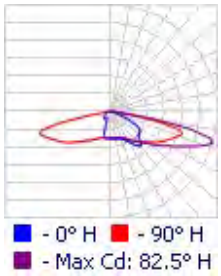
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

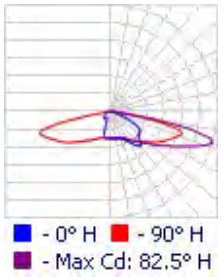
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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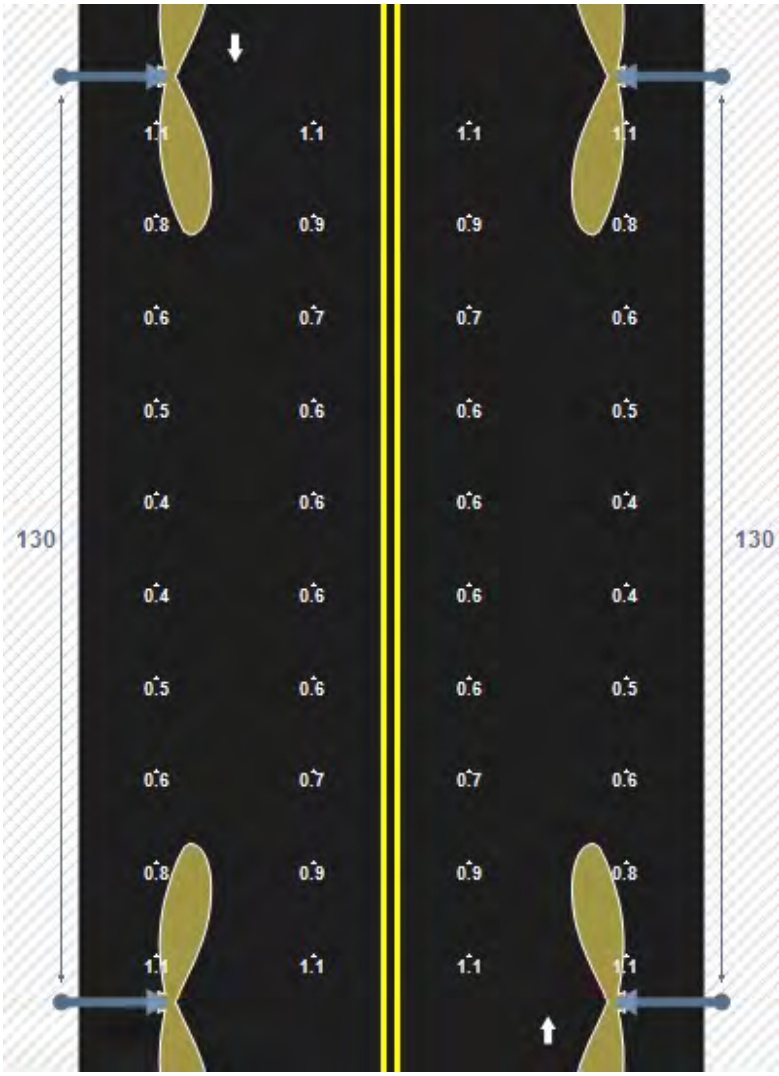

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.1	1.1	fc
Min	0.4	0.4	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.5	2.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

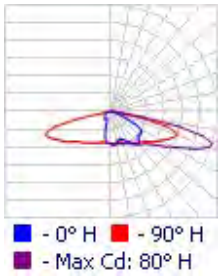
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.6	--	cd/m²	Average:	0.7	--	fc	Average:	--	--	fc
Max:	0.8	--	cd/m²	Max:	1.2	--	fc	Min	--	--	fc
Min	0.4	--	cd/m²	Min	0.4	--	fc	Ave/Min:	--	--	
Ave/Min:	1.7	--		Ave/Min:	1.5	--		Ev Min:	--	--	fc
Max/Min:	2.3	--		Max/Min:	2.8	--		**Bikelane**			
Lv Ratio:	0.2	--						Average:	--	--	fc
STV:	1.7	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

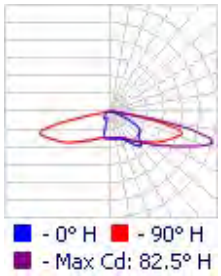
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

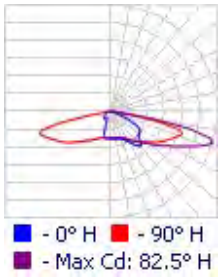
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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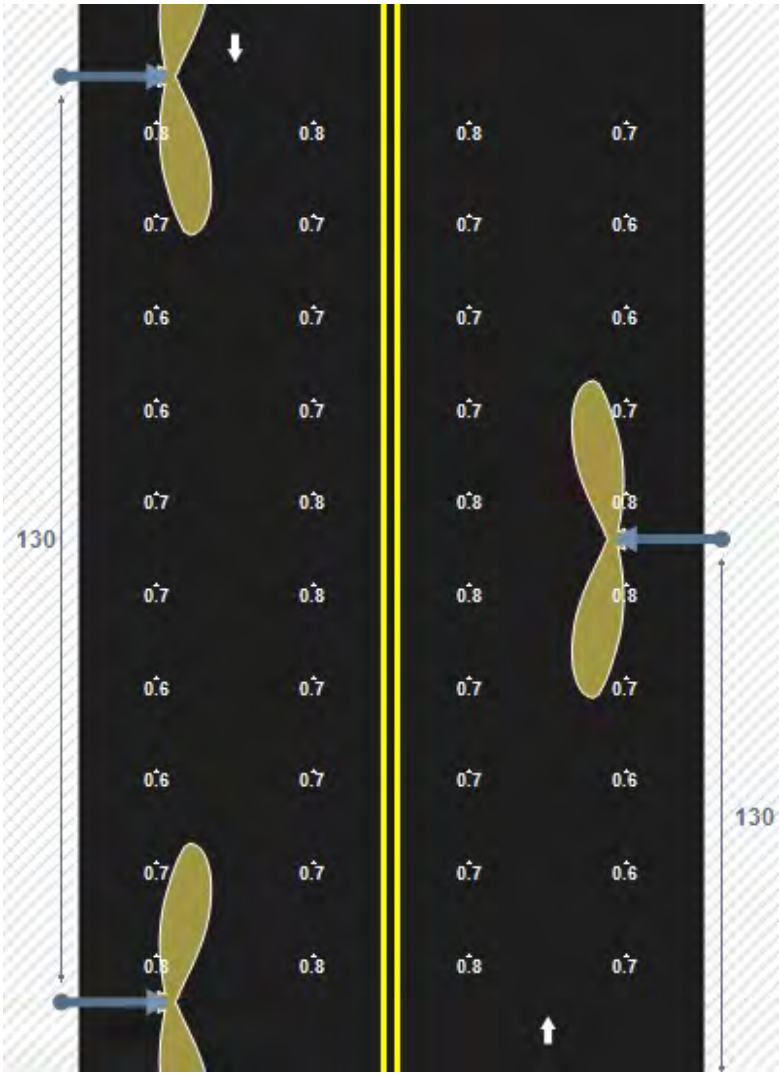

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	0.8	0.8	fc
Min	0.6	0.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

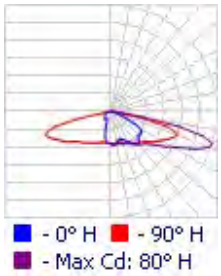
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

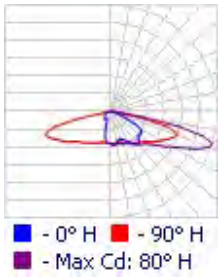
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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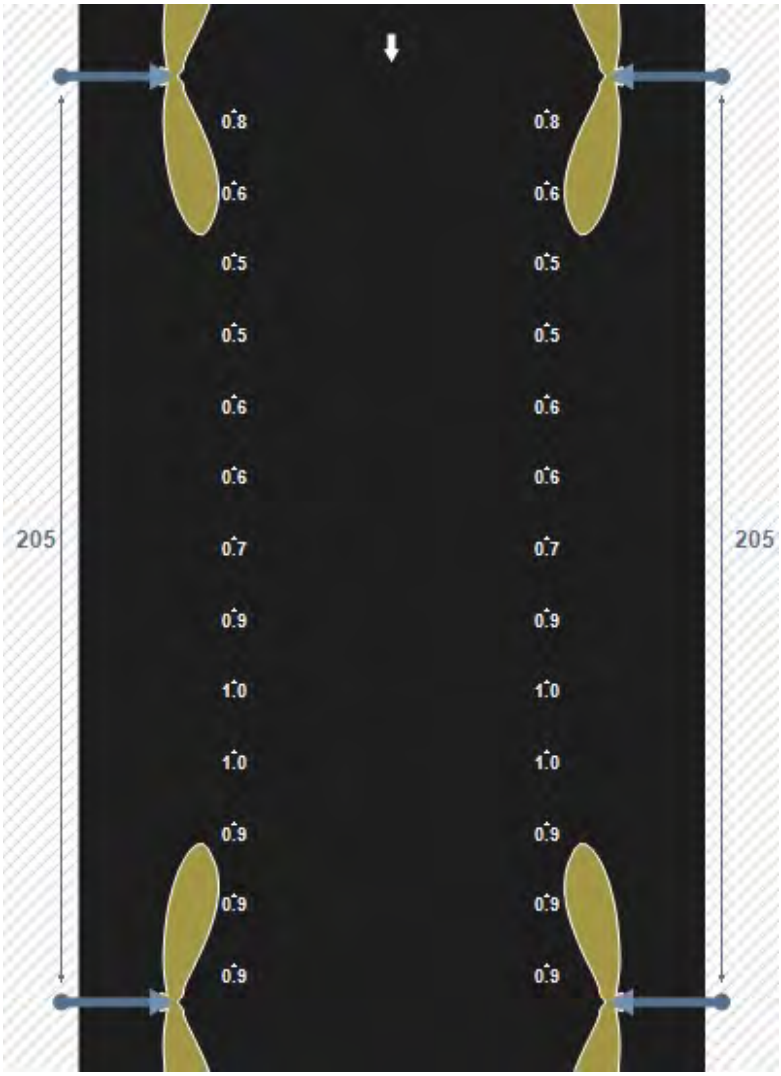

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.8	--	cd/m²	Average:	0.8	--	fc	Average:	--	--	fc
Max:	1	--	cd/m²	Max:	1.9	--	fc	Min	--	--	fc
Min	0.5	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	2.8	--		Ev Min:	--	--	fc
Max/Min:	1.9	--		Max/Min:	6.5	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	3.7	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

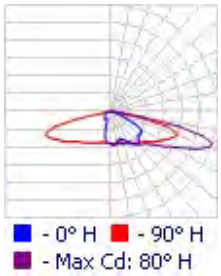
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

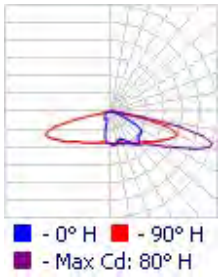
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	212.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	212.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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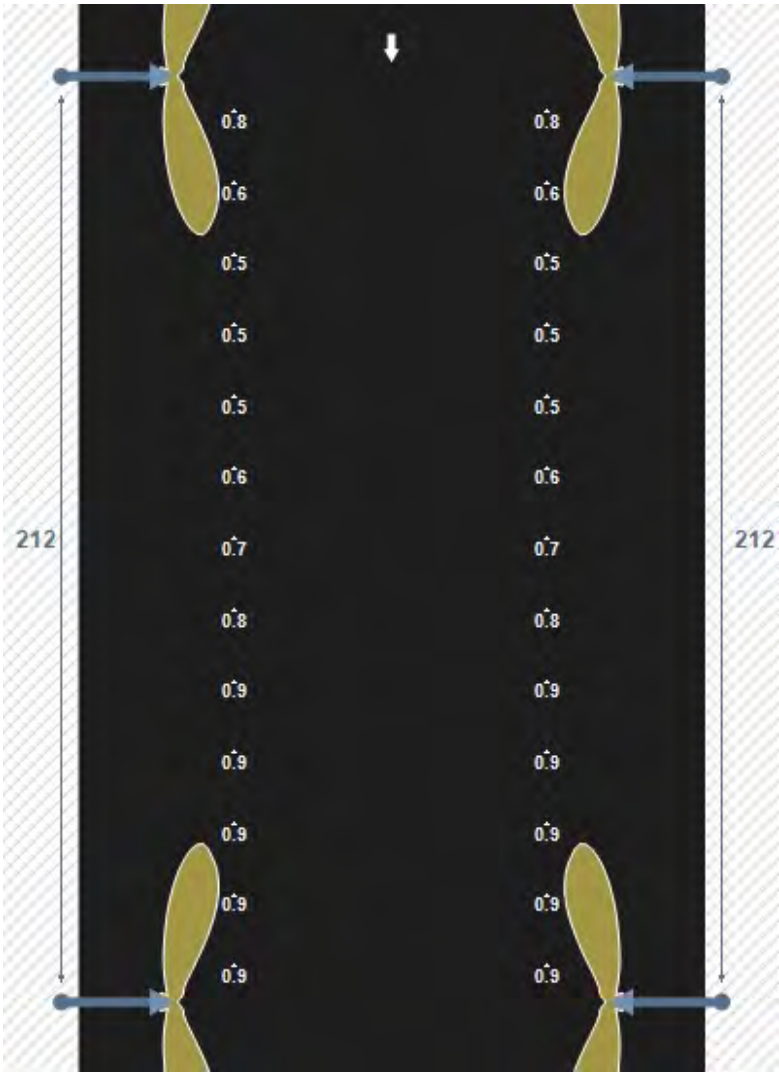

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2	--	
Lv Ratio:	0.3	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	0.8	--	fc
Max:	1.9	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	7.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

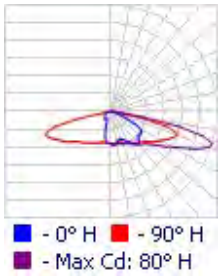
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	160.04 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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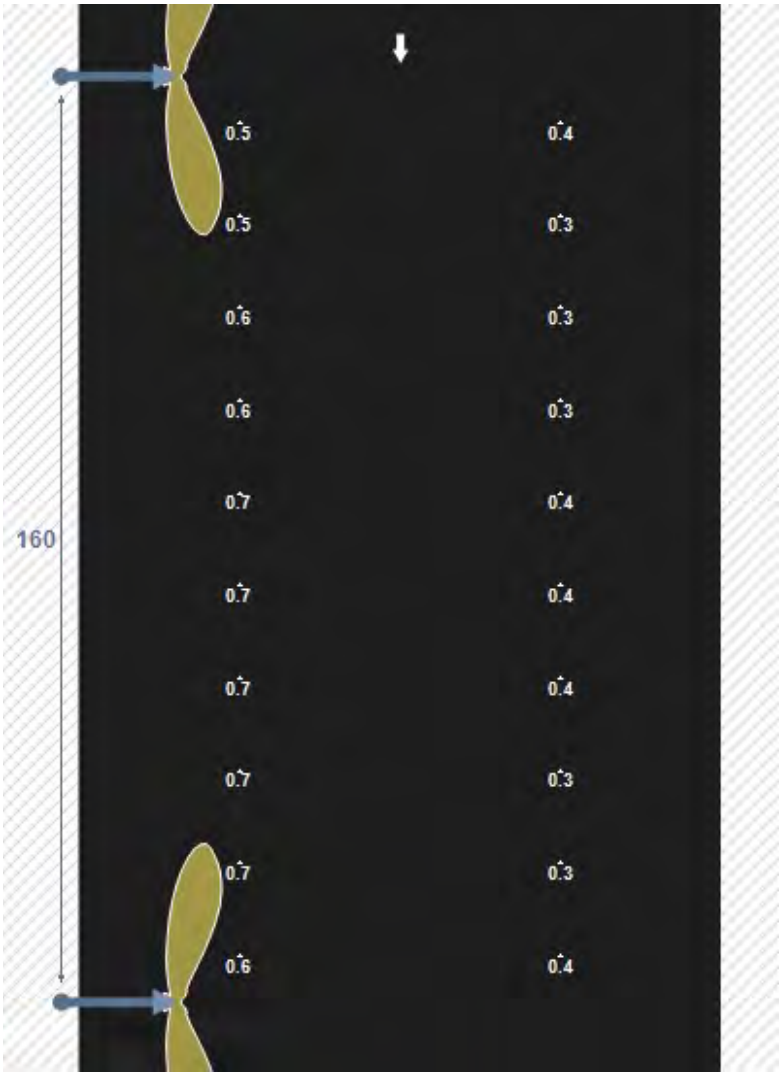
Visual - Roadway Tool

www.Visual-3D.com



Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.7	--	cd/m²	Max:	1.2	--	fc	Min	--	--	fc
Min	0.3	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.8	--		Ave/Min:	2	--		Ev Min:	--	--	fc
Max/Min:	2.6	--		Max/Min:	4.2	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	2	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

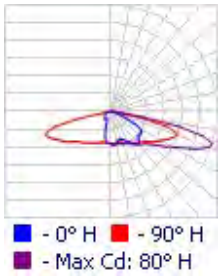
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

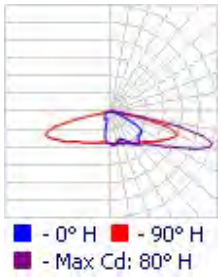
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	324.7 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	324.7 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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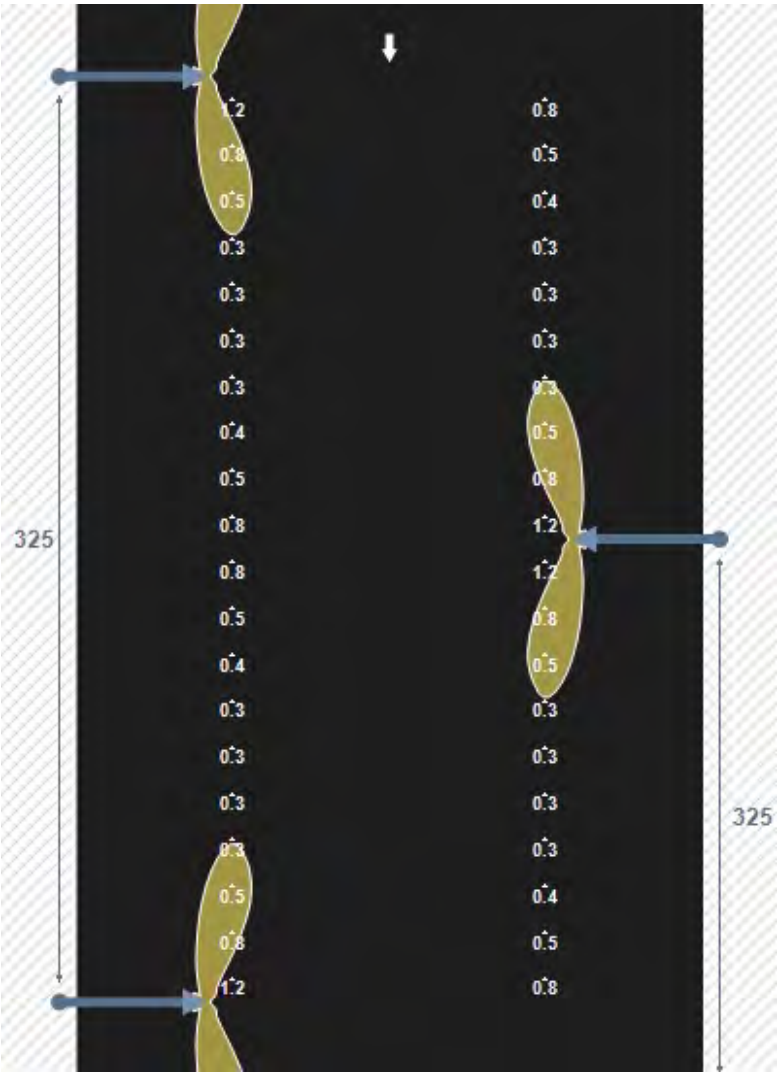

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.3	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.3	--	fc
Ave/Min:	1.9	--	
Max/Min:	4.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

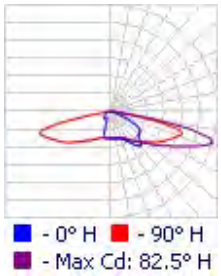
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

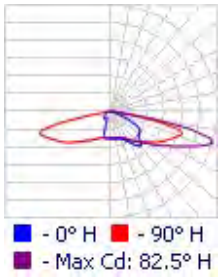
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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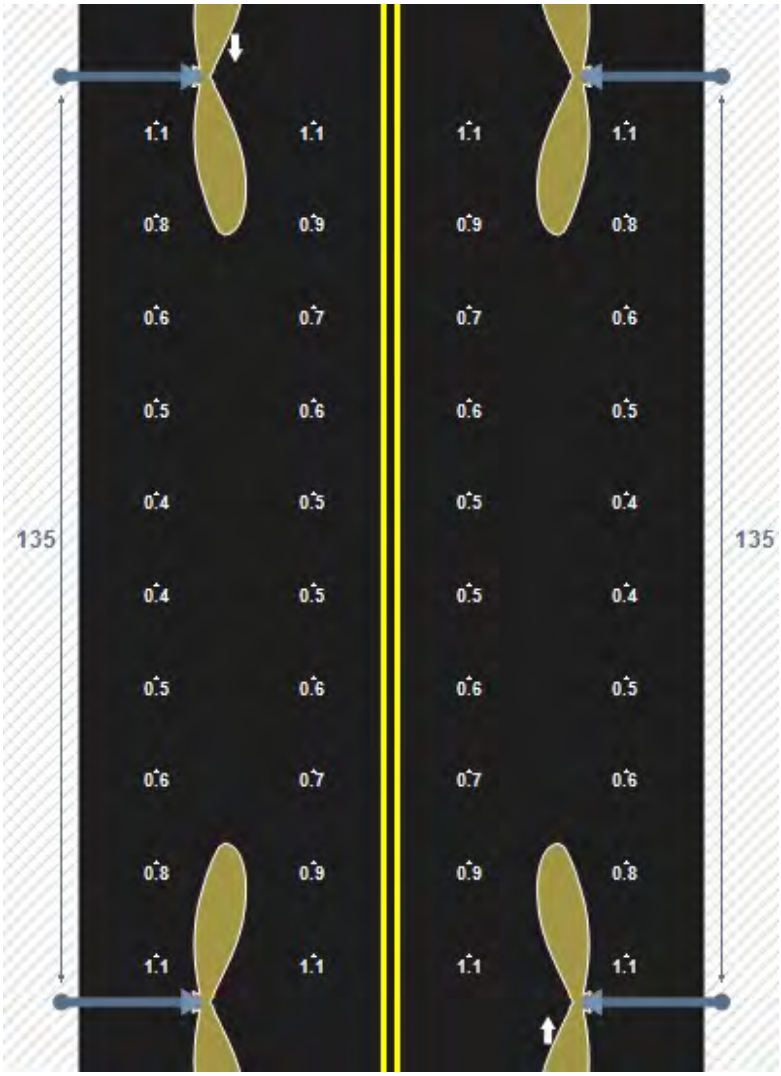

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.1	1.1	fc
Min	0.4	0.4	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.6	2.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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Your Email

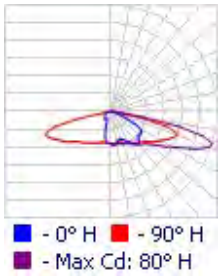
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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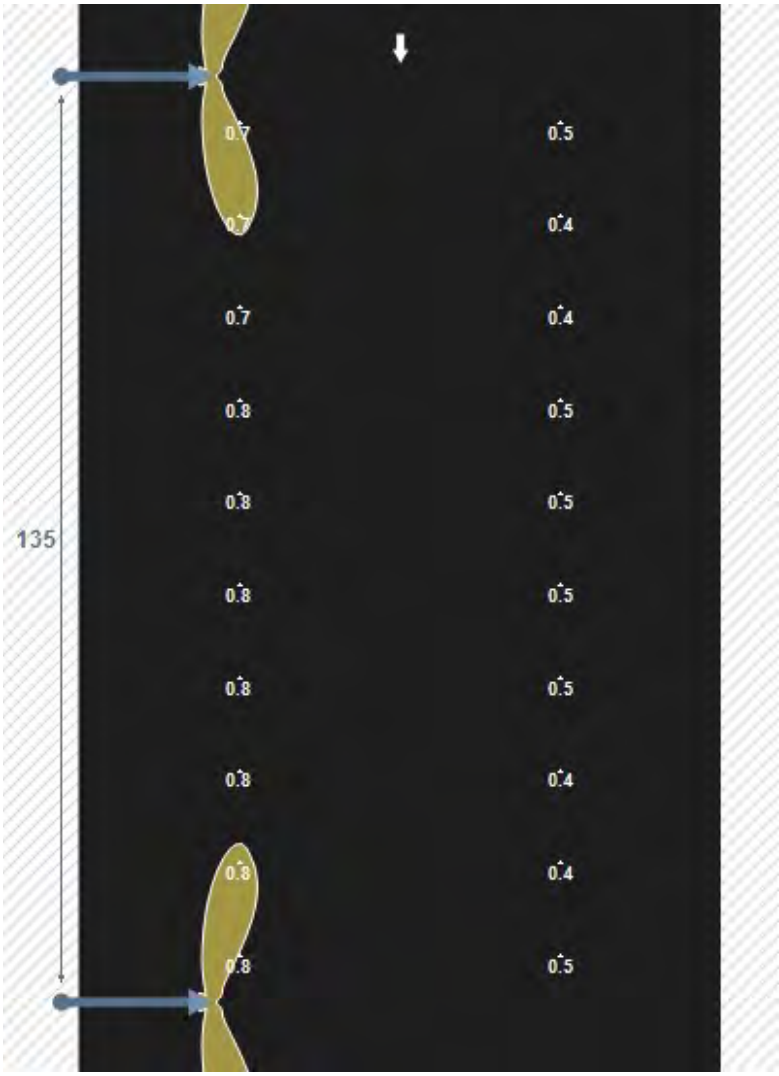

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.4	--	fc
Ave/Min:	1.7	--	
Max/Min:	3.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

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Project Description

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Your Email

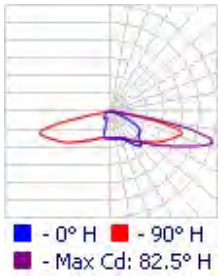
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

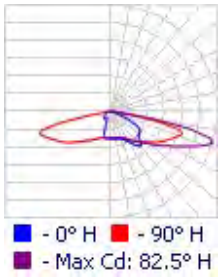
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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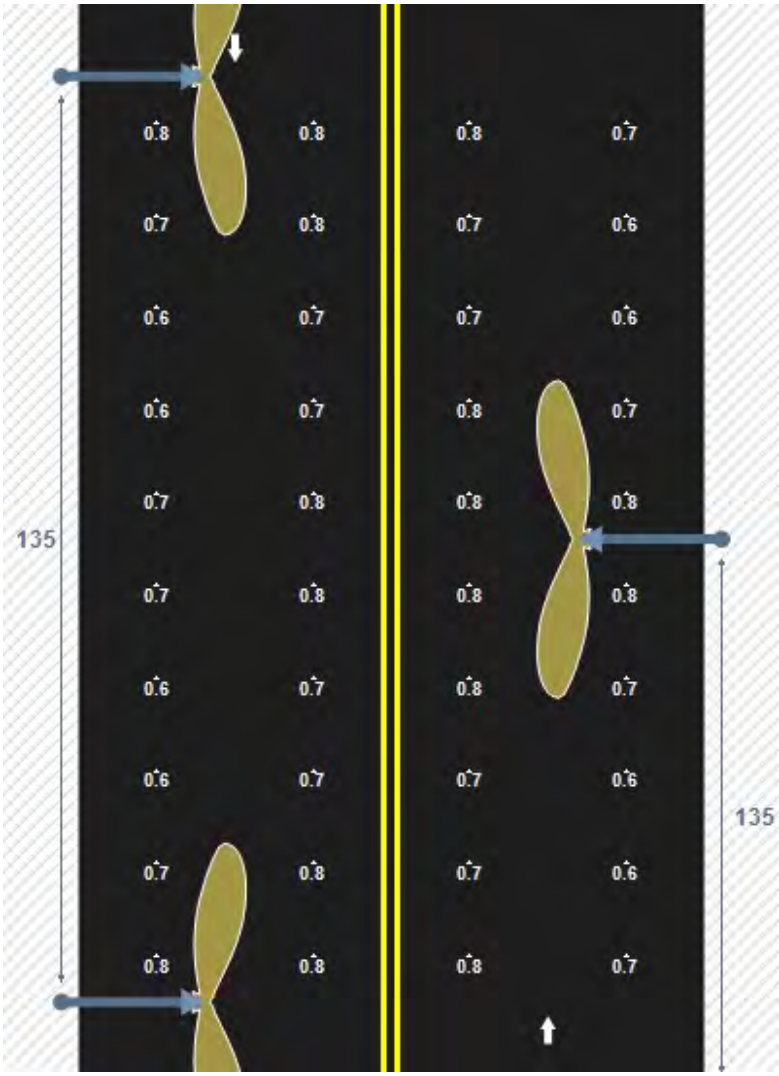

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	0.8	0.8	fc
Min	0.6	0.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

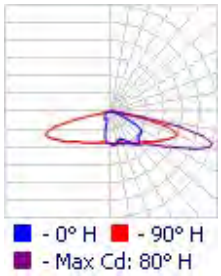
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

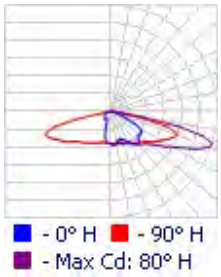
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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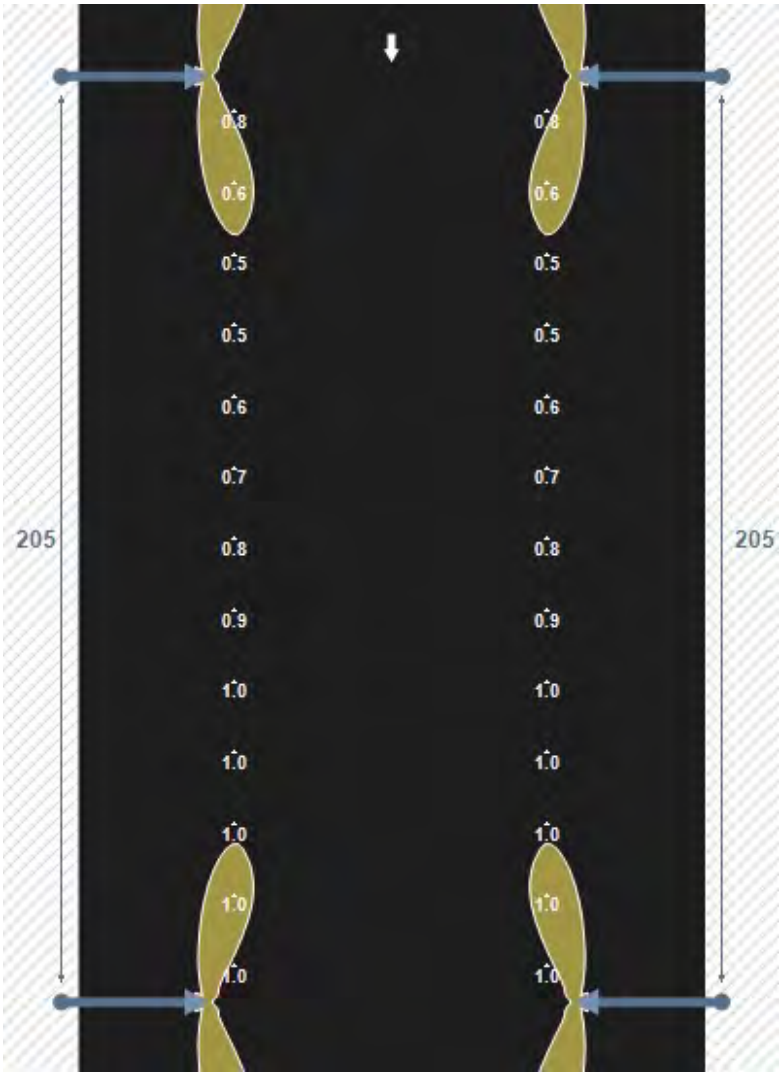

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	1.9	--	
Lv Ratio:	0.3	--	
STV:	3.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

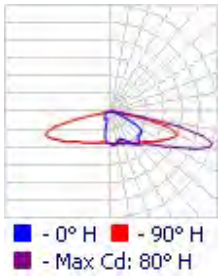
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

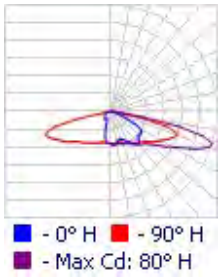
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	208.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	208.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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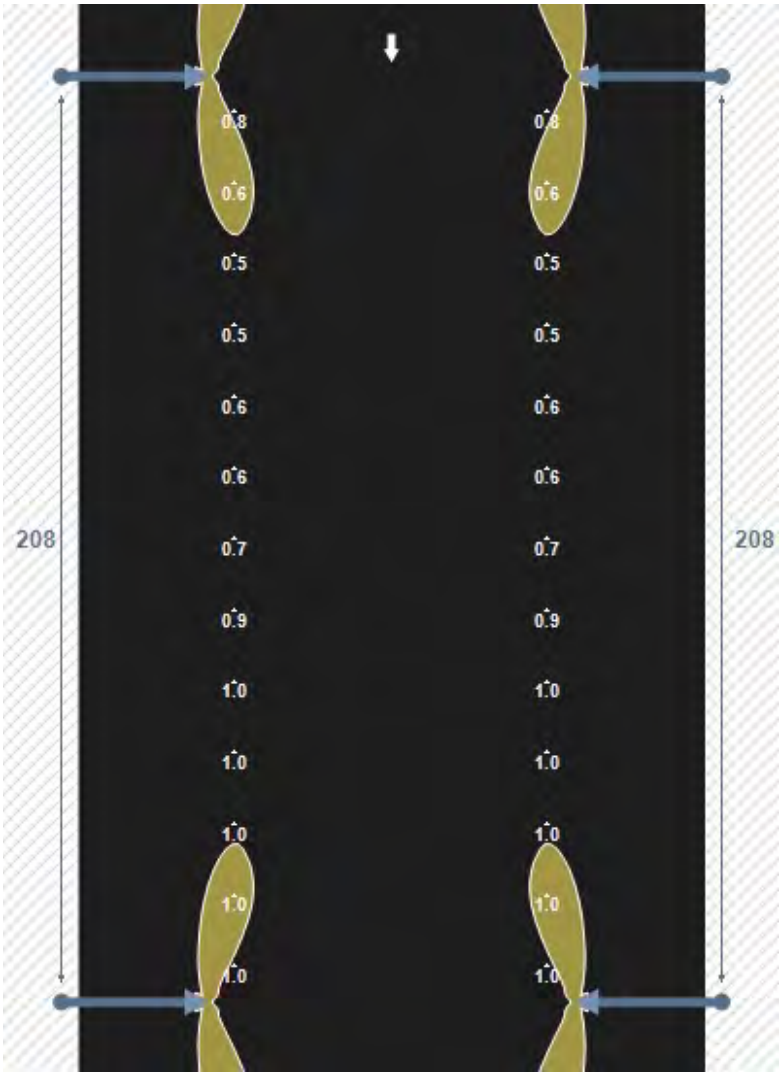

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.8	--	cd/m²	Average:	0.9	--	fc	Average:	--	--	fc
Max:	1	--	cd/m²	Max:	2	--	fc	Min	--	--	fc
Min	0.5	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.6	--		Ave/Min:	3	--		Ev Min:	--	--	fc
Max/Min:	2	--		Max/Min:	7.1	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	3.9	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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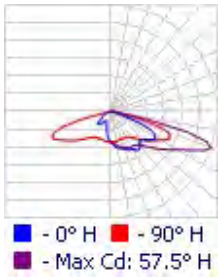
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

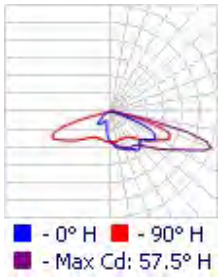
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	271.06 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	271.06 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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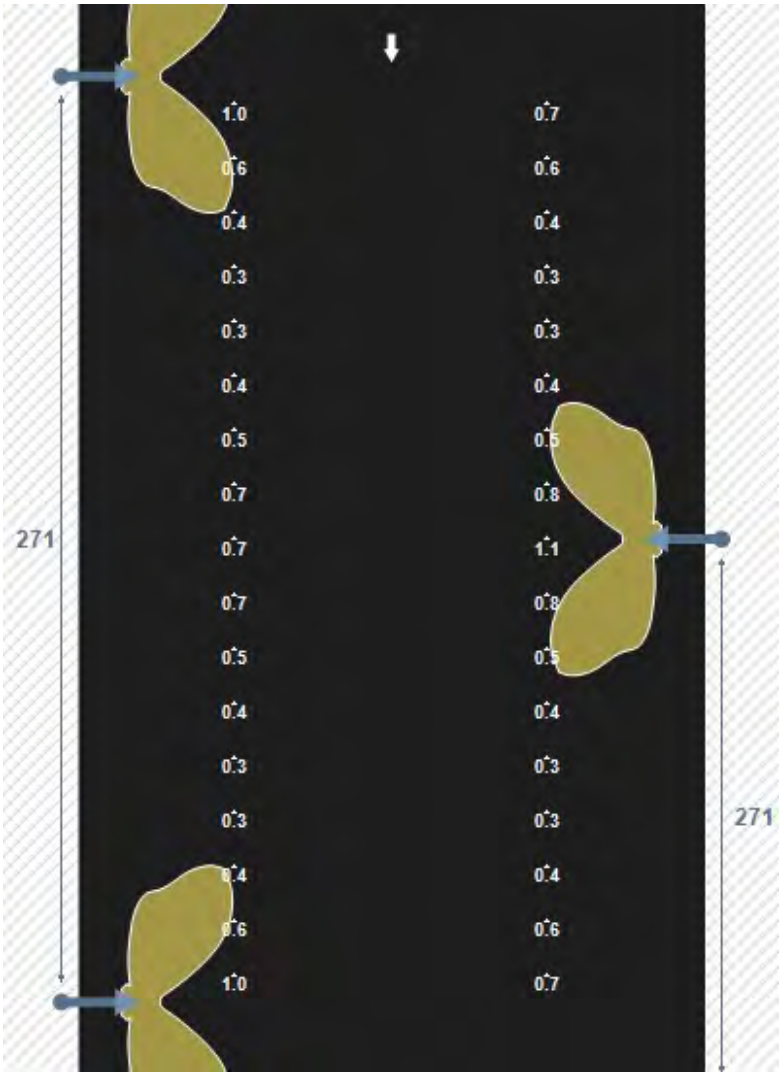

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2.1	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.3	--	fc
Ave/Min:	1.7	--	
Max/Min:	3.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

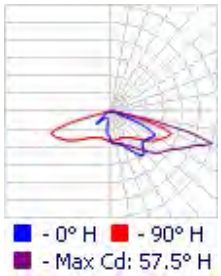
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

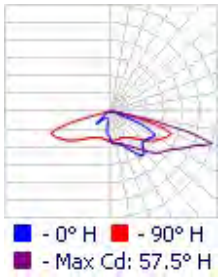
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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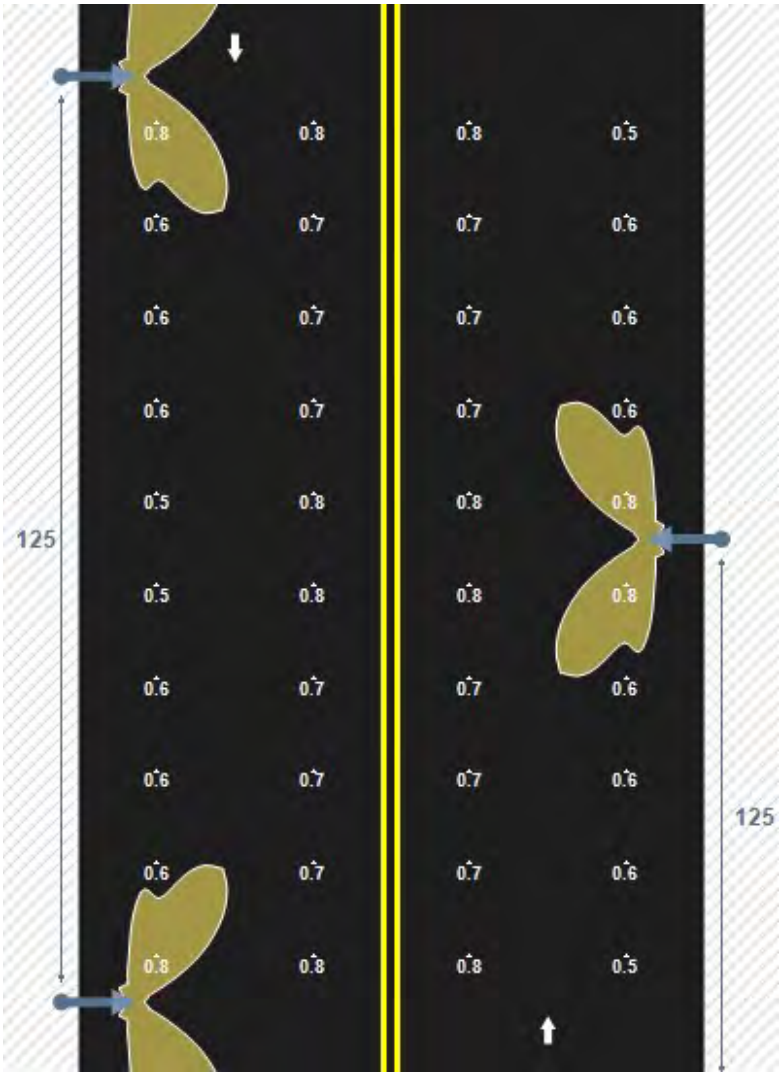

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	0.8	0.8	fc
Min	0.5	0.5	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

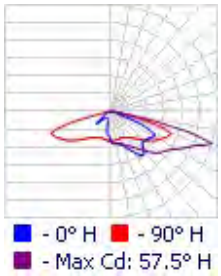
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

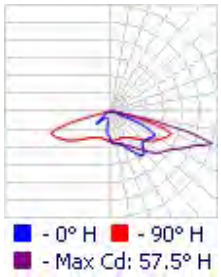
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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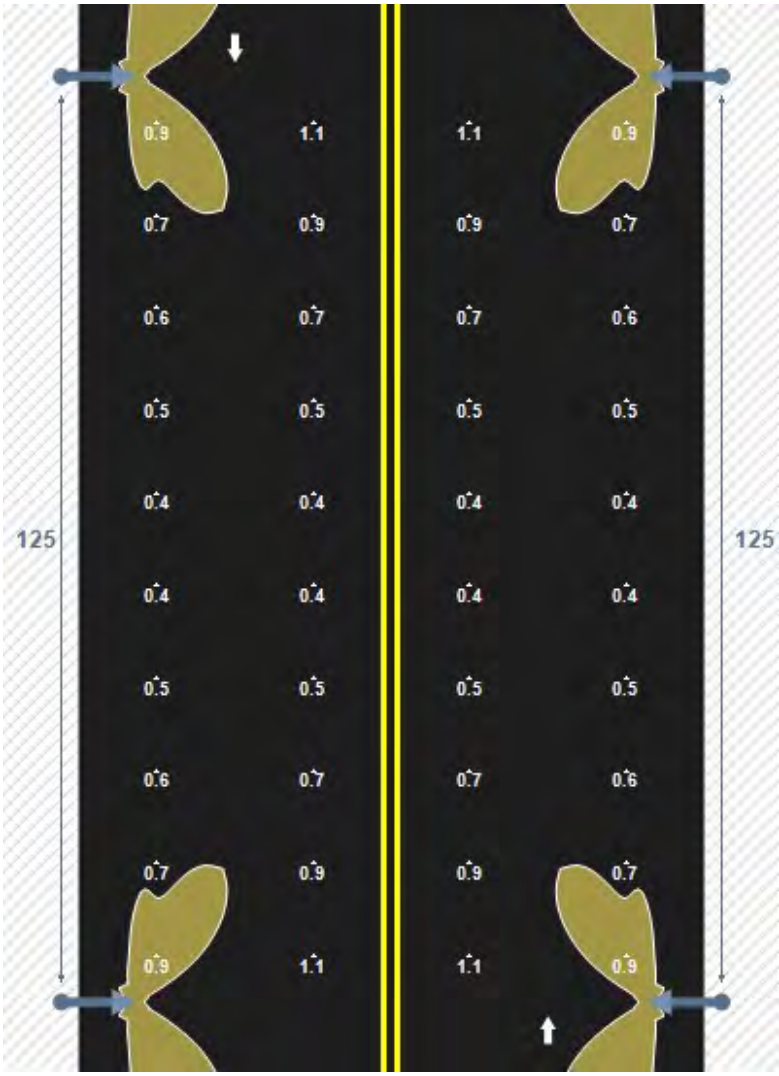

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.8	1.8	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.1	1.1	fc
Min	0.4	0.4	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

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Company Name
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Your Email

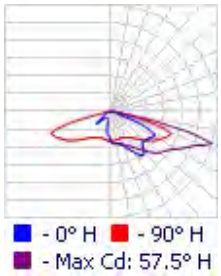
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

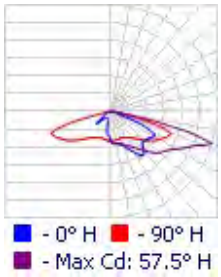
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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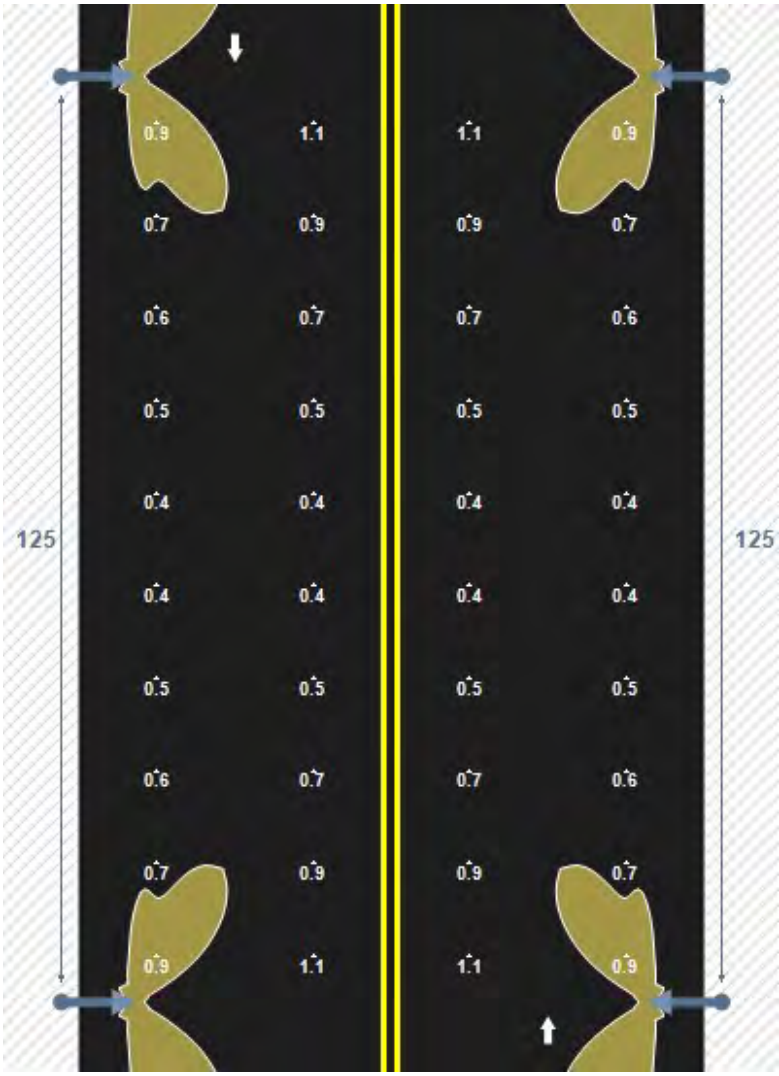

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.8	1.8	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.1	1.1	fc
Min	0.4	0.4	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.8	2.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

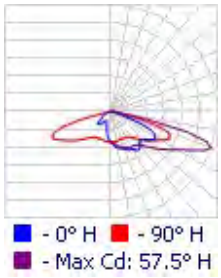
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

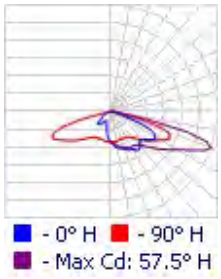
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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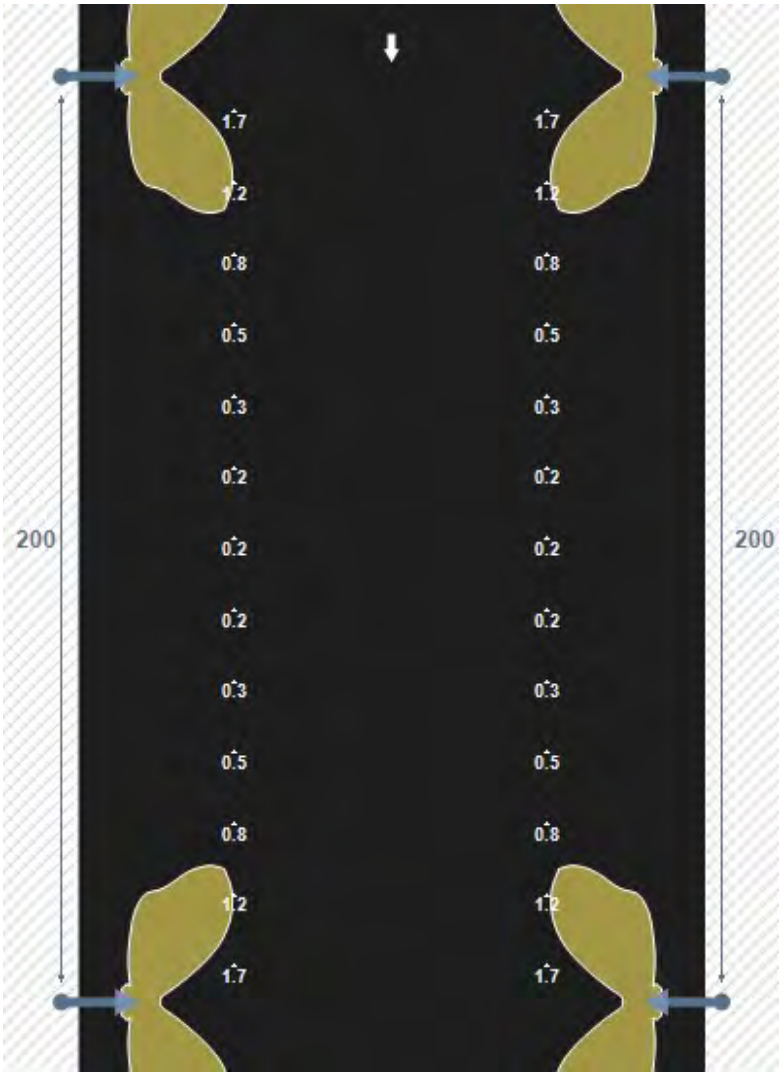

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.9	--	
Max/Min:	2.8	--	
Lv Ratio:	0.3	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.7	--	fc
Min	0.2	--	fc
Ave/Min:	4.4	--	
Max/Min:	10.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

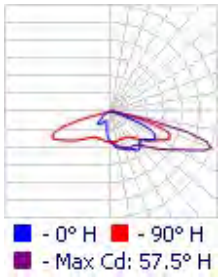
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

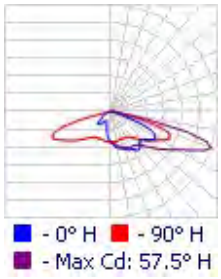
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	180.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	180.72 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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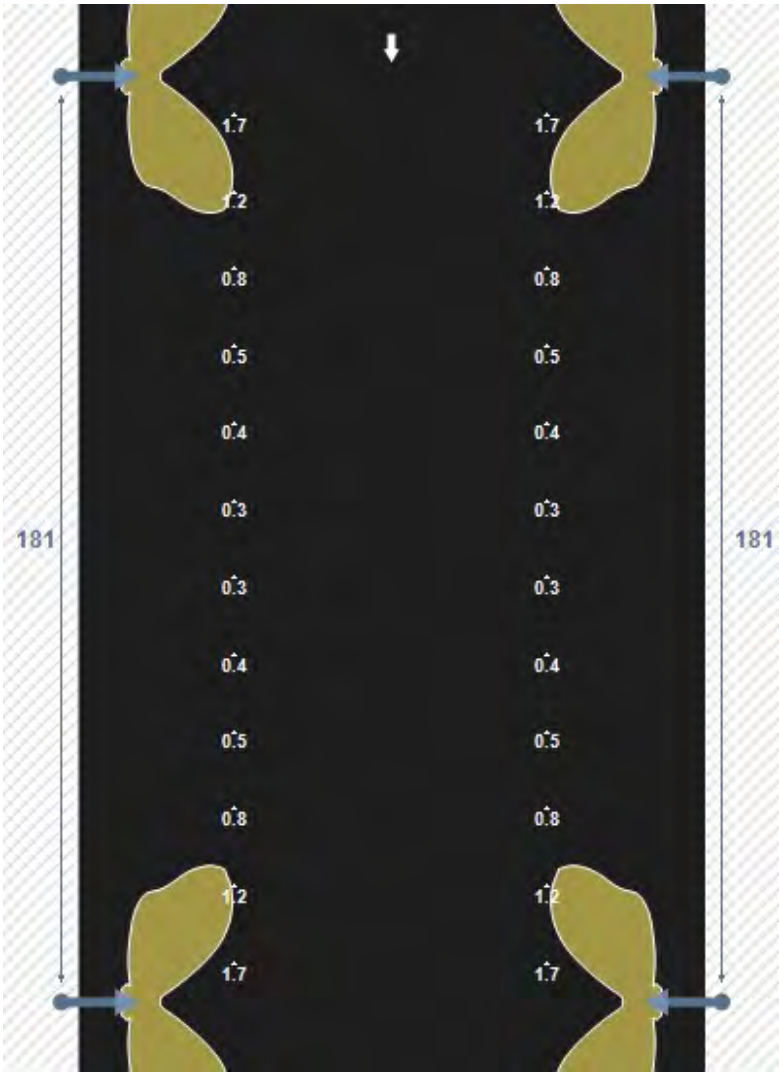

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	0.8	--	fc
Max:	1.7	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

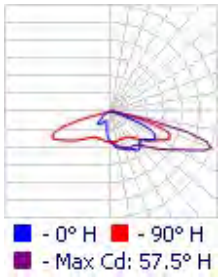
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	134.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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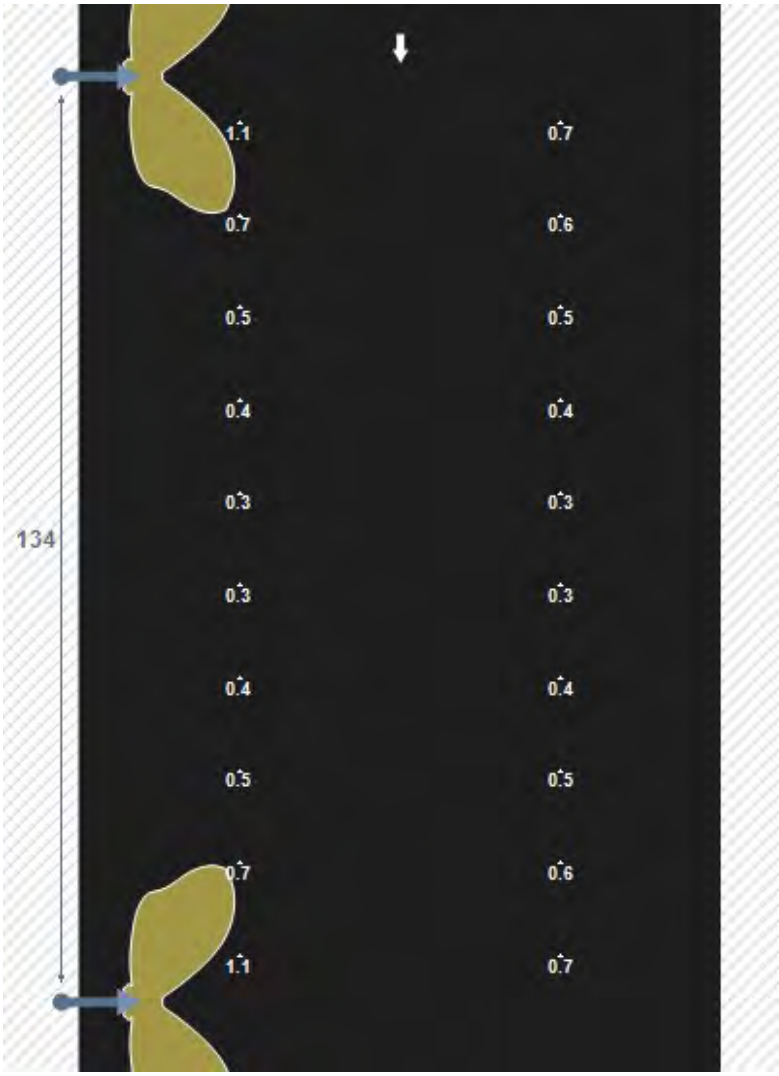

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.3	--	fc
Ave/Min:	1.7	--	
Max/Min:	3.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
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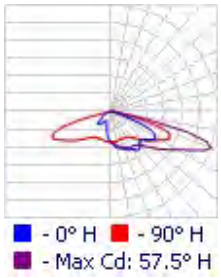
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

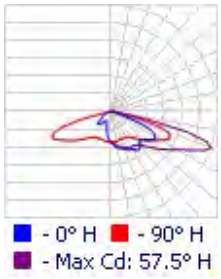
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	272 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	272 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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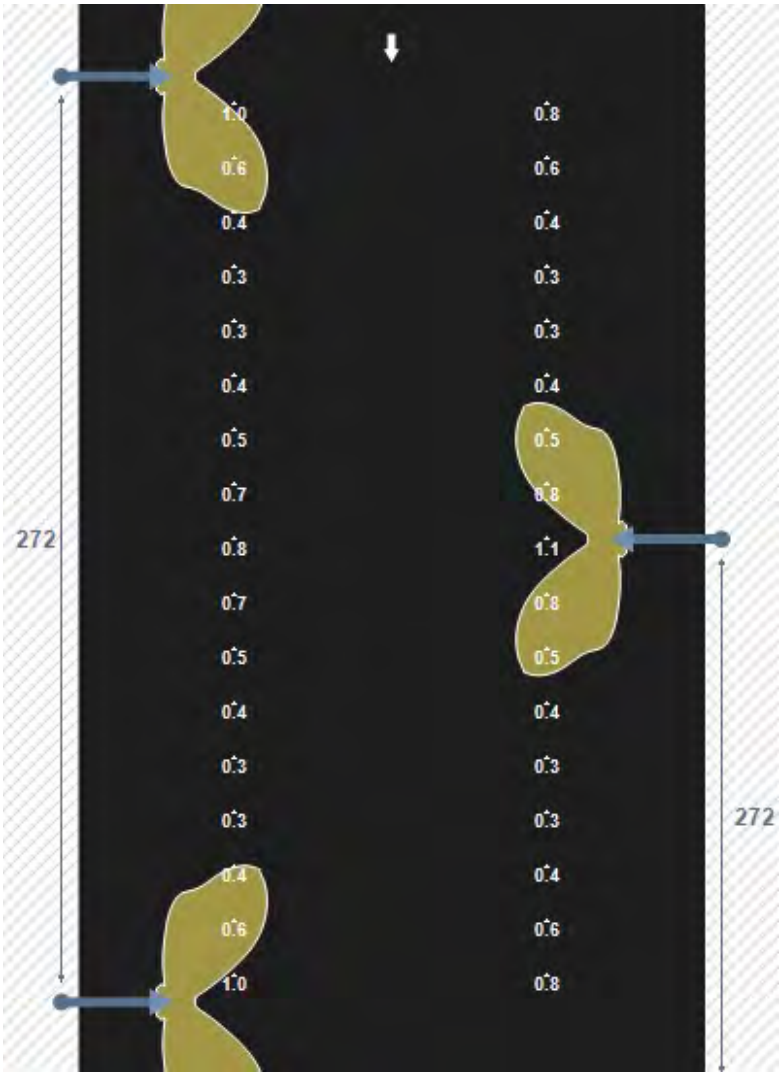

Illuminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.4	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.6	--	cd/m²	Max:	1.1	--	fc	Min	--	--	fc
Min	0.3	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	1.8	--		Ev Min:	--	--	fc
Max/Min:	2.1	--		Max/Min:	3.6	--		**Bikelane**			
Lv Ratio:	0.2	--						Average:	--	--	fc
STV:	2.1	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

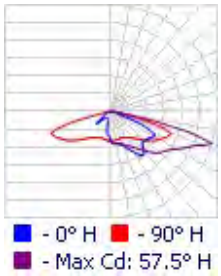
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

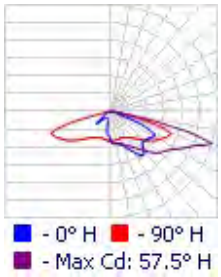
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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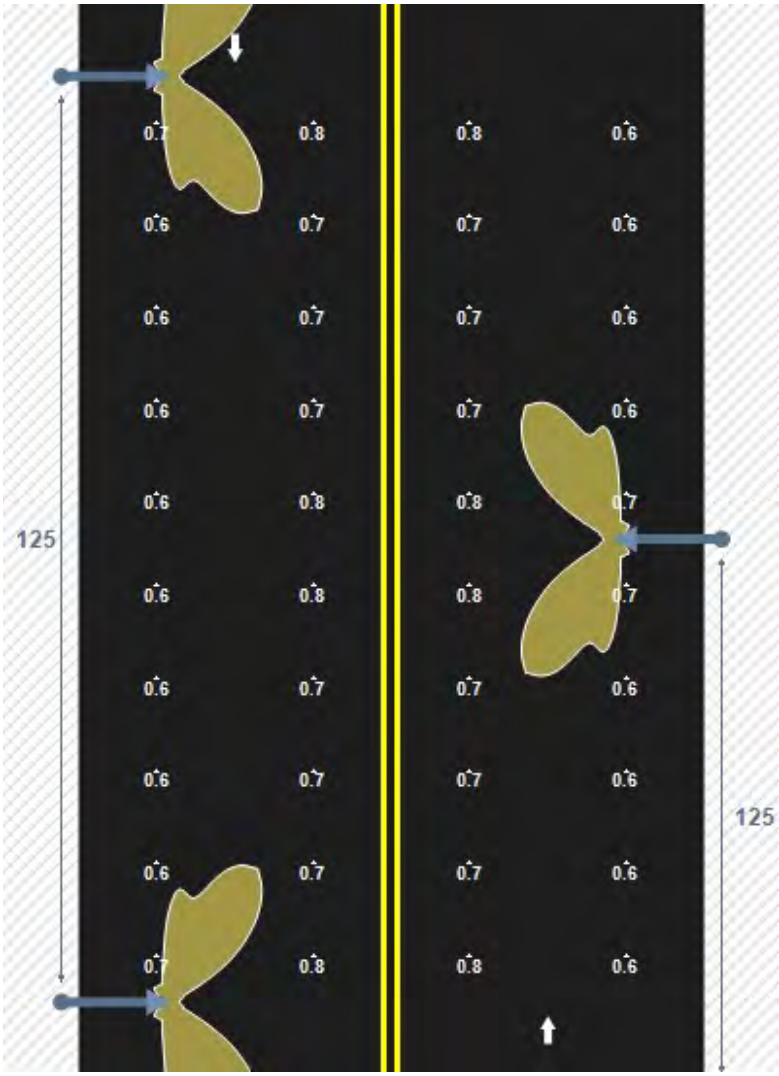

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	0.8	0.8	fc
Min	0.6	0.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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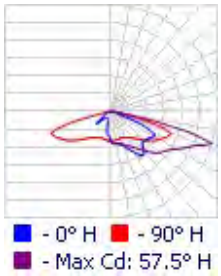
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

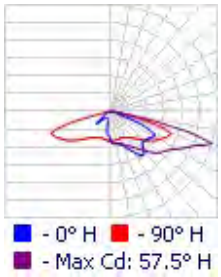
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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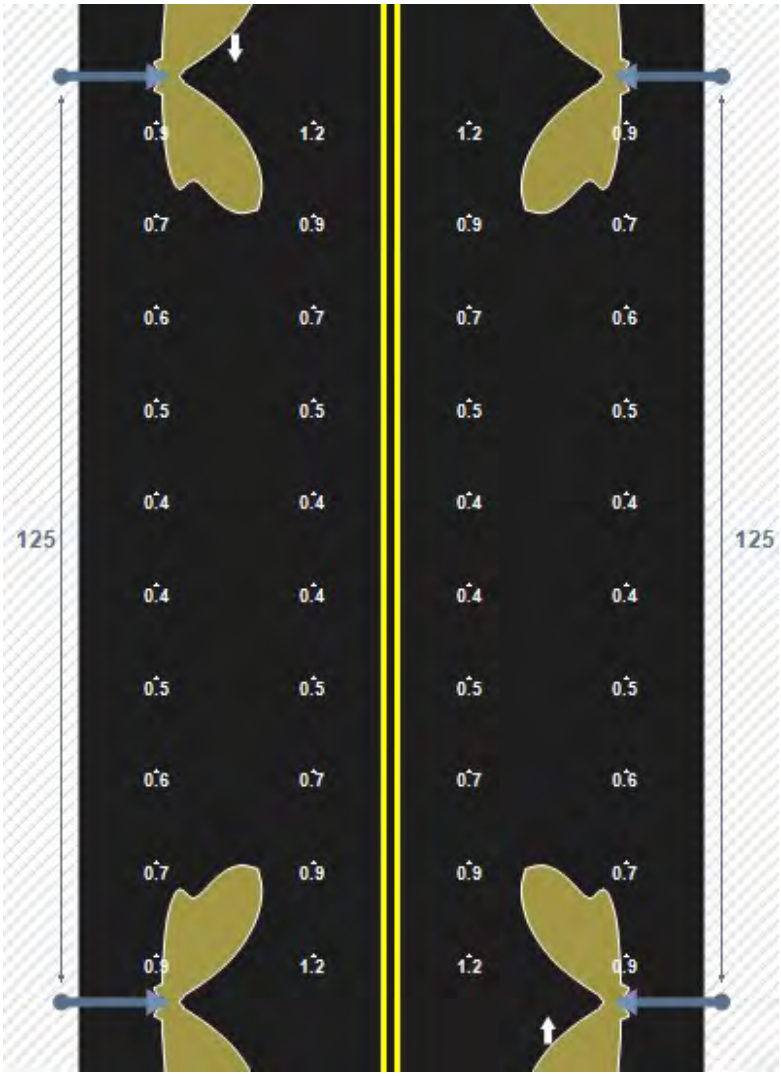

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.5	0.5	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.8	1.8	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.2	1.2	fc
Min	0.4	0.4	fc
Ave/Min:	1.7	1.7	
Max/Min:	2.9	2.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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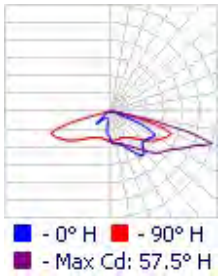
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

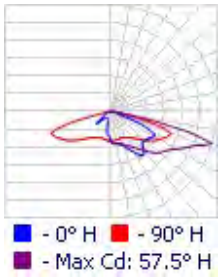
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.35 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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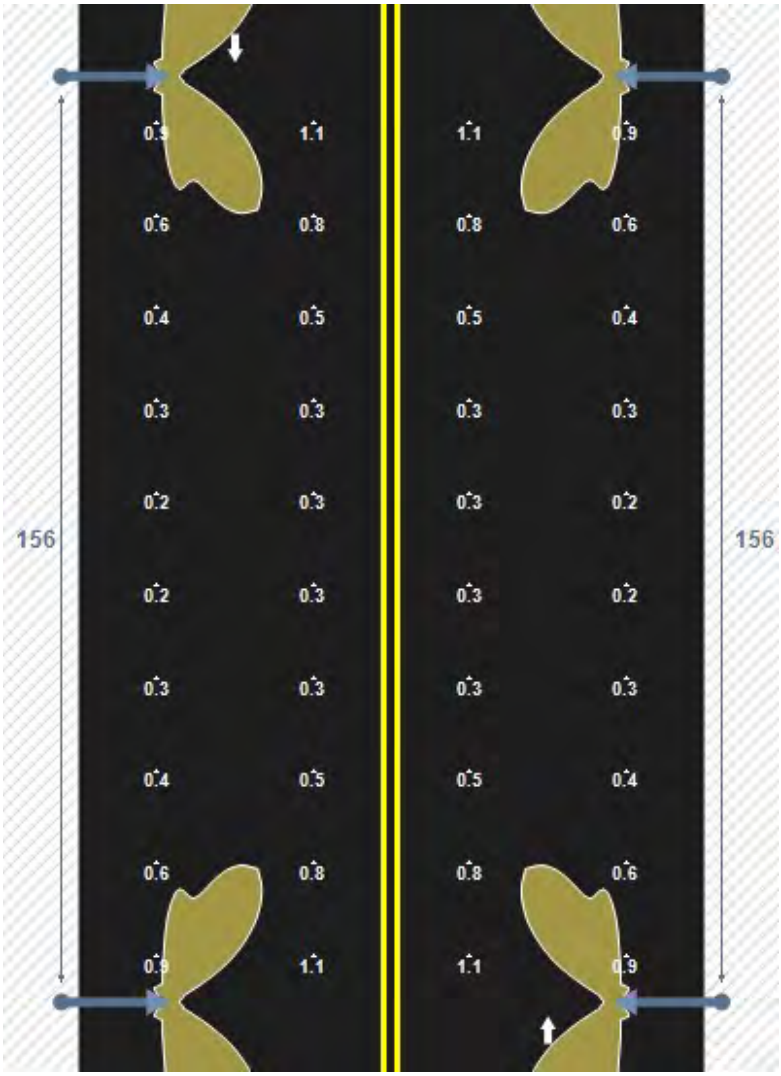

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	2.4	2.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.1	1.1	fc
Min	0.2	0.2	fc
Ave/Min:	2.3	2.3	
Max/Min:	4.7	4.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

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Project Description

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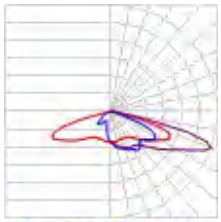
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

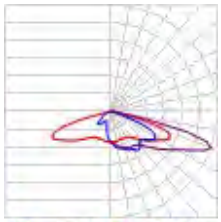
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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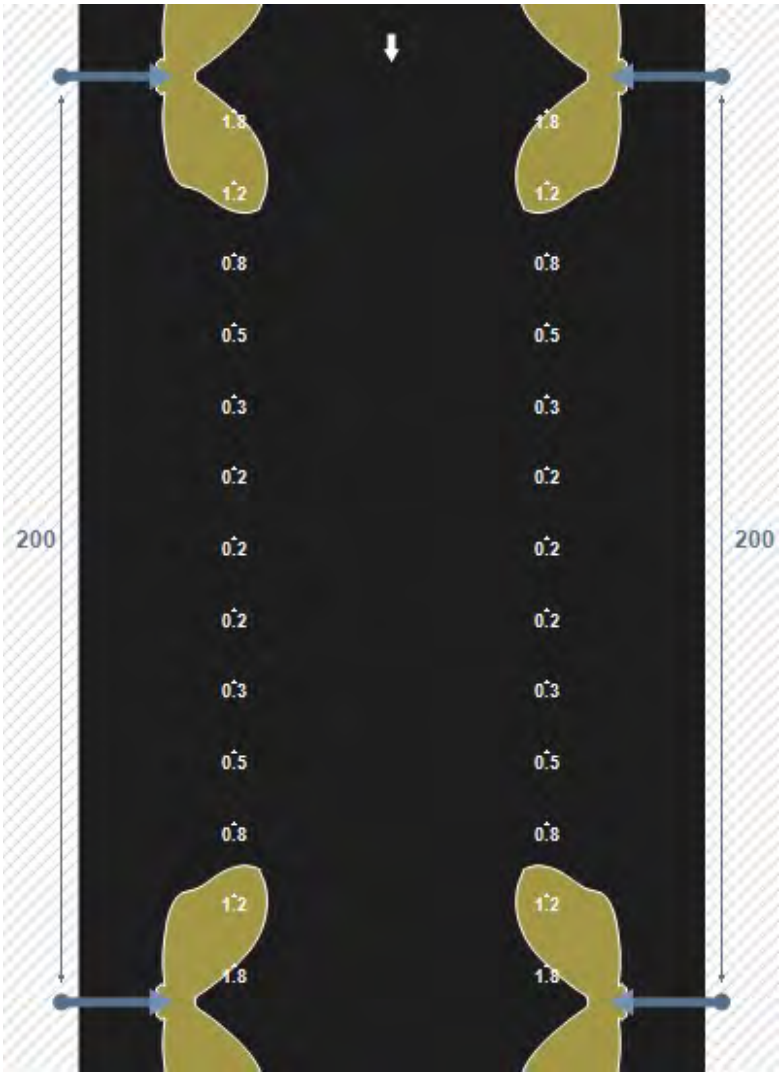

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.9	--	
Max/Min:	2.8	--	
Lv Ratio:	0.3	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.8	--	fc
Min	0.2	--	fc
Ave/Min:	4.6	--	
Max/Min:	11.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

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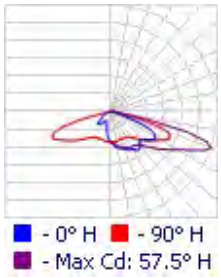
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

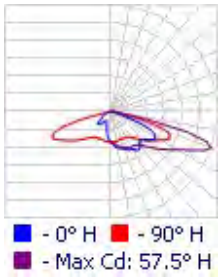
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	177.28 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	177.28 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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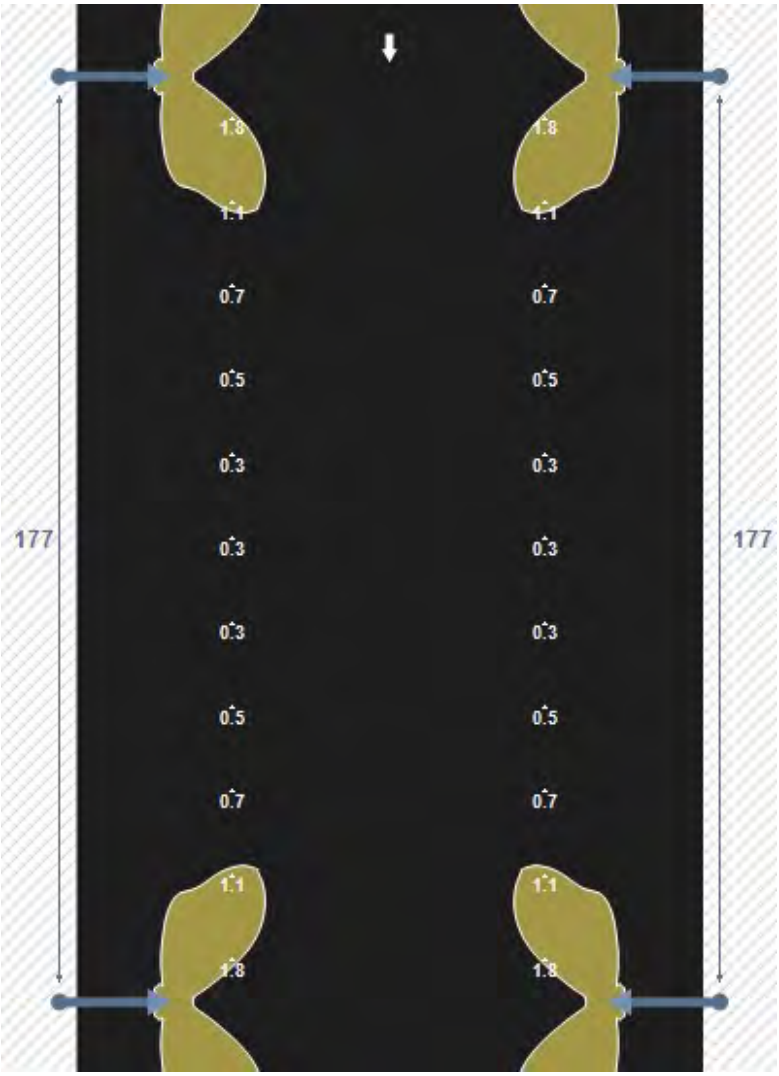

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	3.7	--	

Illuminance	Left	Right	
Average:	0.8	--	fc
Max:	1.8	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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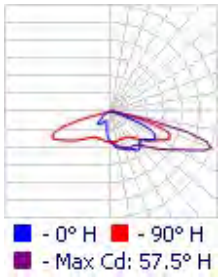
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	134.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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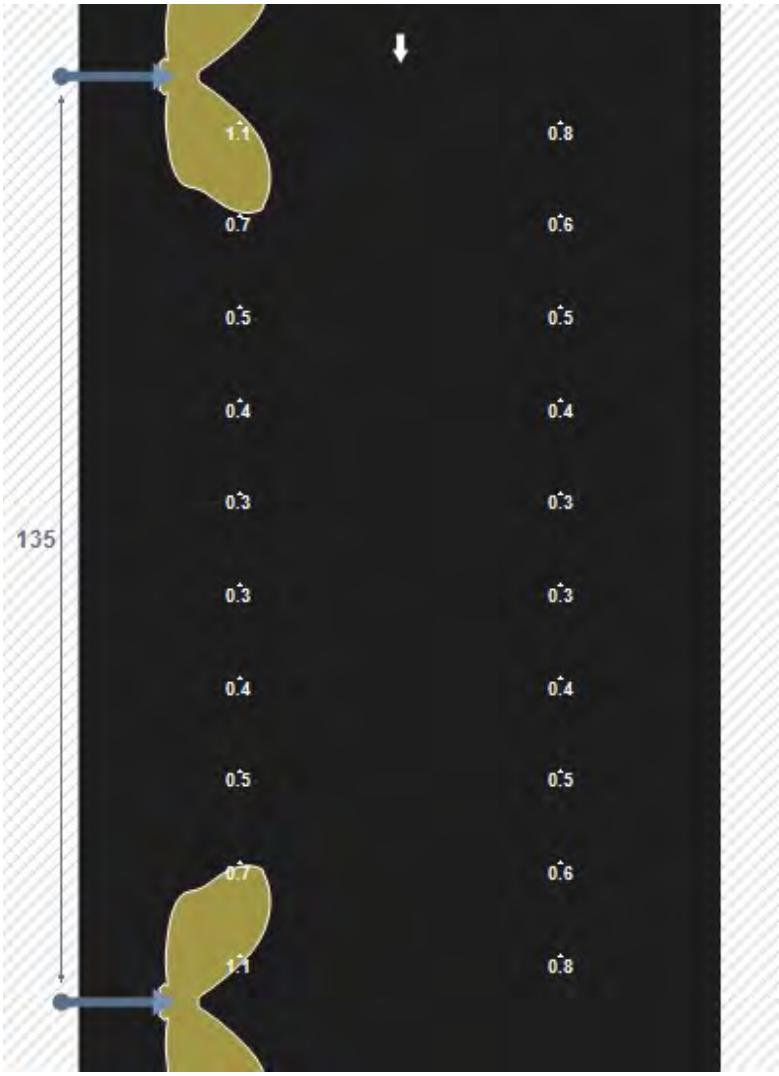

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.3	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Your Email

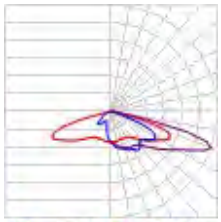
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

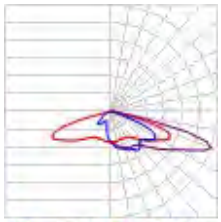
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	264.7 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	264.7 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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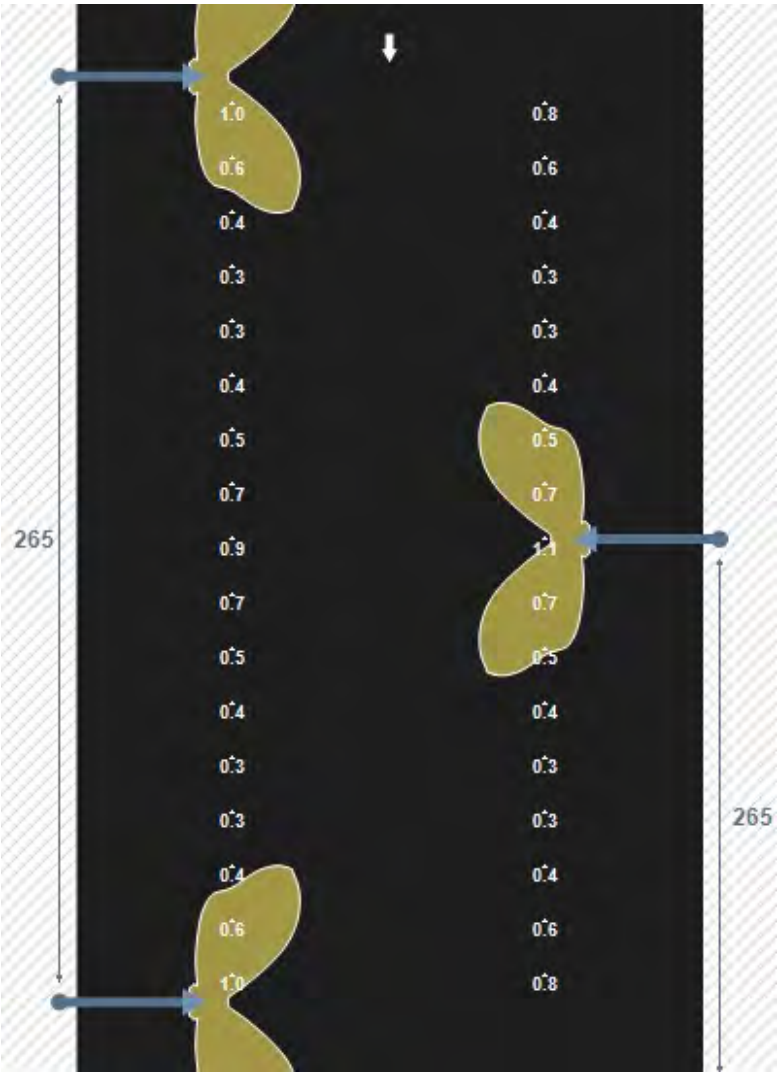

Illuminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.4	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.6	--	cd/m²	Max:	1.1	--	fc	Min	--	--	fc
Min	0.3	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	1.7	--		Ev Min:	--	--	fc
Max/Min:	2.1	--		Max/Min:	3.3	--		**Bikelane**			
Lv Ratio:	0.2	--						Average:	--	--	fc
STV:	1.9	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

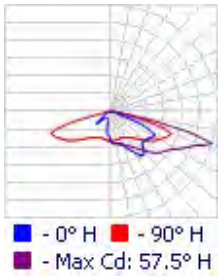
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

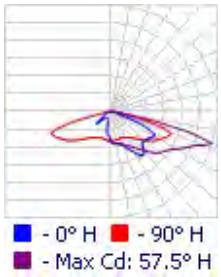
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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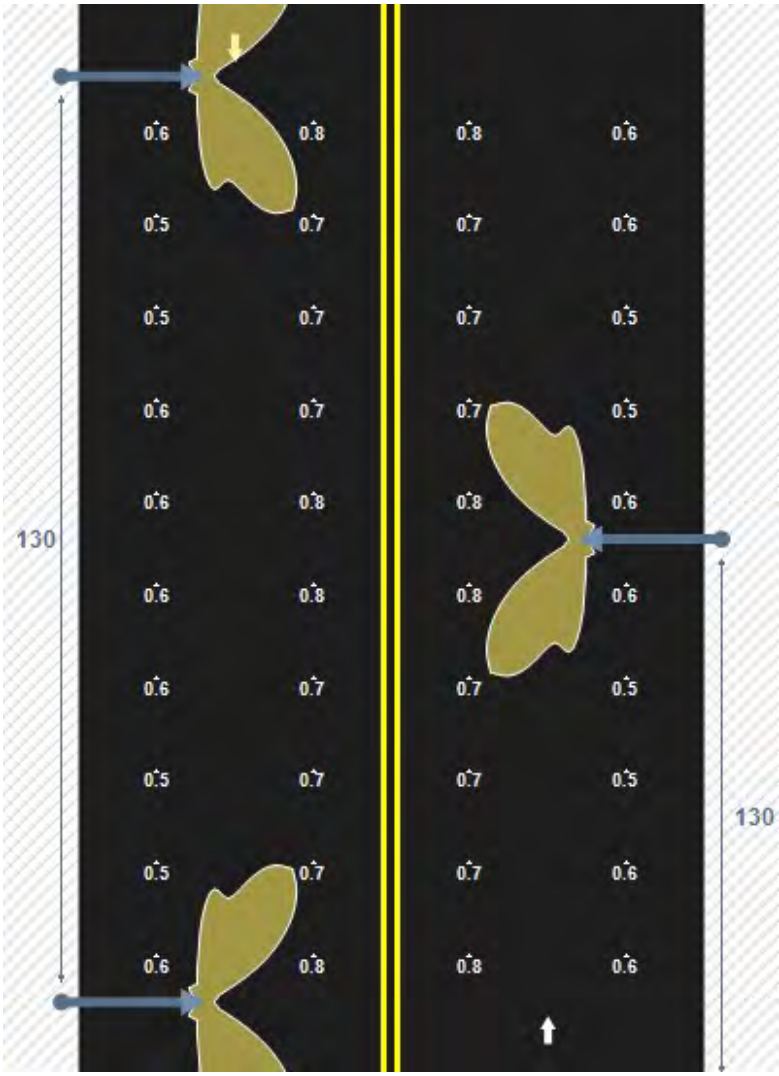

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	0.8	0.8	fc
Min	0.5	0.5	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Thursday, April 15, 2021

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Project Description

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Company Name
Your Phone
Your Email

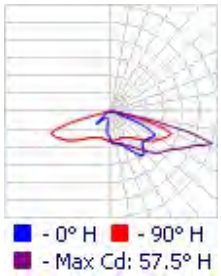
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

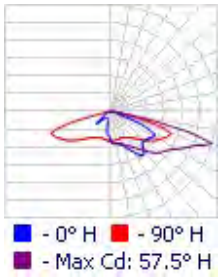
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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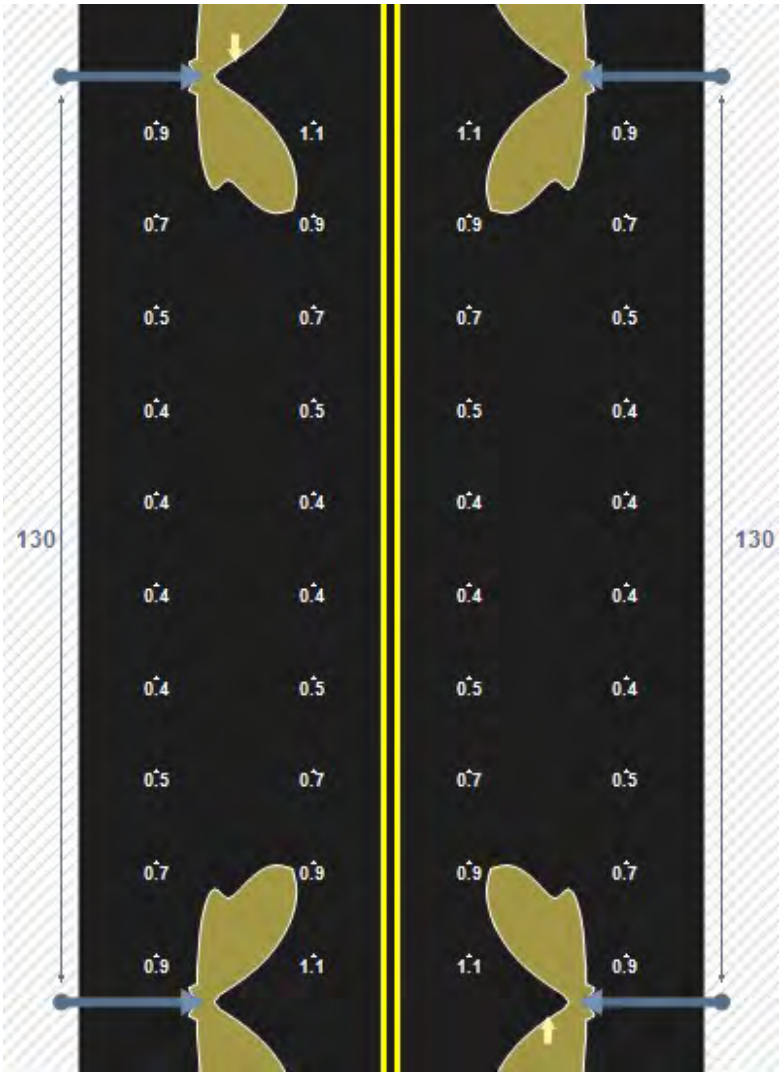

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.4	0.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	1.9	1.9	

Illuminance	Left	Right	
Average:	0.7	0.7	fc
Max:	1.2	1.2	fc
Min	0.4	0.4	fc
Ave/Min:	1.9	1.9	
Max/Min:	3.3	3.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

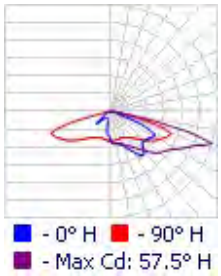
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

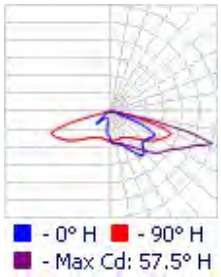
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	155.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	155.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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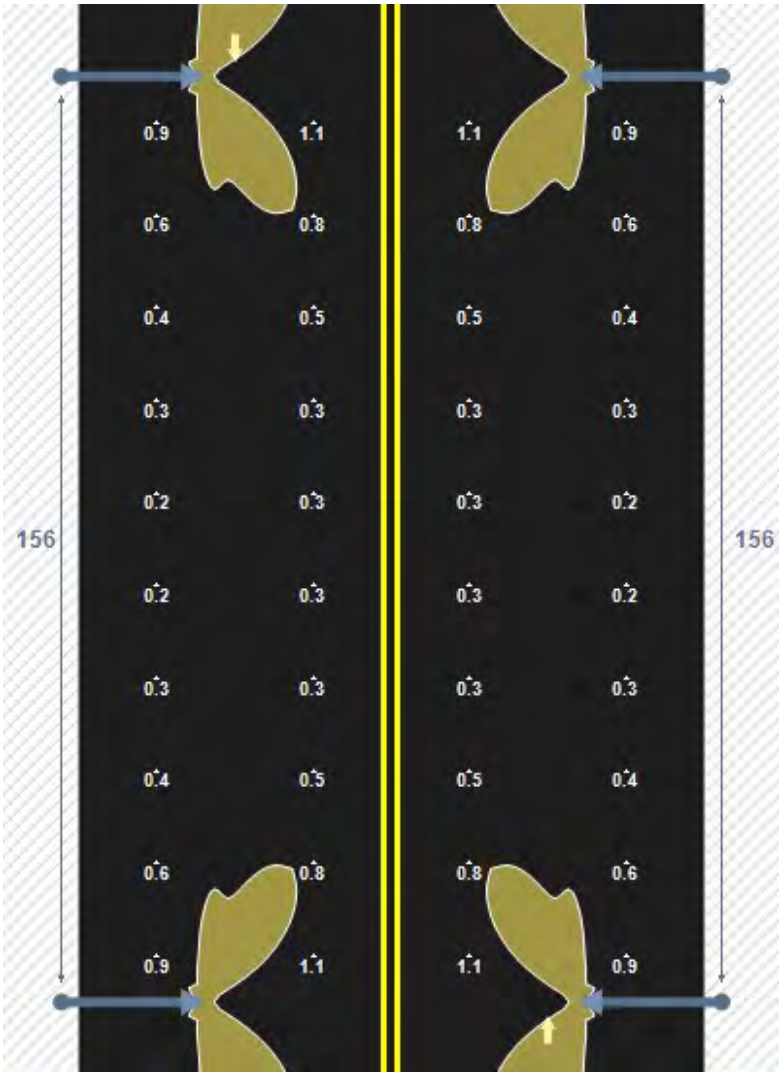

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	2.4	2.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.1	1.1	fc
Min	0.2	0.2	fc
Ave/Min:	2.5	2.5	
Max/Min:	5.1	5.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

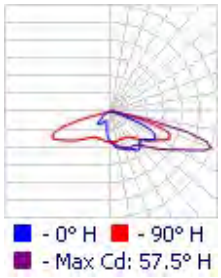
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

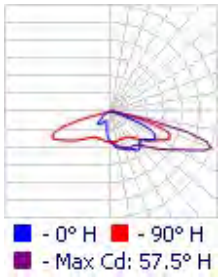
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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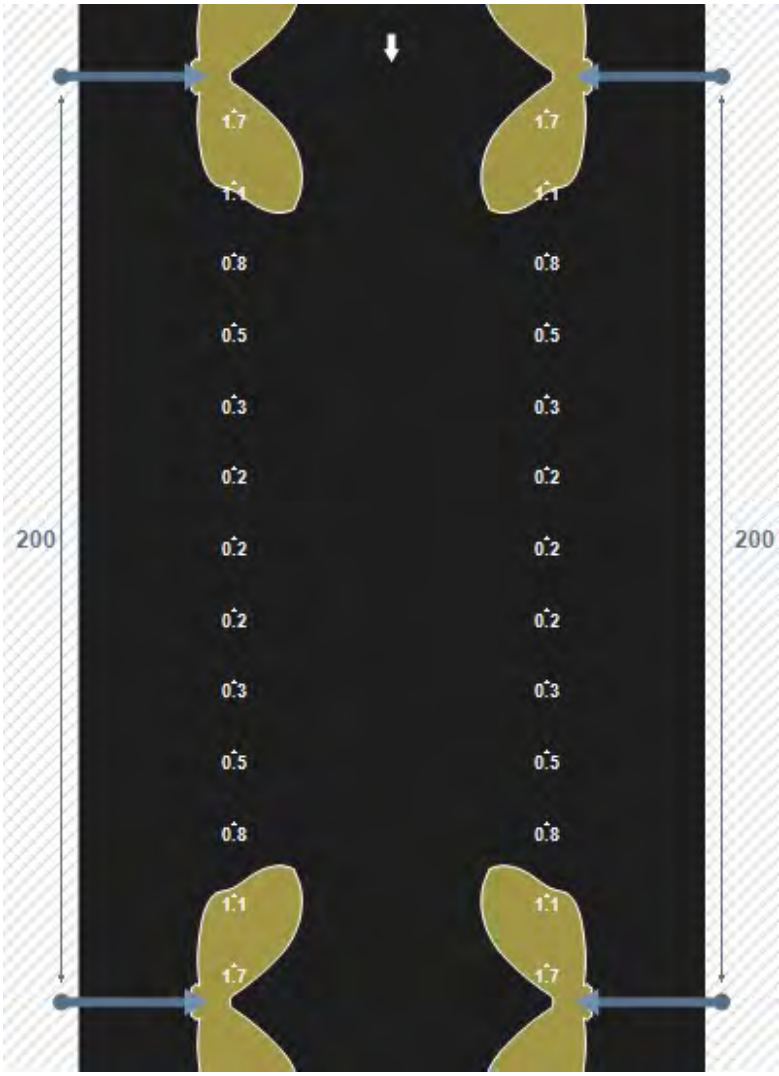

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	2	--	
Max/Min:	2.8	--	
Lv Ratio:	0.3	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.7	--	fc
Min	0.2	--	fc
Ave/Min:	4.5	--	
Max/Min:	10.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

User Name
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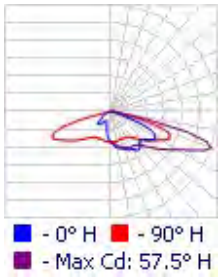
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

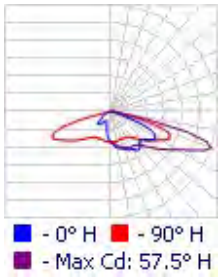
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	177.77 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	177.77 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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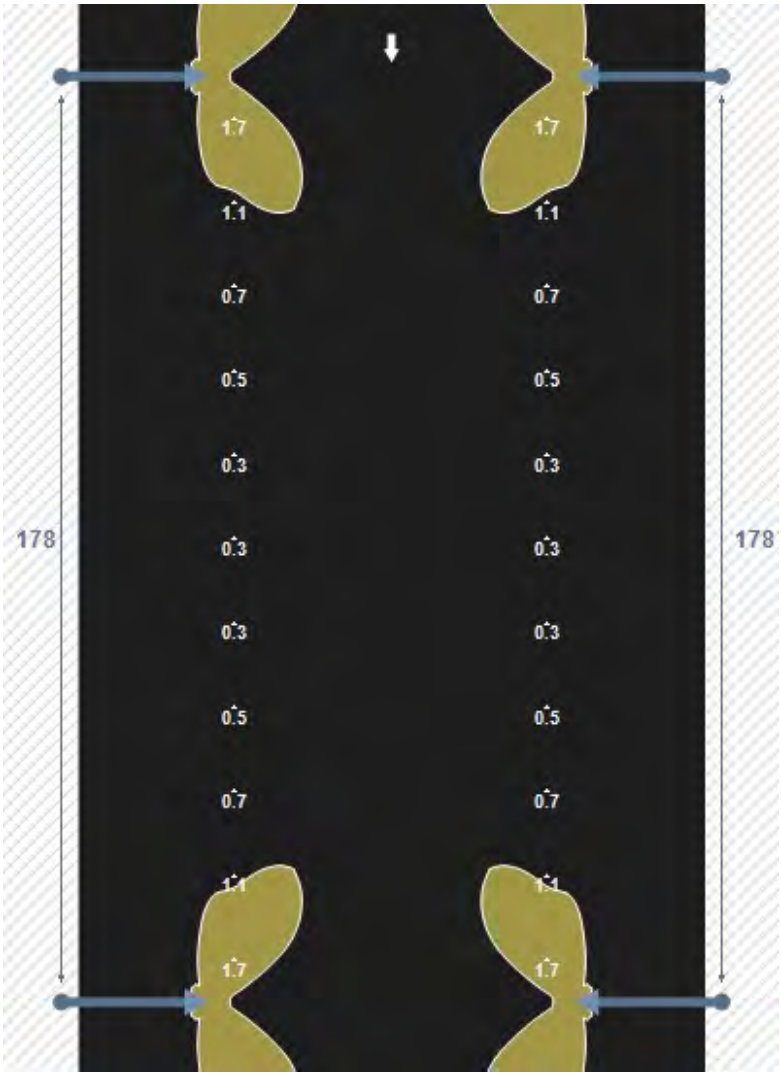

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	3.7	--	

Illuminance	Left	Right	
Average:	0.8	--	fc
Max:	1.7	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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Company Name
Your Phone
Your Email

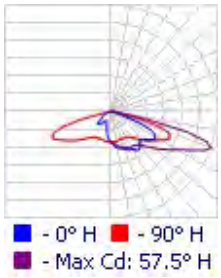
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	132.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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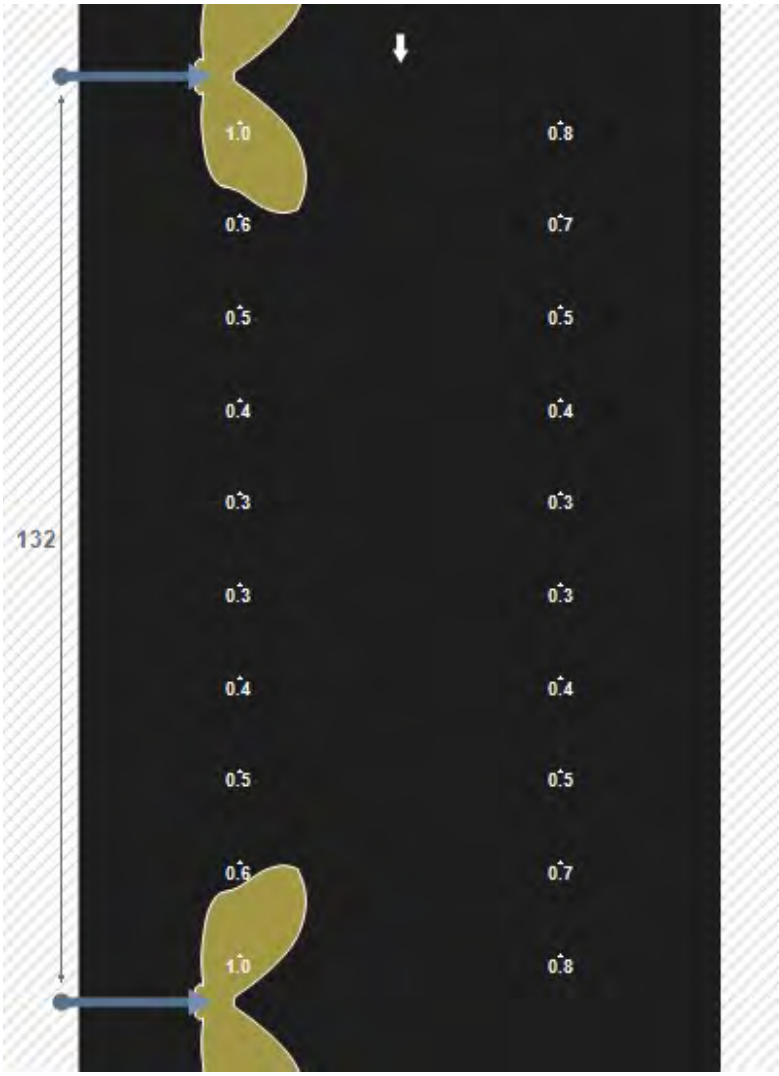

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1	--	fc
Min	0.3	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

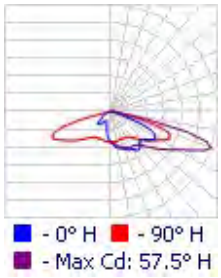
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

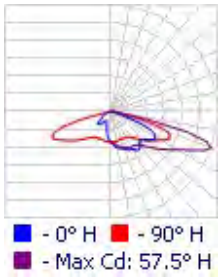
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	431.32 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	431.32 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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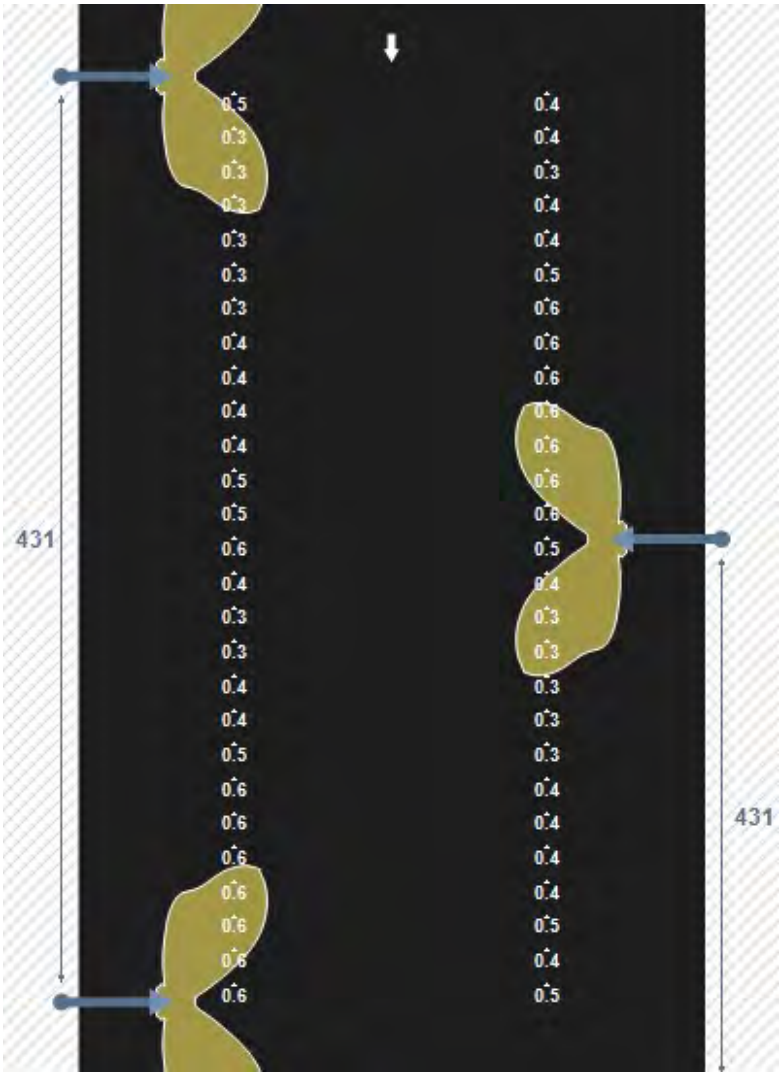

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2.9	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.2	--	fc
Ave/Min:	2.5	--	
Max/Min:	5.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

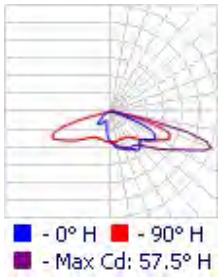
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

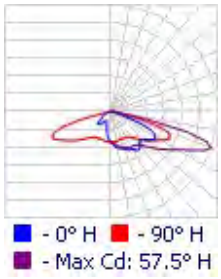
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	210.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	210.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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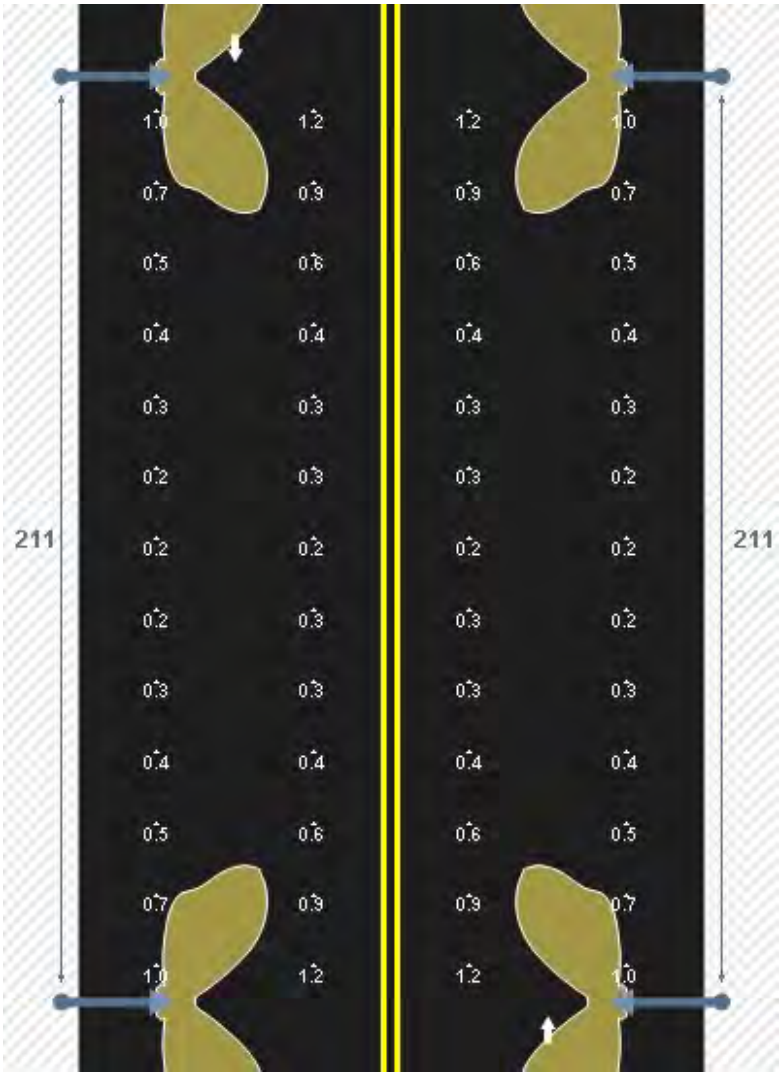

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	2.6	2.6	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.2	1.2	fc
Min	0.2	0.2	fc
Ave/Min:	2.5	2.5	
Max/Min:	5.4	5.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

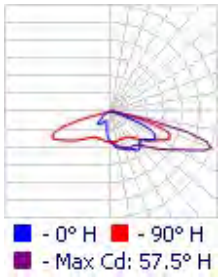
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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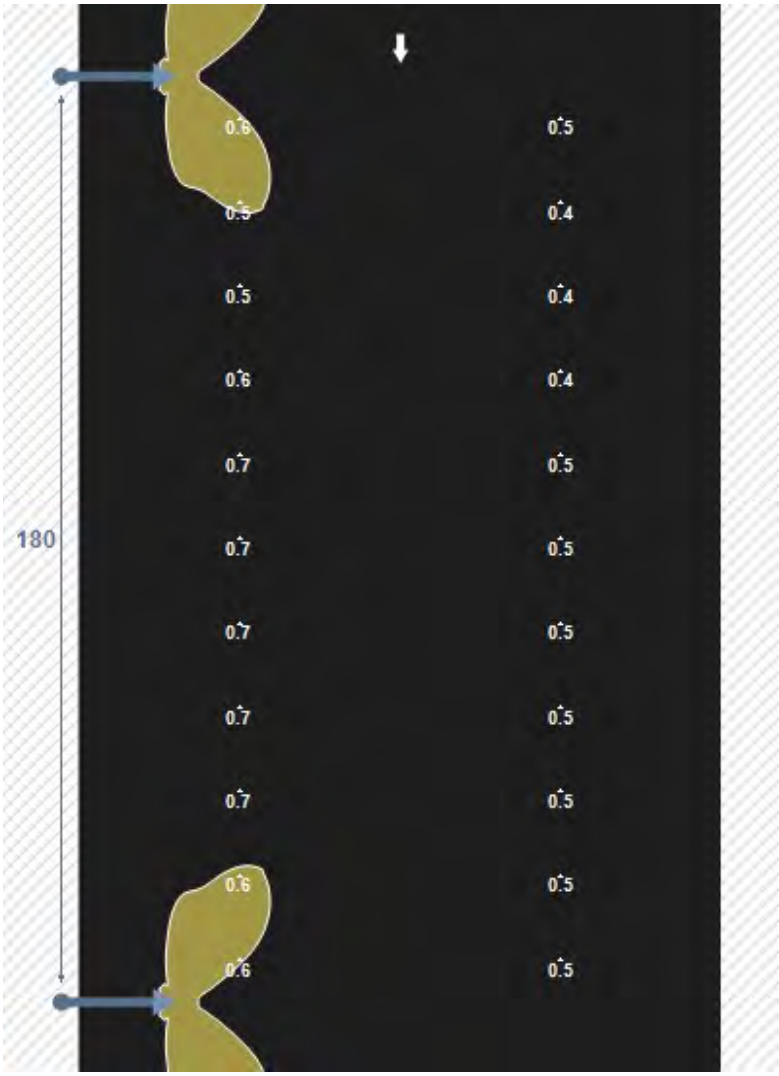

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.7	--	cd/m²	Max:	1.2	--	fc	Min	--	--	fc
Min	0.4	--	cd/m²	Min	0.4	--	fc	Ave/Min:	--	--	
Ave/Min:	1.4	--		Ave/Min:	1.9	--		Ev Min:	--	--	fc
Max/Min:	1.8	--		Max/Min:	3.5	--		**Bikelane**			
Lv Ratio:	0.2	--						Average:	--	--	fc
STV:	2.1	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

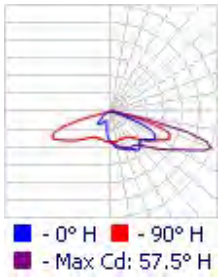
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

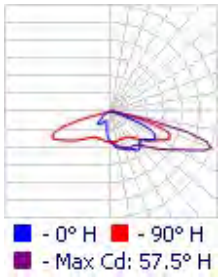
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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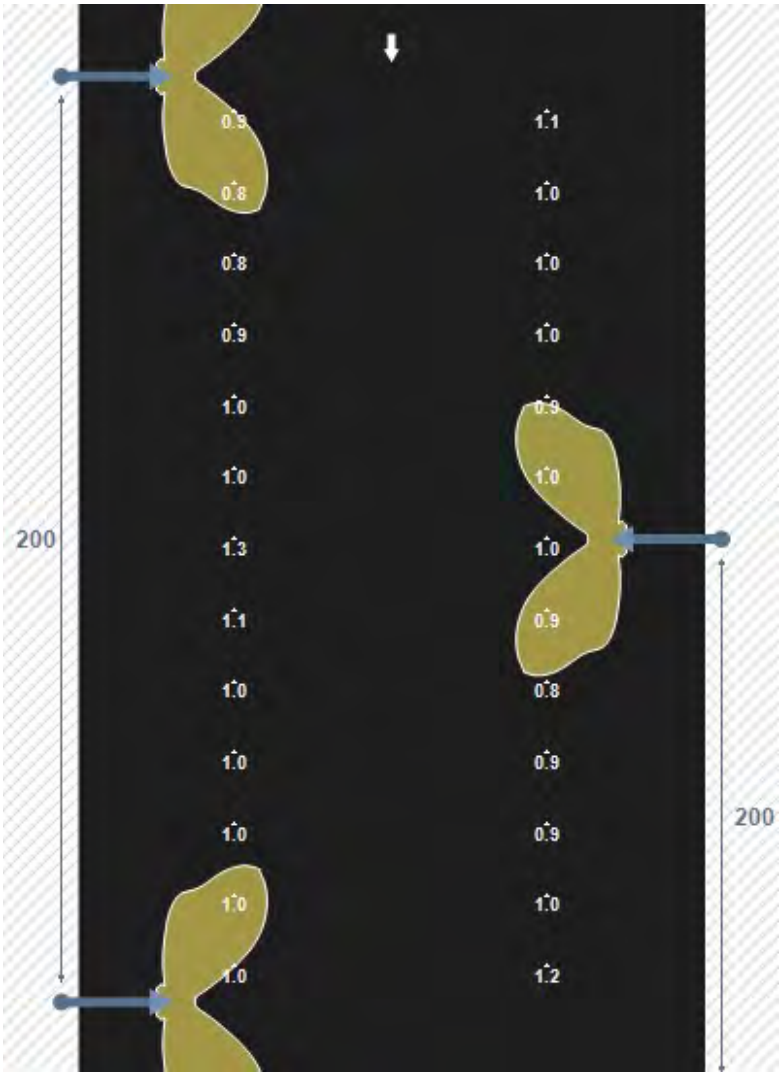

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	1	--	cd/m²	Average:	1.2	--	fc	Average:	--	--	fc
Max:	1.3	--	cd/m²	Max:	1.6	--	fc	Min	--	--	fc
Min	0.8	--	cd/m²	Min	1	--	fc	Ave/Min:	--	--	
Ave/Min:	1.2	--		Ave/Min:	1.2	--		Ev Min:	--	--	fc
Max/Min:	1.5	--		Max/Min:	1.6	--		**Bikelane**			
Lv Ratio:	0.1	--						Average:	--	--	fc
STV:	1	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

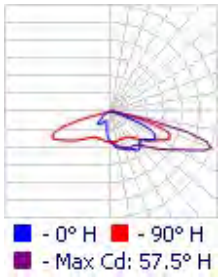
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

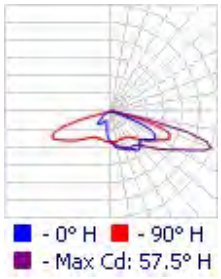
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	235.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	235.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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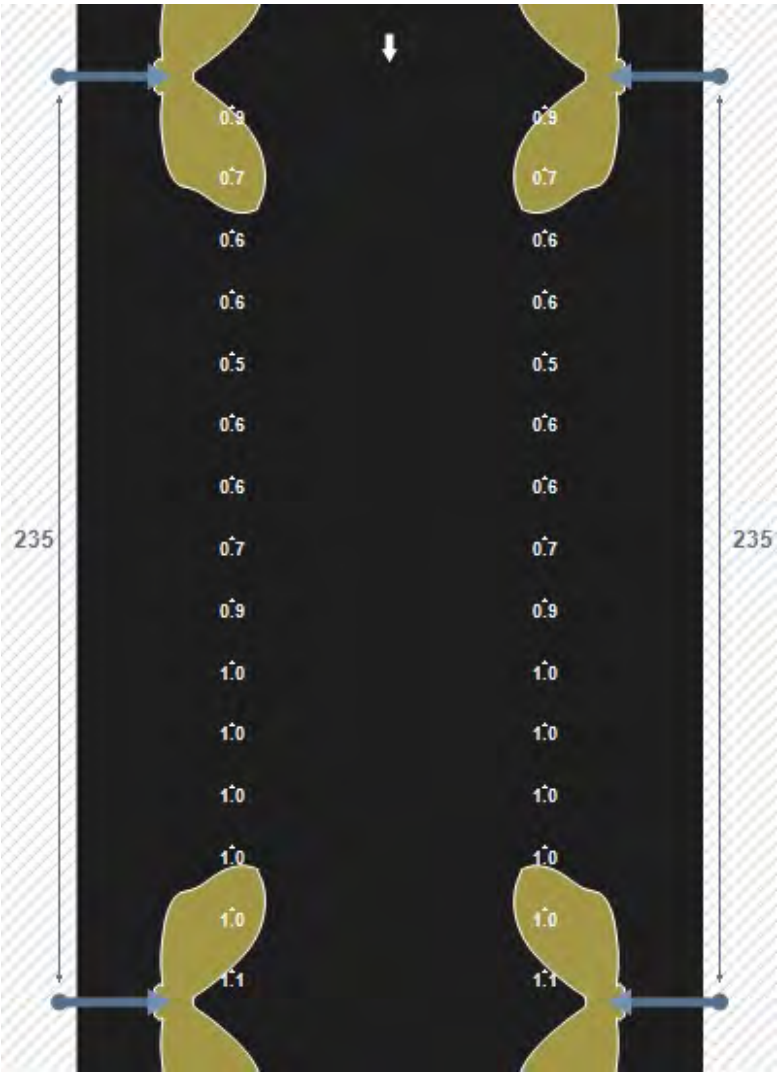

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

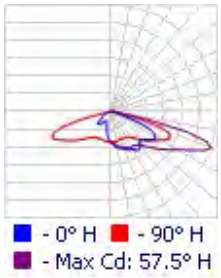
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	214.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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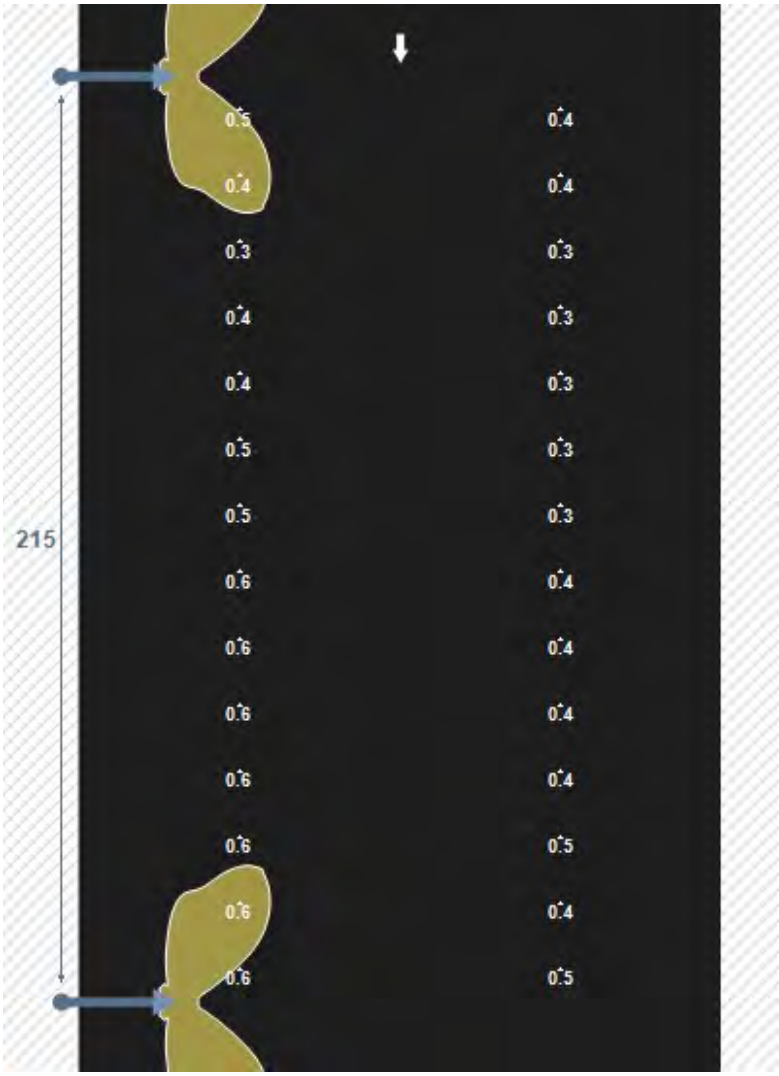

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.6	--	cd/m²	Max:	1.2	--	fc	Min	--	--	fc
Min	0.3	--	cd/m²	Min	0.2	--	fc	Ave/Min:	--	--	
Ave/Min:	1.5	--		Ave/Min:	2.5	--		Ev Min:	--	--	fc
Max/Min:	2.1	--		Max/Min:	5.6	--		**Bikelane**			
Lv Ratio:	0.2	--						Average:	--	--	fc
STV:	2.8	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

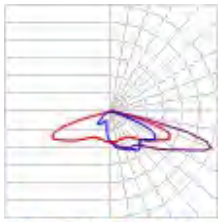
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

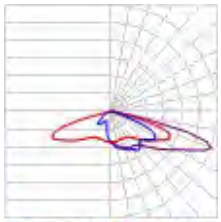
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	422.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	422.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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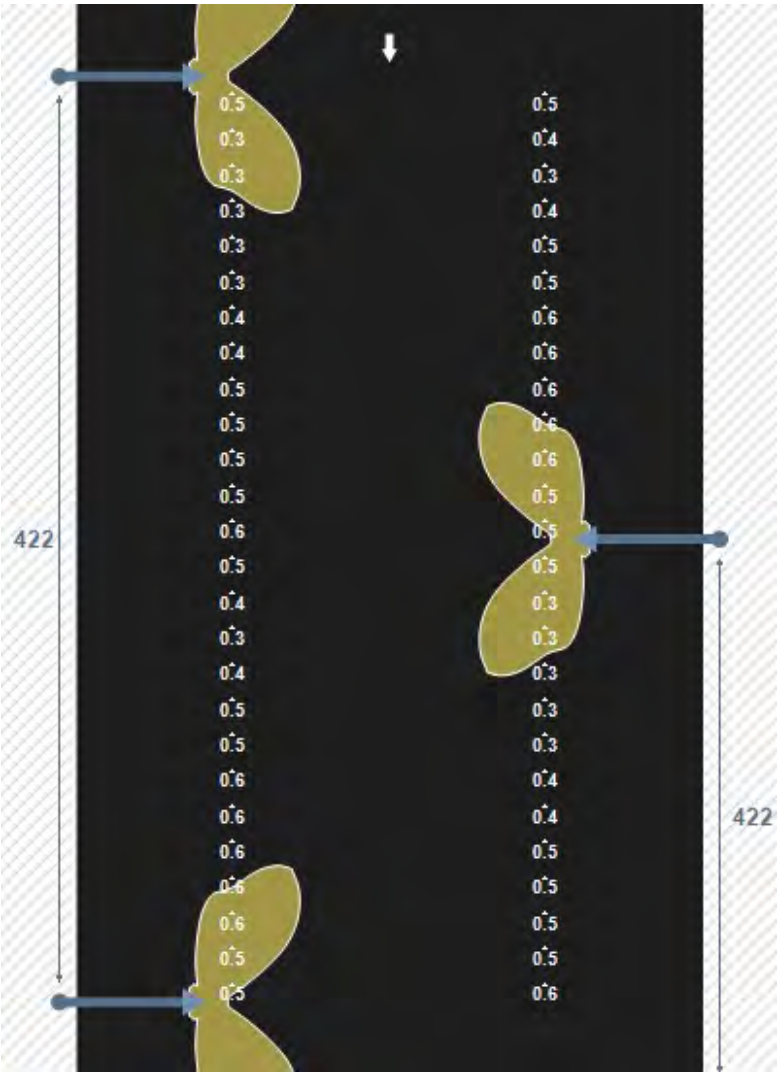

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2.7	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	4.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

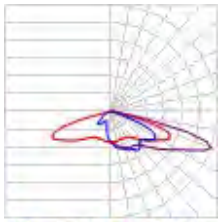
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

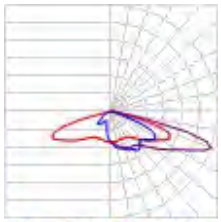
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	210.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	210.63 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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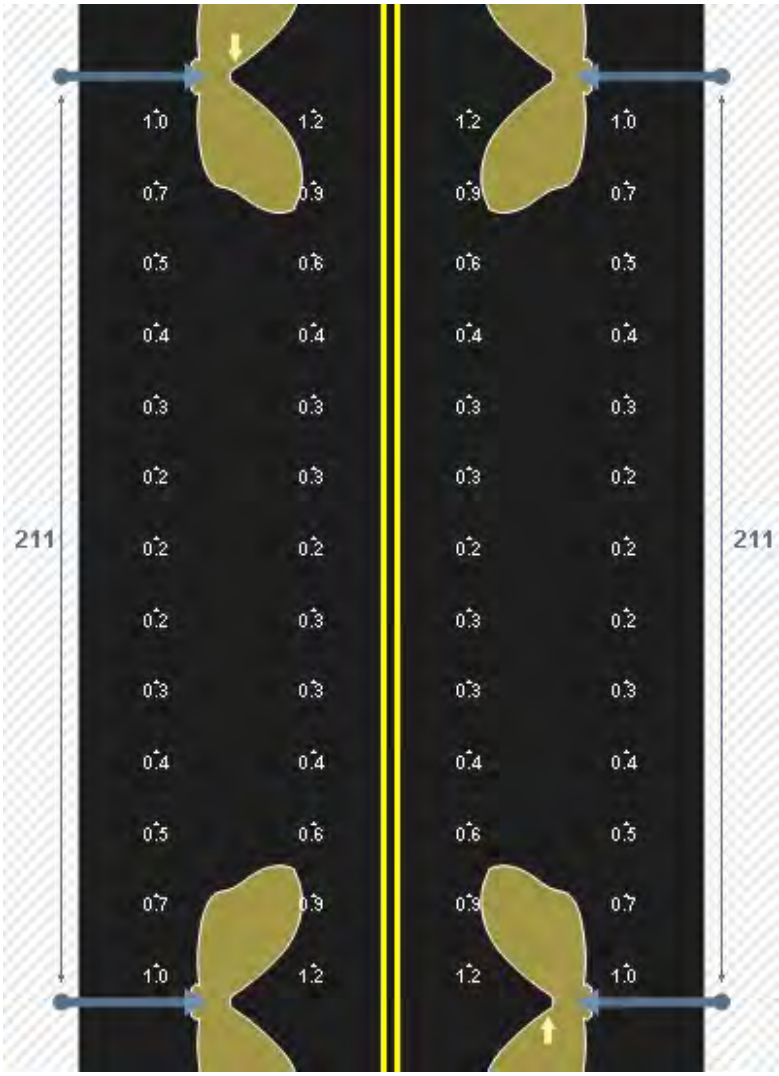

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	2.6	2.6	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.2	1.2	fc
Min	0.2	0.2	fc
Ave/Min:	2.5	2.5	
Max/Min:	5.5	5.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

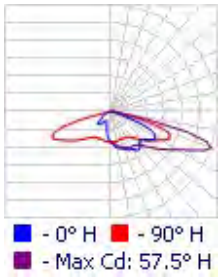
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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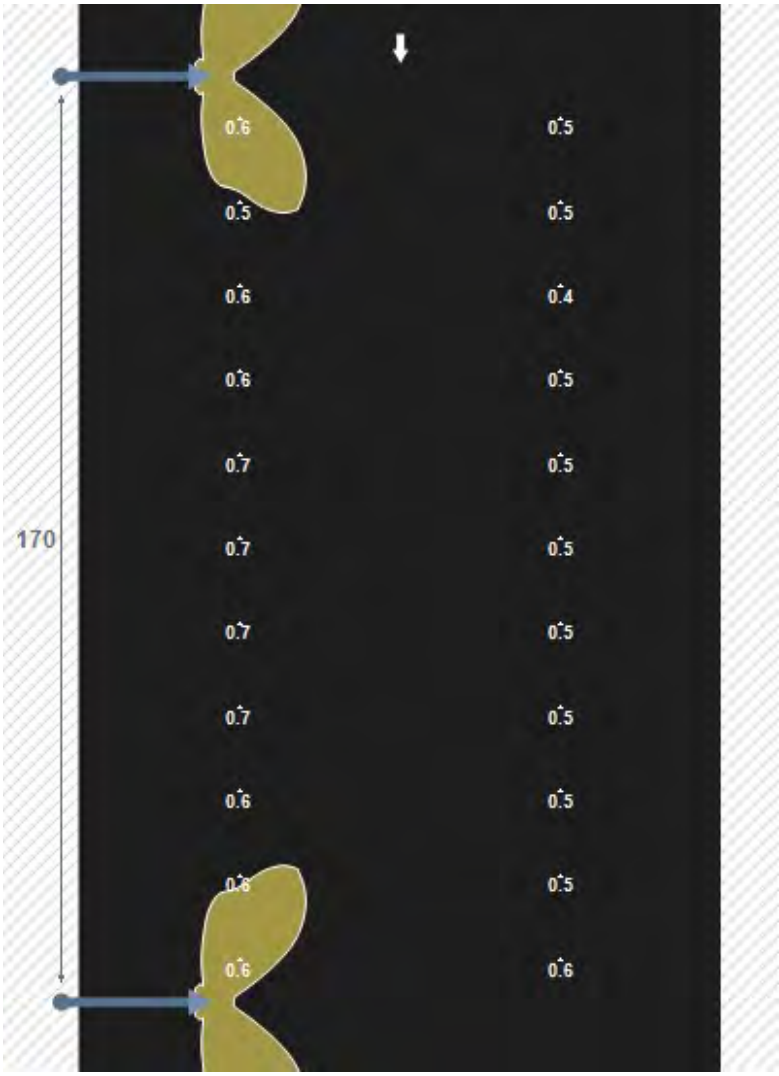

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.2	--	fc
Min	0.4	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

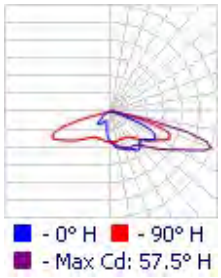
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

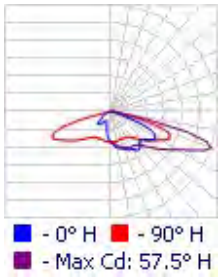
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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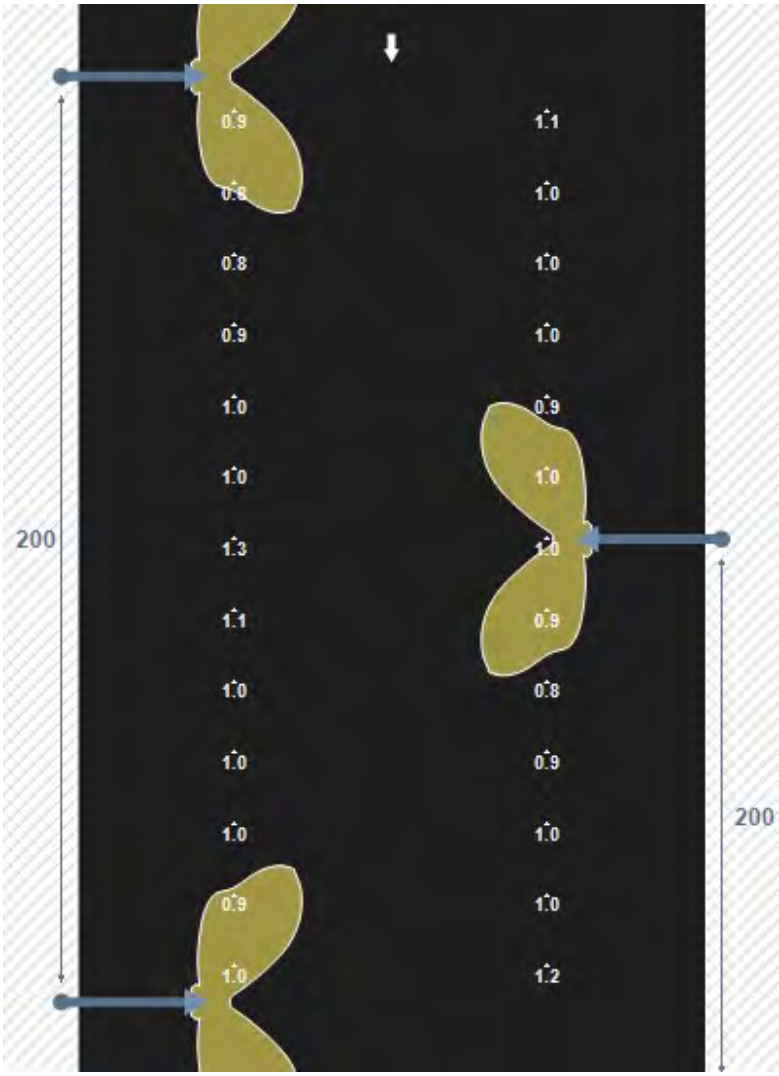

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	1	--	cd/m²	Average:	1.2	--	fc	Average:	--	--	fc
Max:	1.3	--	cd/m²	Max:	1.5	--	fc	Min	--	--	fc
Min	0.8	--	cd/m²	Min	1	--	fc	Ave/Min:	--	--	
Ave/Min:	1.2	--		Ave/Min:	1.2	--		Ev Min:	--	--	fc
Max/Min:	1.6	--		Max/Min:	1.5	--		**Bikelane**			
Lv Ratio:	0.1	--						Average:	--	--	fc
STV:	1	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

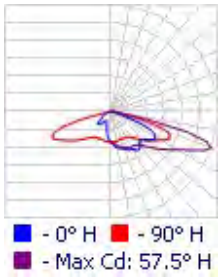
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

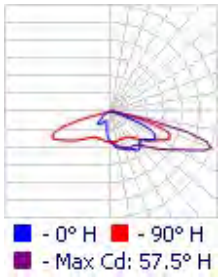
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	234.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	234.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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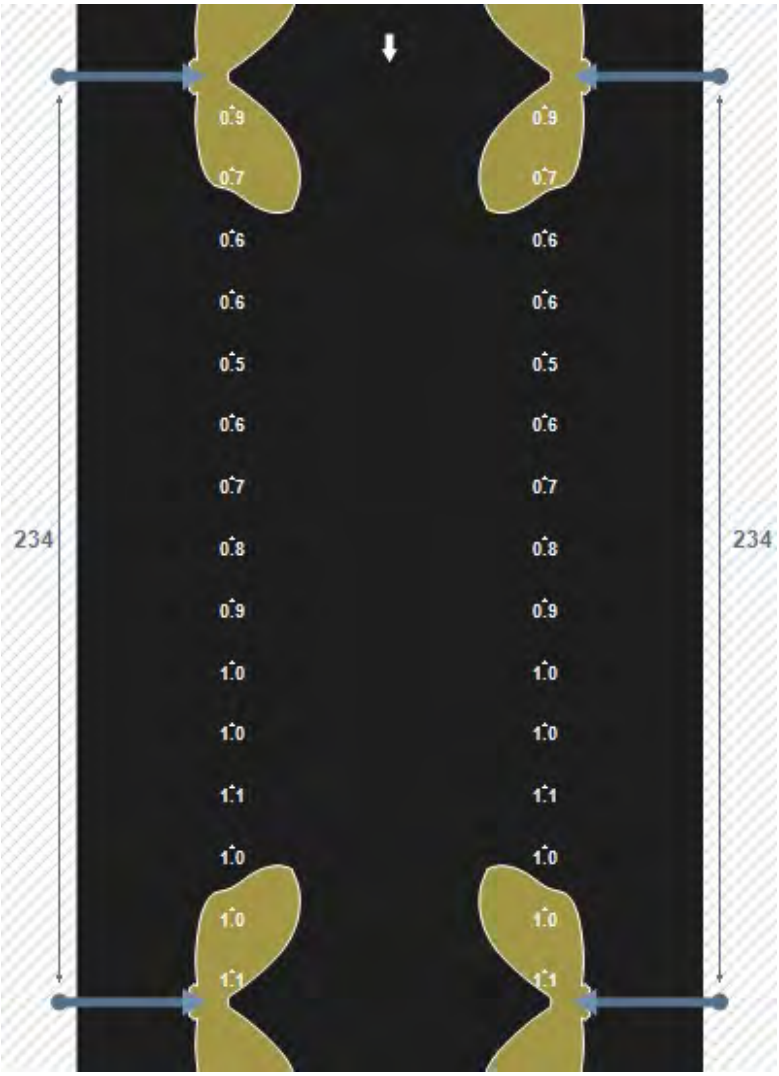

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

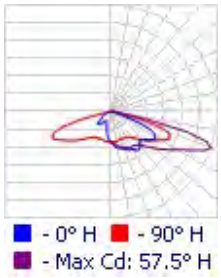
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	211.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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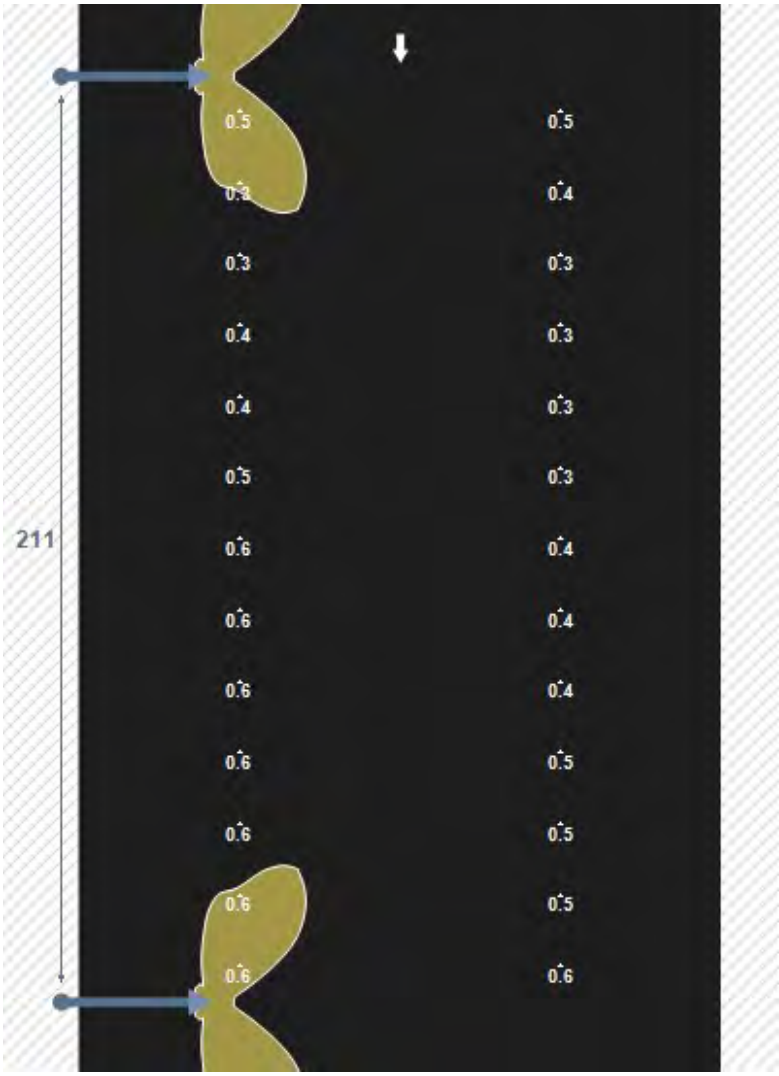

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	2.7	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.2	--	fc
Ave/Min:	2.5	--	
Max/Min:	5.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

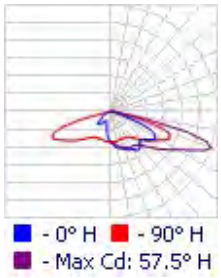
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

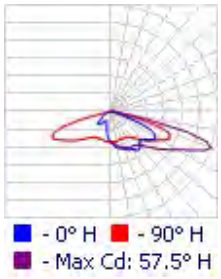
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	417.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	417.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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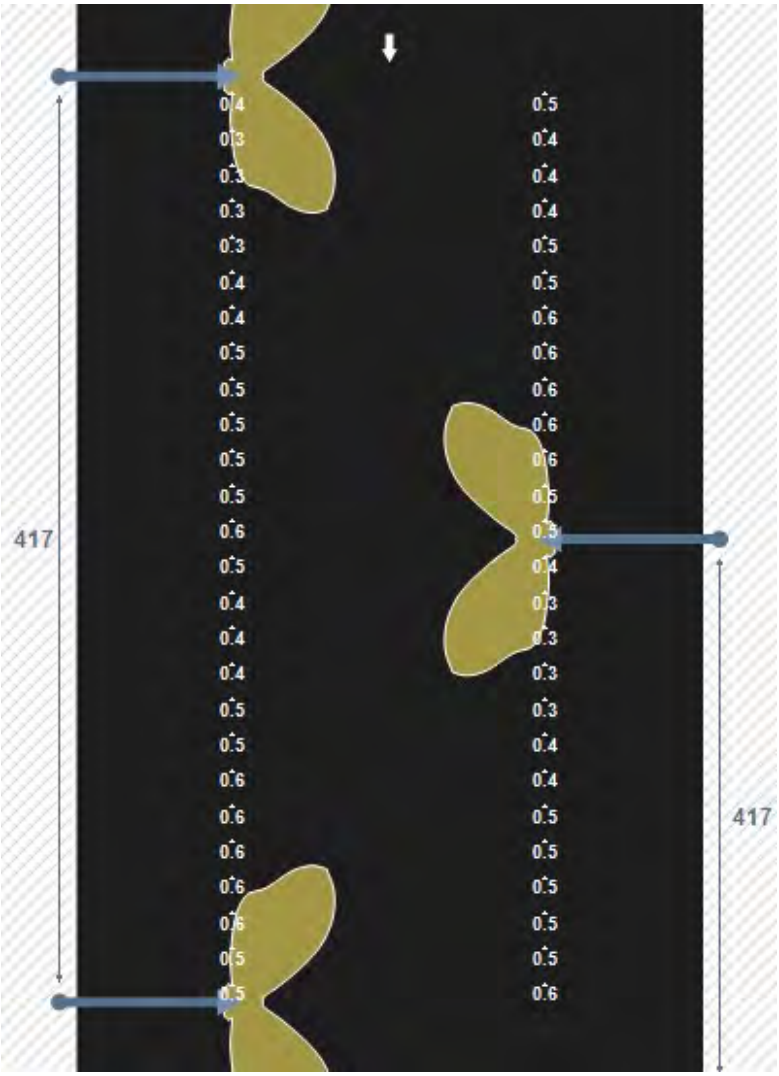

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2.6	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	4.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

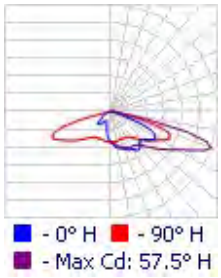
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

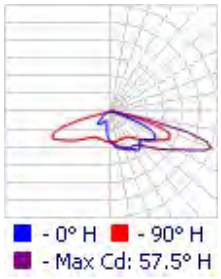
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	206.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	206.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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Visual - Roadway Tool

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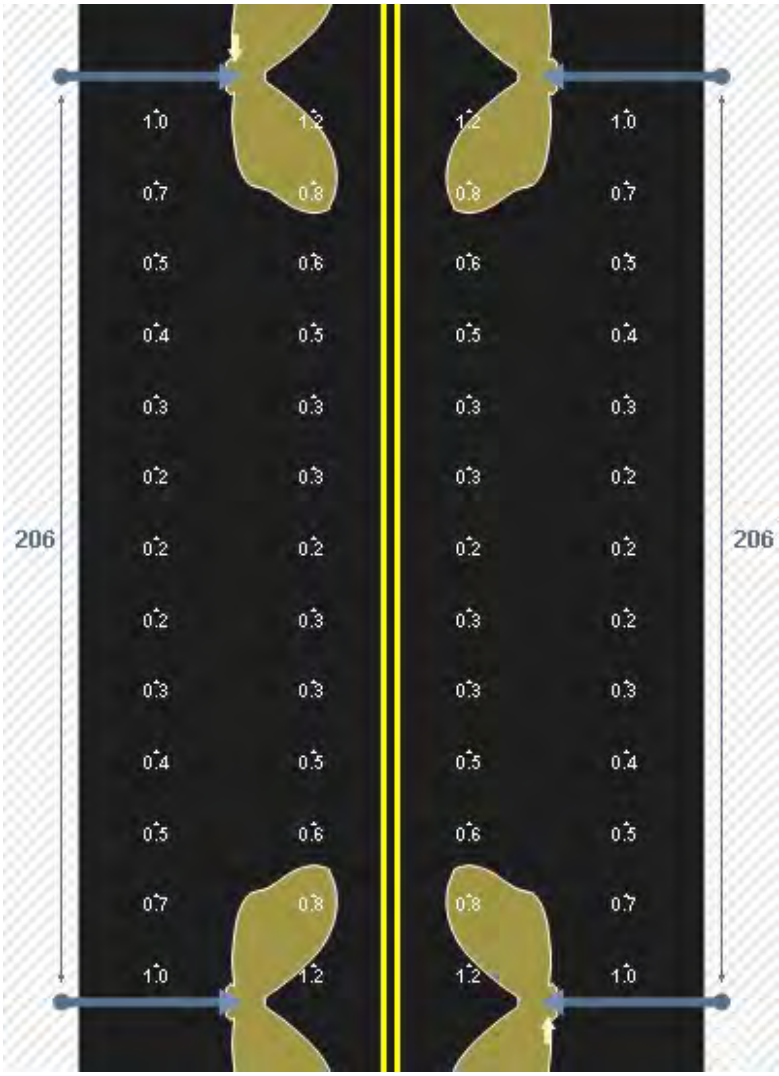

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.1	2.1	
Lv Ratio:	0.2	0.2	
STV:	2.5	2.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.2	1.2	fc
Min	0.2	0.2	fc
Ave/Min:	2.5	2.5	
Max/Min:	5.5	5.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

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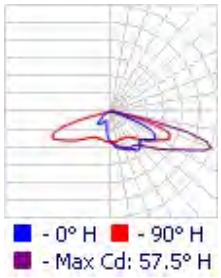
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	165 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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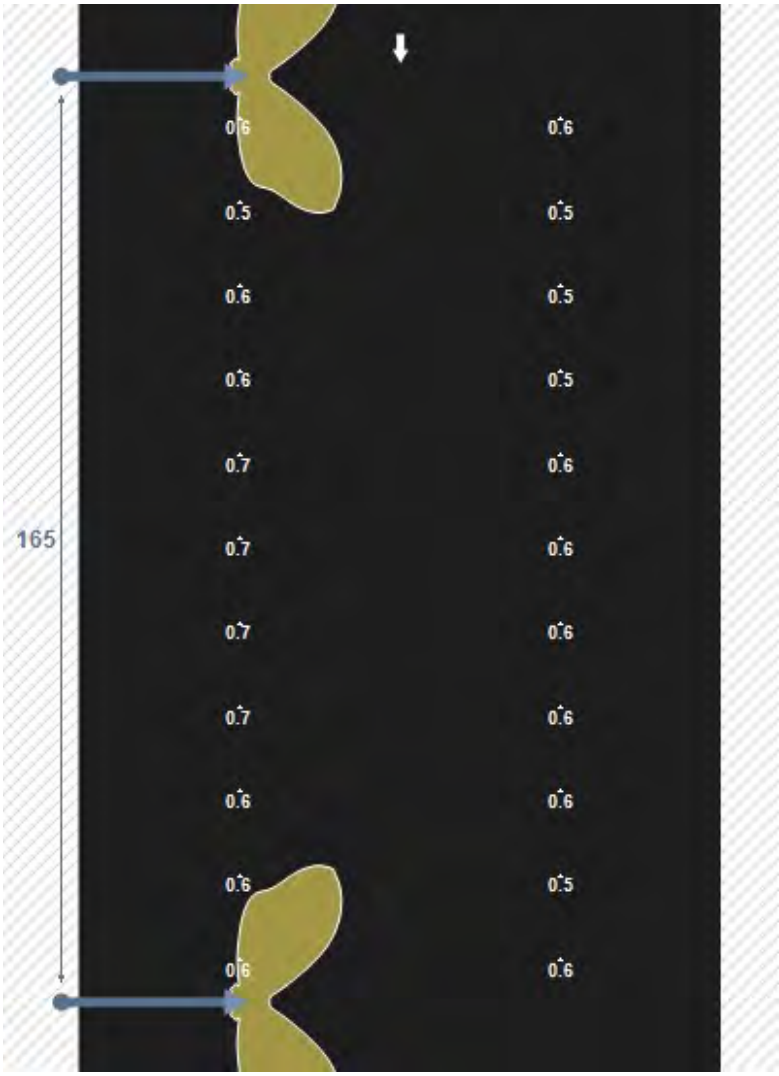

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.2	--	fc
Min	0.4	--	fc
Ave/Min:	1.8	--	
Max/Min:	3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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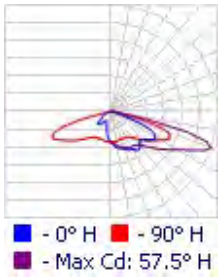
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

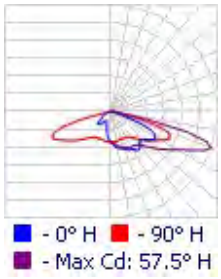
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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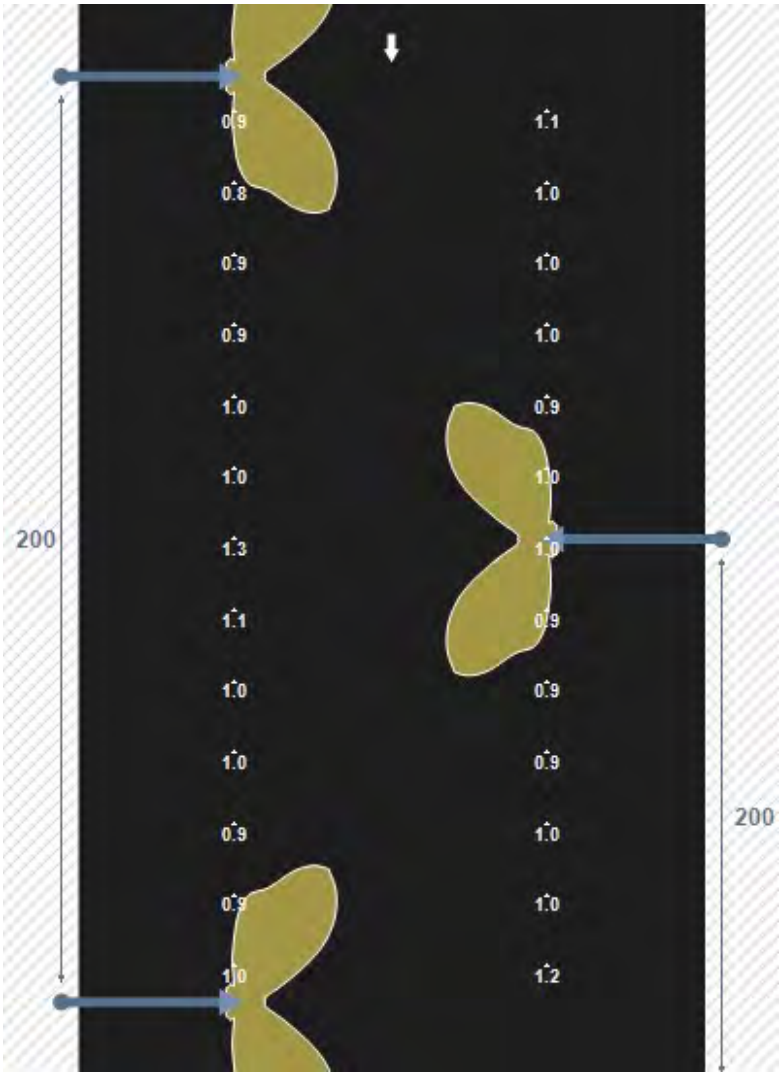

Luminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.4	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

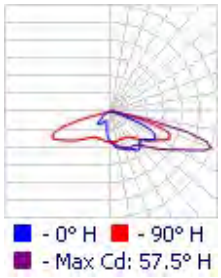
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

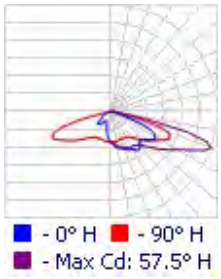
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	231.81 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	231.81 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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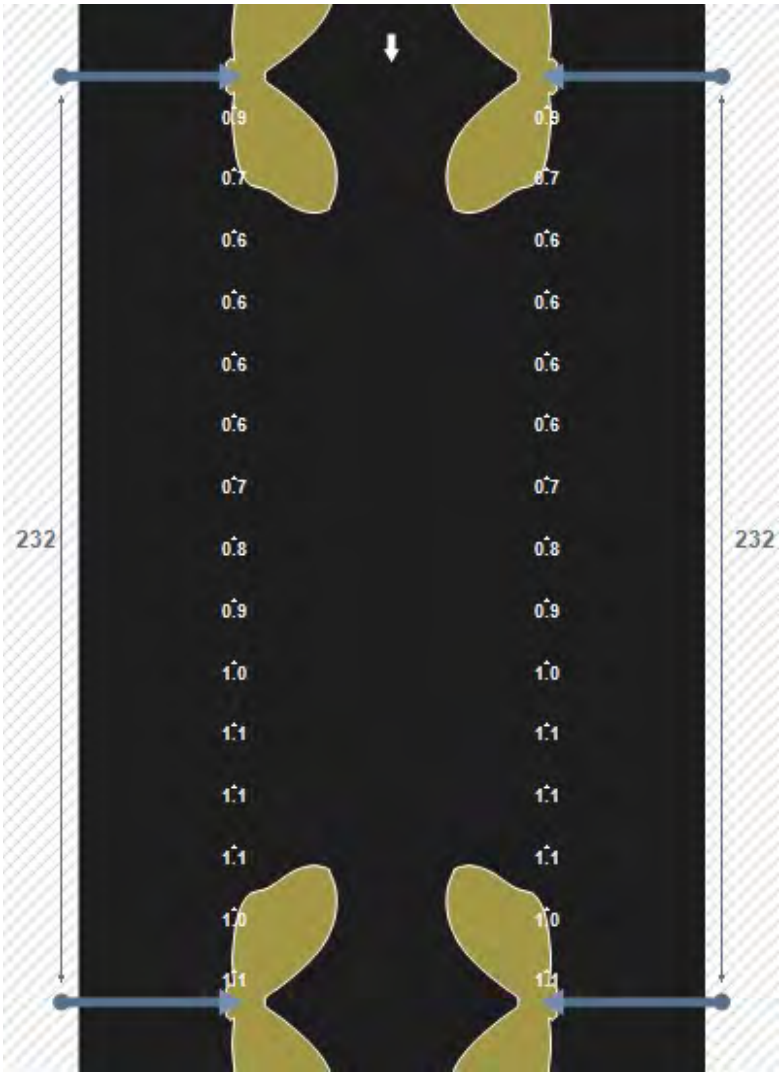

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

User Name
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Your Email

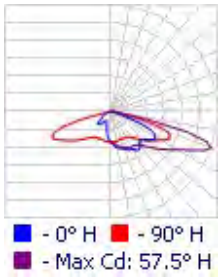
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	208.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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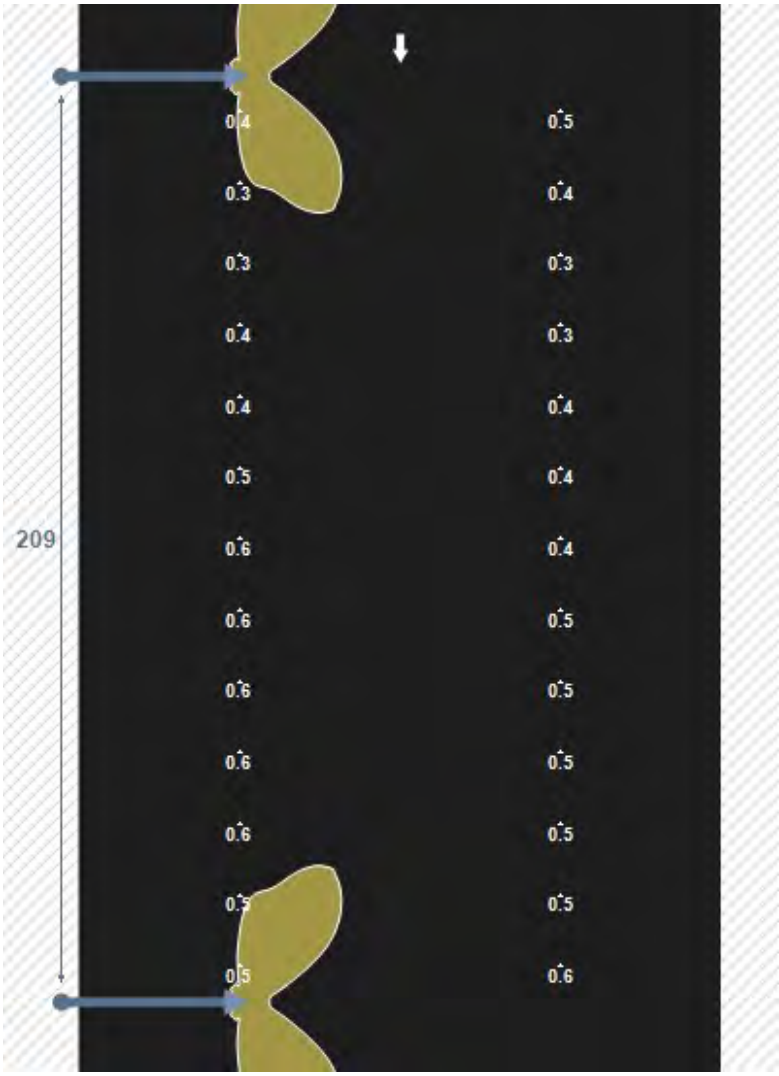

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2.6	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.2	--	fc
Ave/Min:	2.6	--	
Max/Min:	5.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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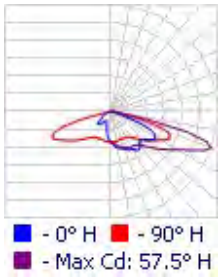
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

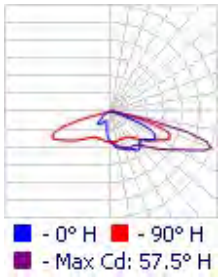
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	415.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	415.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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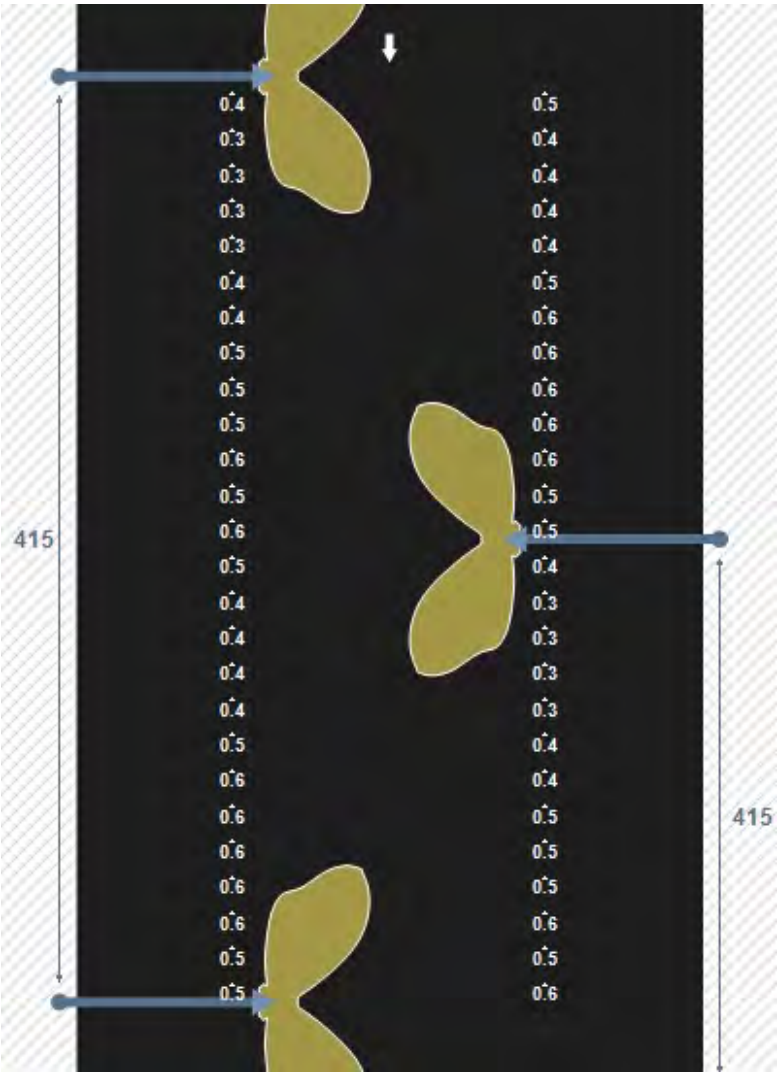

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	2.5	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

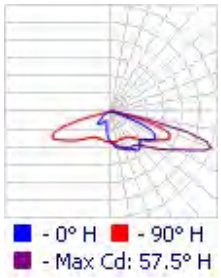
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

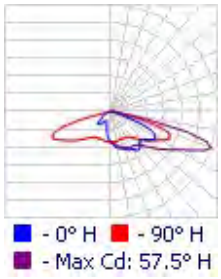
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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Visual - Roadway Tool

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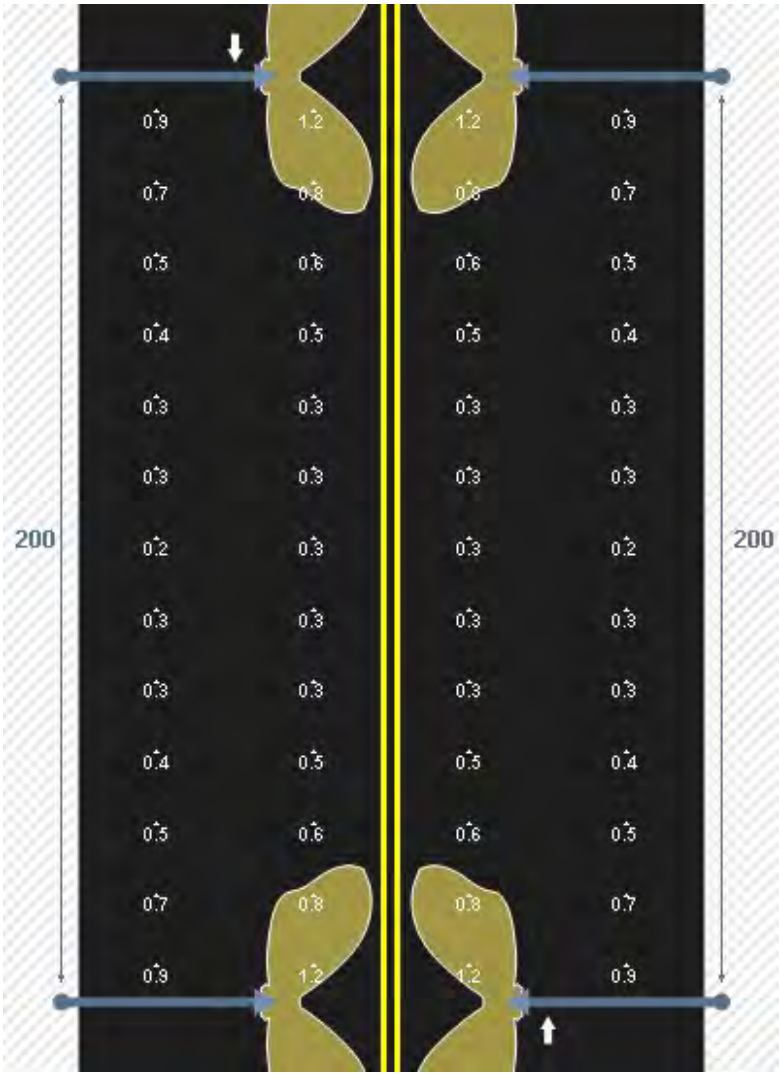

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.2	2.2	
Lv Ratio:	0.2	0.2	
STV:	2.4	2.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.2	1.2	fc
Min	0.2	0.2	fc
Ave/Min:	2.4	2.4	
Max/Min:	5.2	5.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

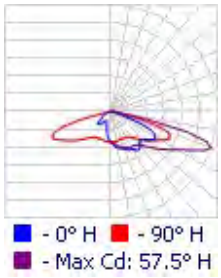
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	160 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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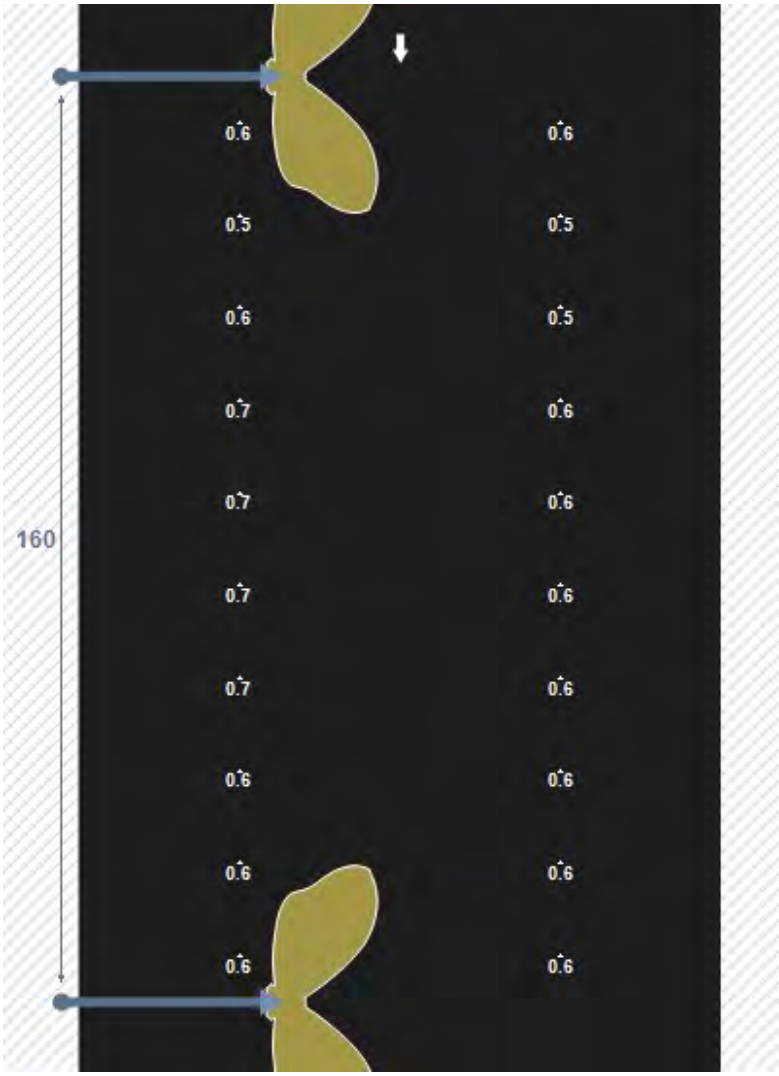

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.2	--	fc
Min	0.4	--	fc
Ave/Min:	1.8	--	
Max/Min:	3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

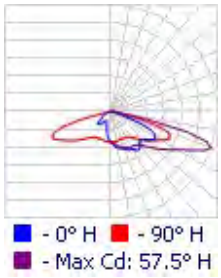
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

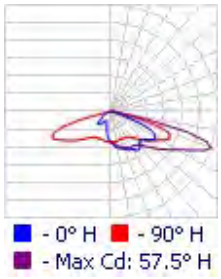
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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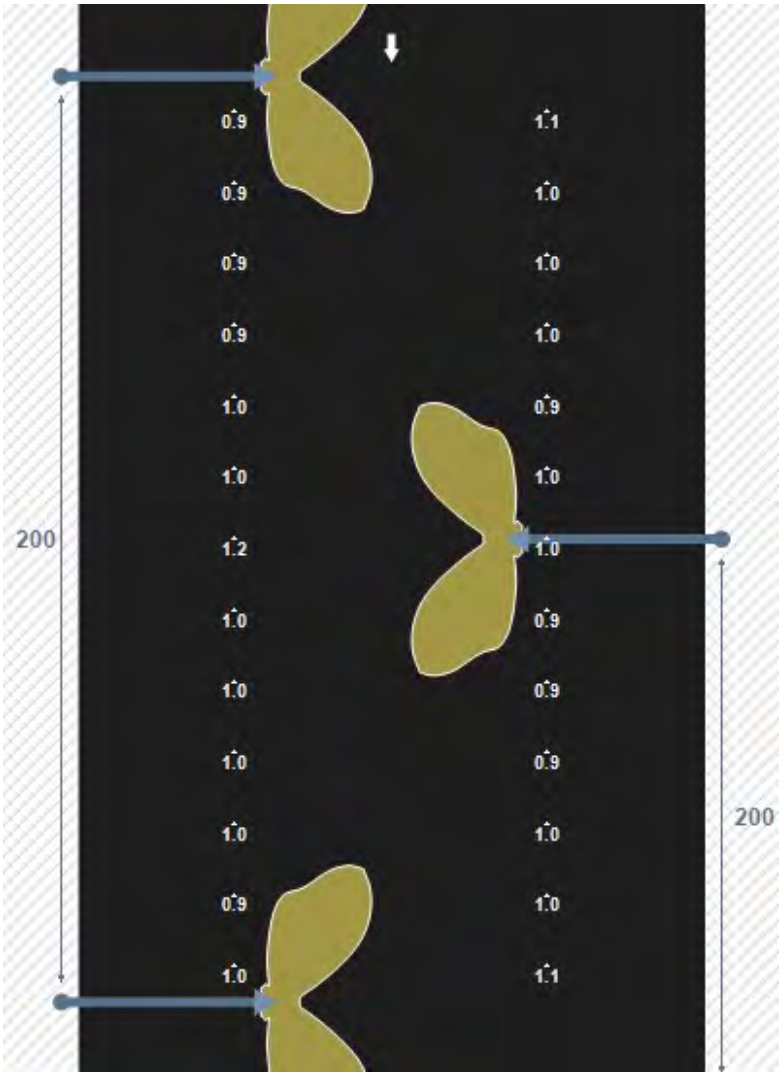

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	1	--	cd/m²	Average:	1.1	--	fc	Average:	--	--	fc
Max:	1.2	--	cd/m²	Max:	1.4	--	fc	Min	--	--	fc
Min	0.9	--	cd/m²	Min	1	--	fc	Ave/Min:	--	--	
Ave/Min:	1.1	--		Ave/Min:	1.2	--		Ev Min:	--	--	fc
Max/Min:	1.4	--		Max/Min:	1.5	--		**Bikelane**			
Lv Ratio:	0.1	--						Average:	--	--	fc
STV:	1	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

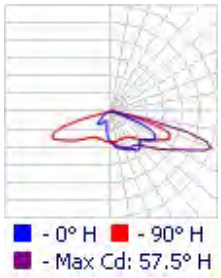
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

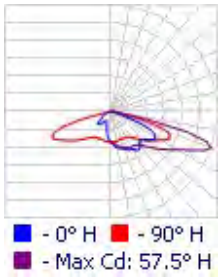
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	232.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	232.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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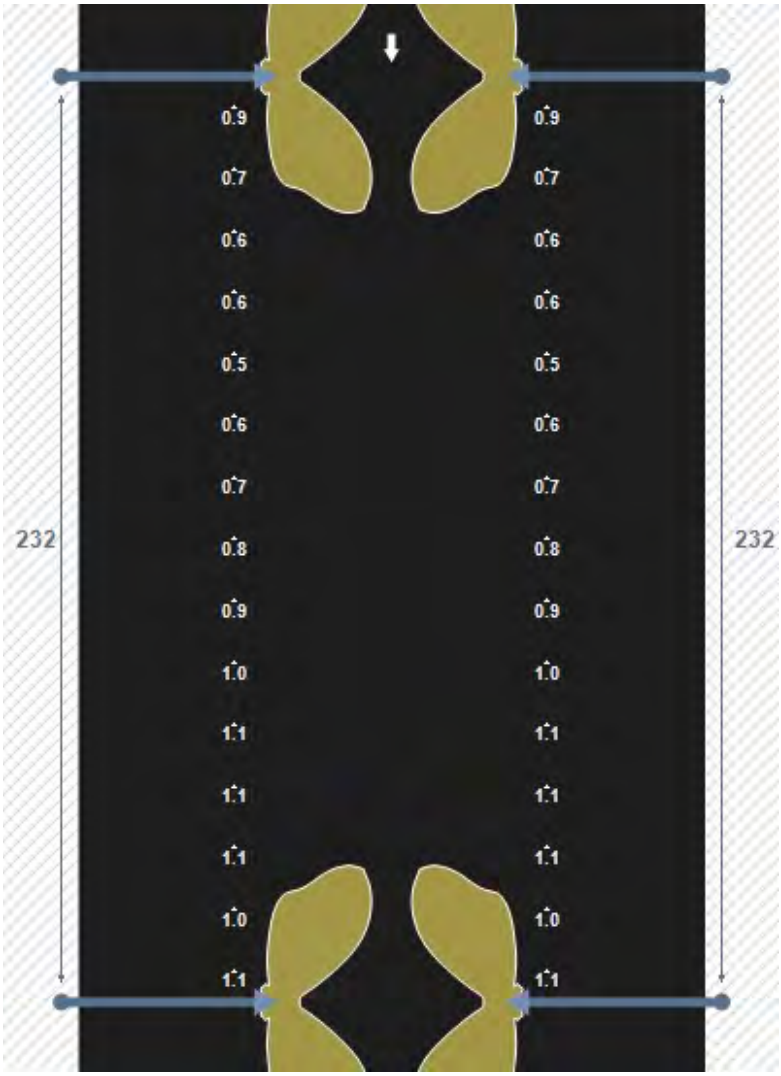

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

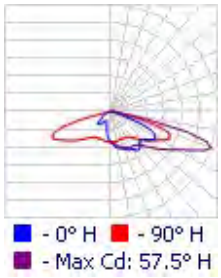
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	207.42 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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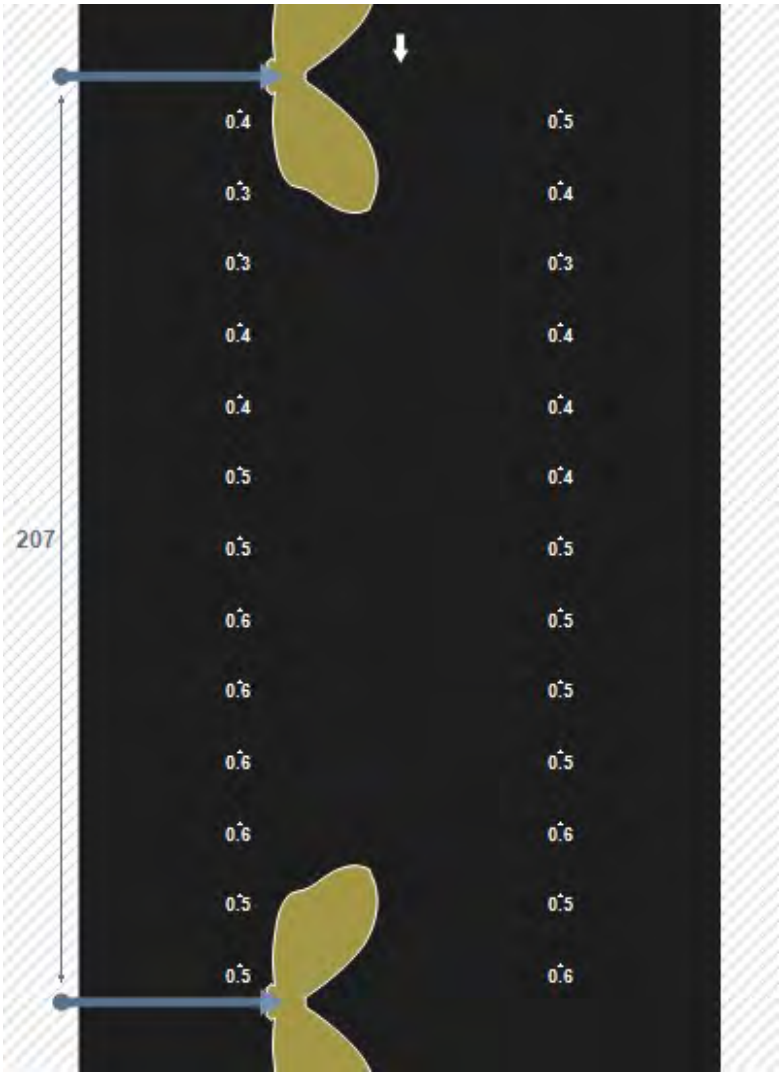

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2.6	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.2	--	fc
Ave/Min:	2.8	--	
Max/Min:	5.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

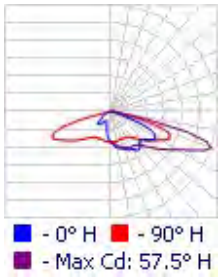
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

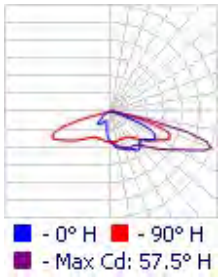
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	401.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	401.73 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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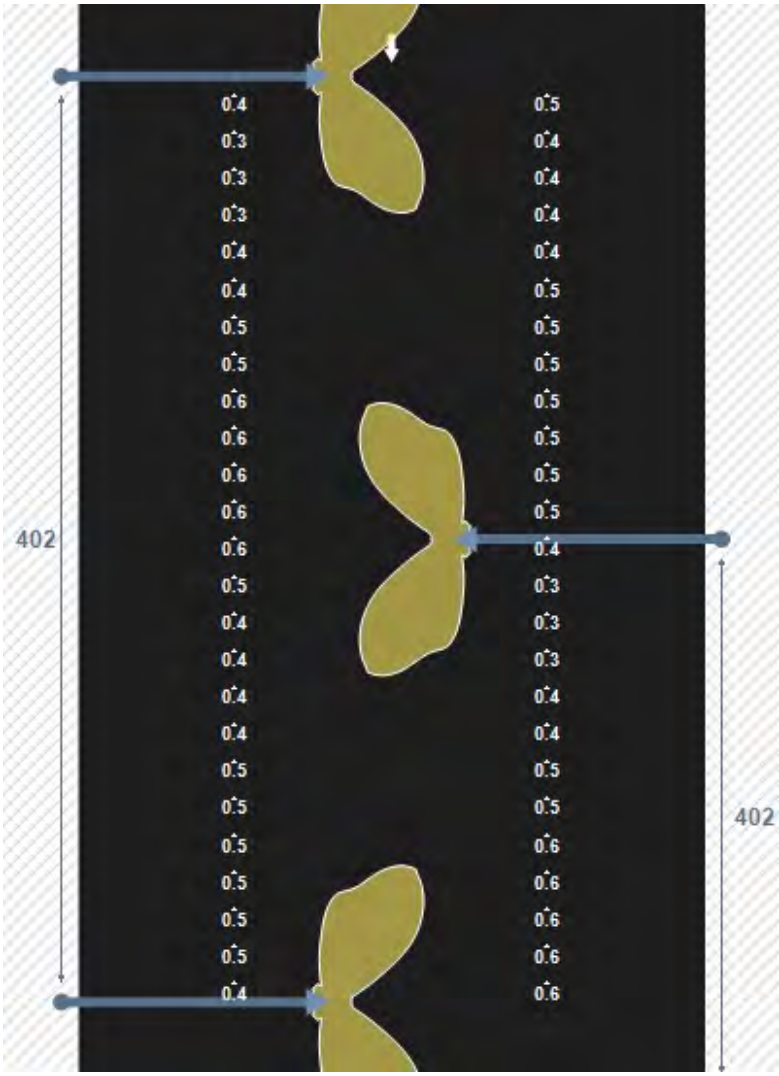

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	2.5	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.2	--	fc
Ave/Min:	2.3	--	
Max/Min:	5.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

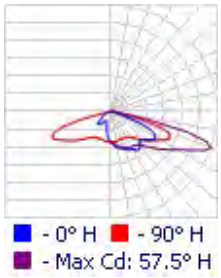
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

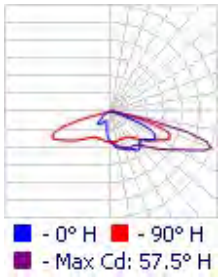
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	190.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	190.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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Visual - Roadway Tool

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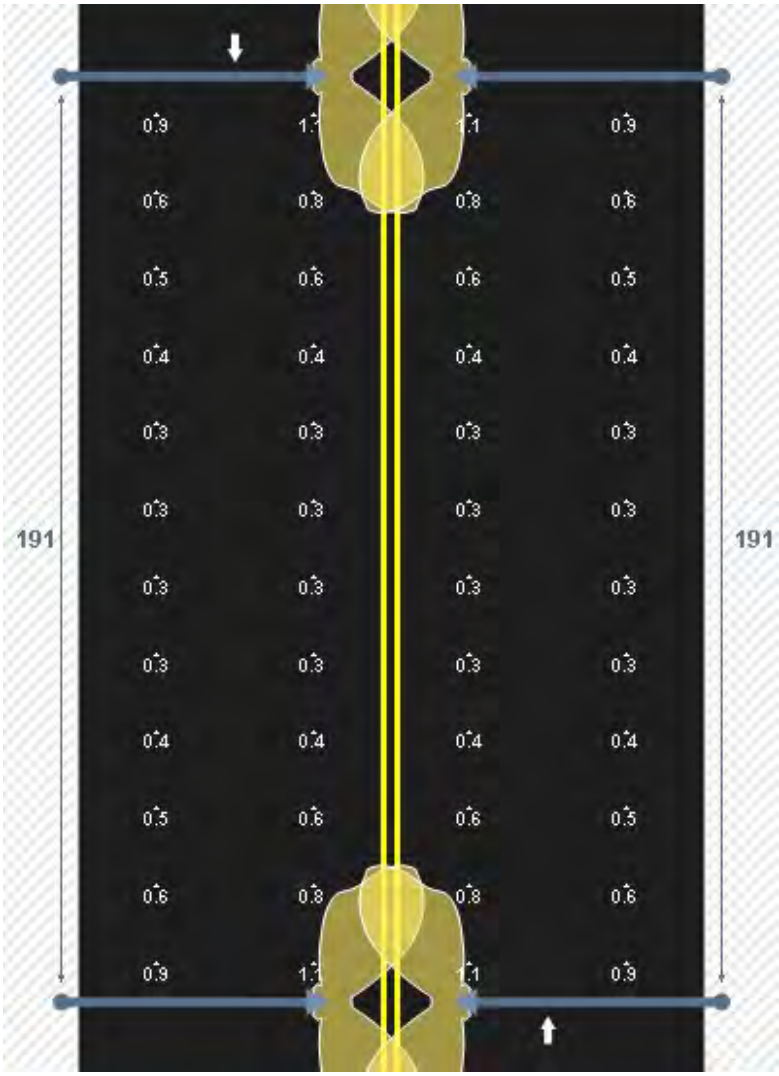

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	0.5	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.2	2.2	
Lv Ratio:	0.2	0.2	
STV:	2.1	2.1	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.2	1.2	fc
Min	0.3	0.3	fc
Ave/Min:	2.1	2.1	
Max/Min:	4.4	4.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

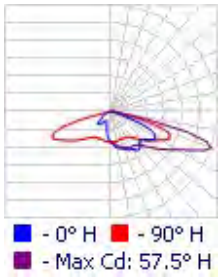
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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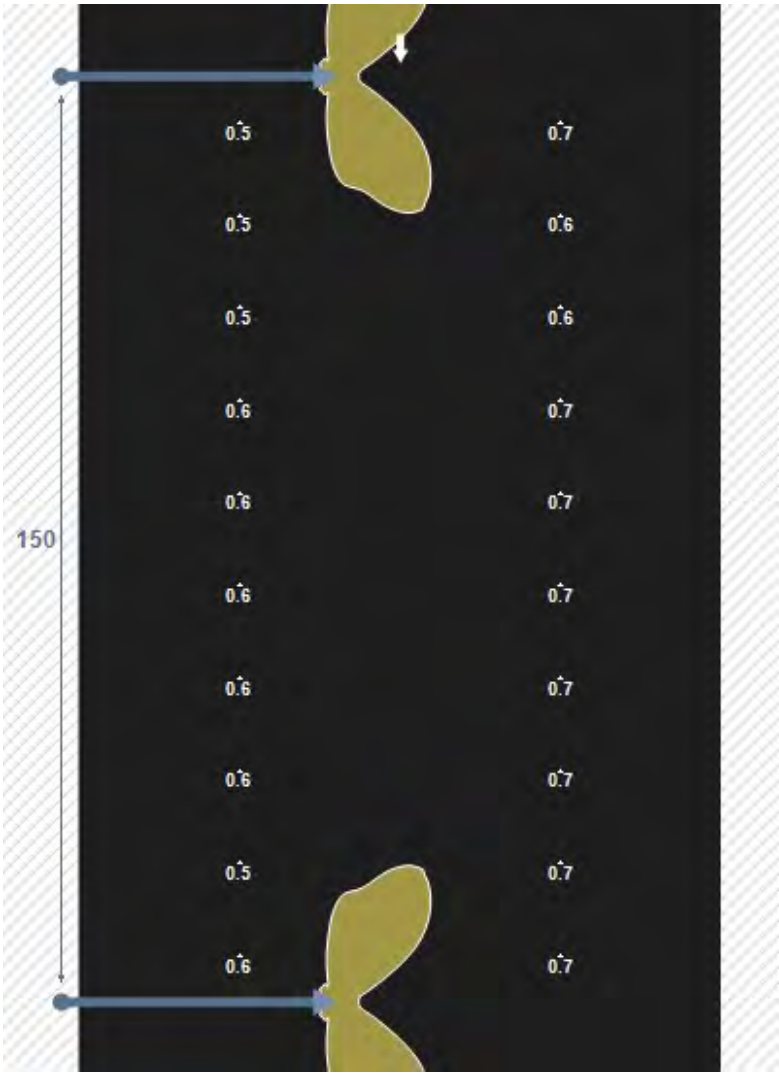

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.3	--	fc
Min	0.4	--	fc
Ave/Min:	1.7	--	
Max/Min:	3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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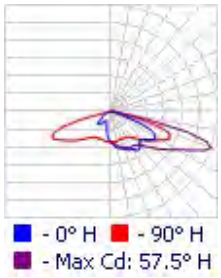
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

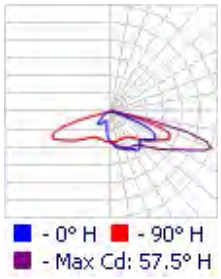
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	190 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	190 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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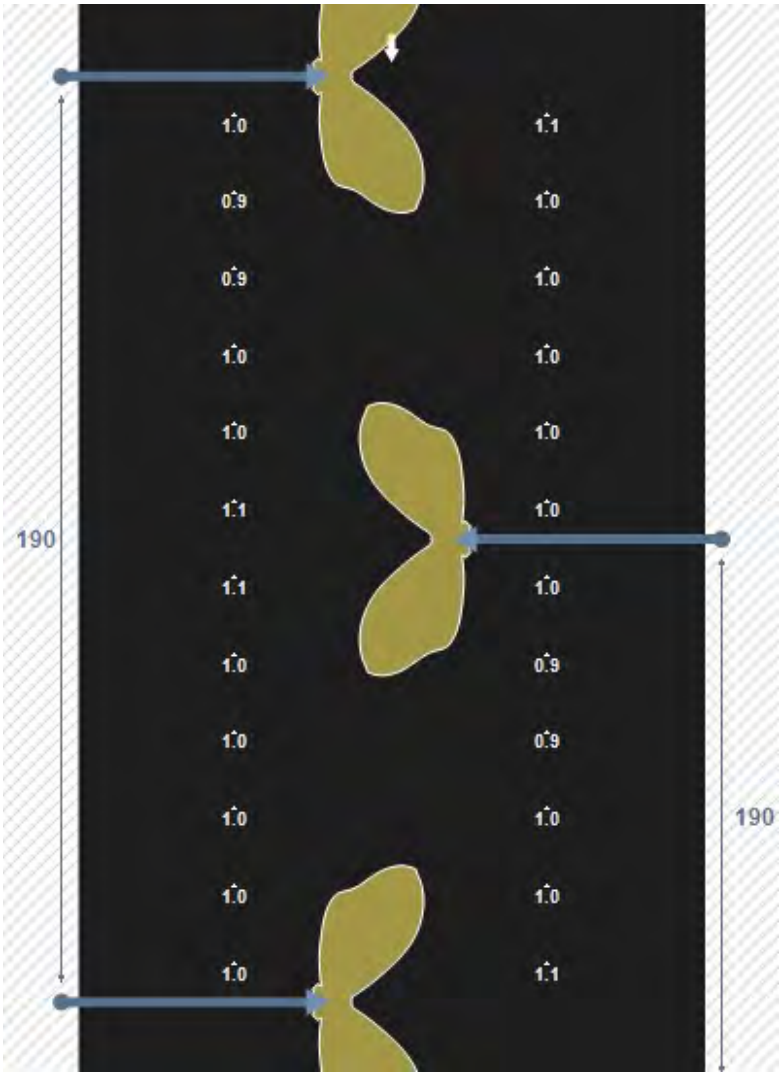

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	1	--	cd/m²	Average:	1.2	--	fc	Average:	--	--	fc
Max:	1	--	cd/m²	Max:	1.5	--	fc	Min	--	--	fc
Min	0.9	--	cd/m²	Min	1	--	fc	Ave/Min:	--	--	
Ave/Min:	1.1	--		Ave/Min:	1.2	--		Ev Min:	--	--	fc
Max/Min:	1.1	--		Max/Min:	1.5	--		**Bikelane**			
Lv Ratio:	0.1	--						Average:	--	--	fc
STV:	0.9	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

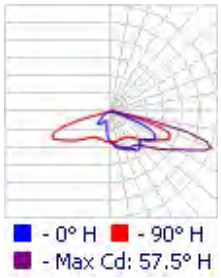
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

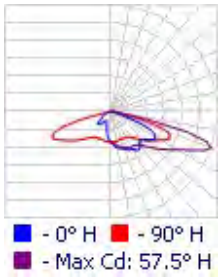
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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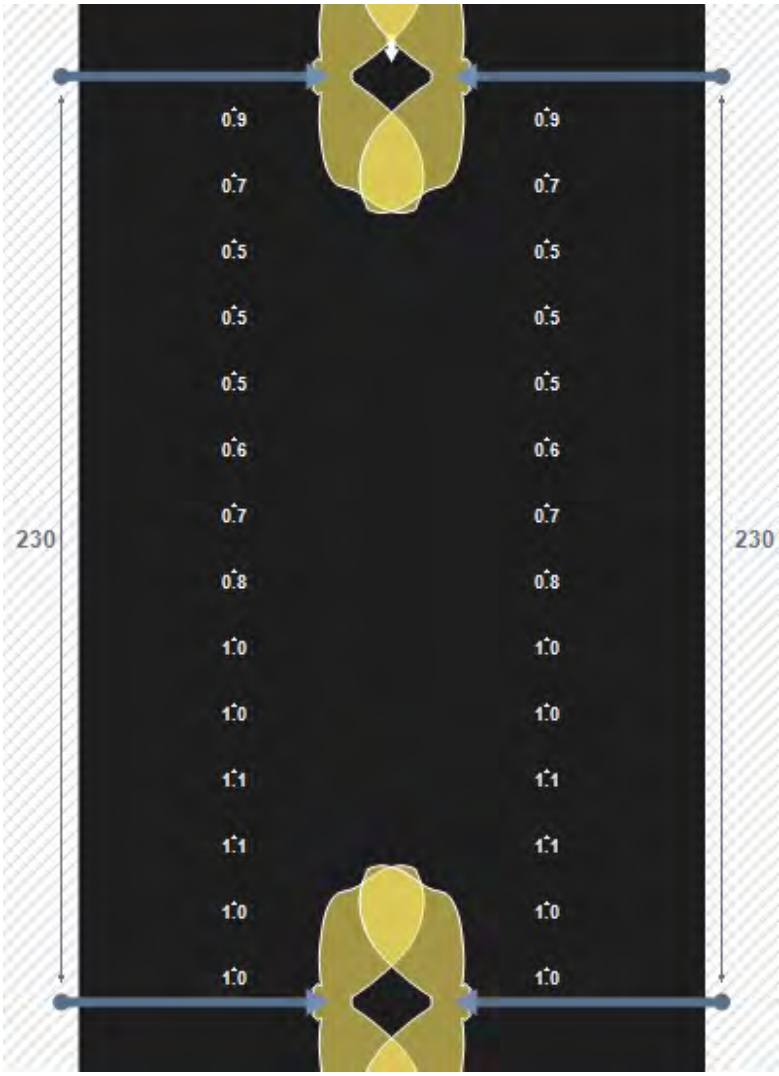

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.1	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

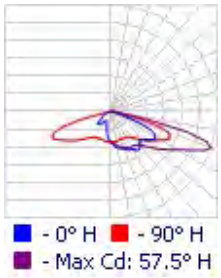
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200.81 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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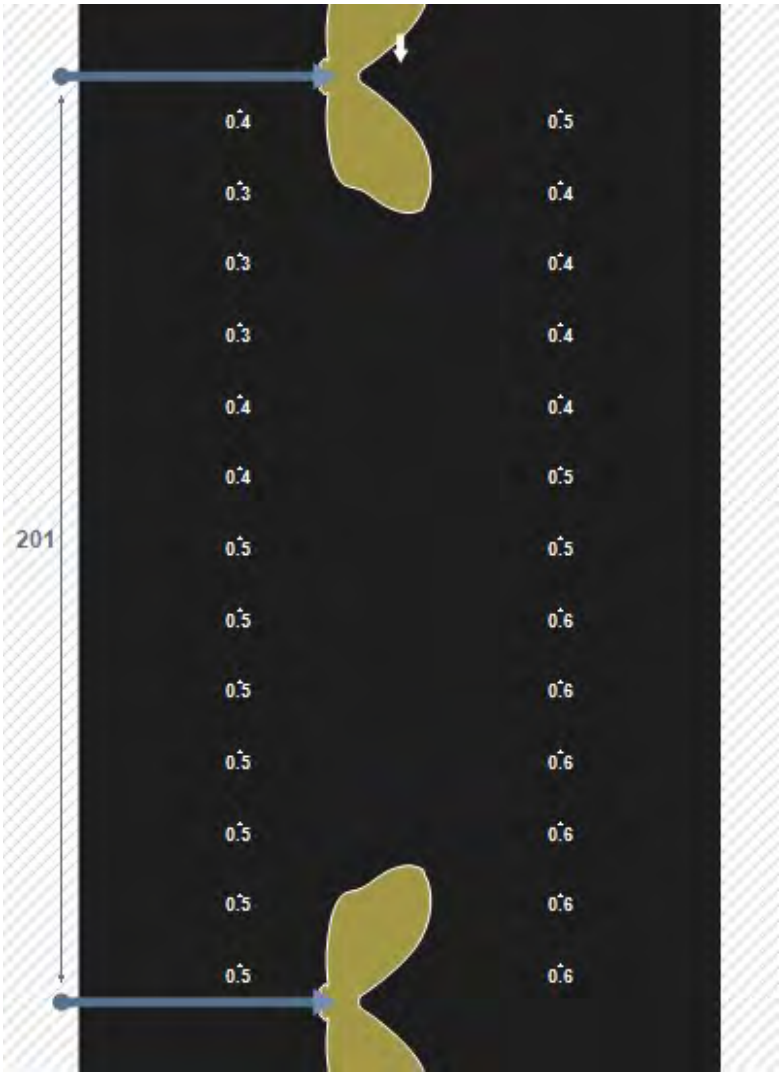

Luminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	2.4	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.2	--	fc
Ave/Min:	2.8	--	
Max/Min:	6.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

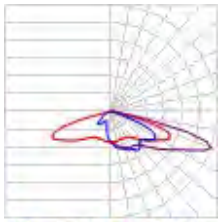
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

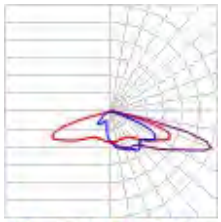
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	426.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	426.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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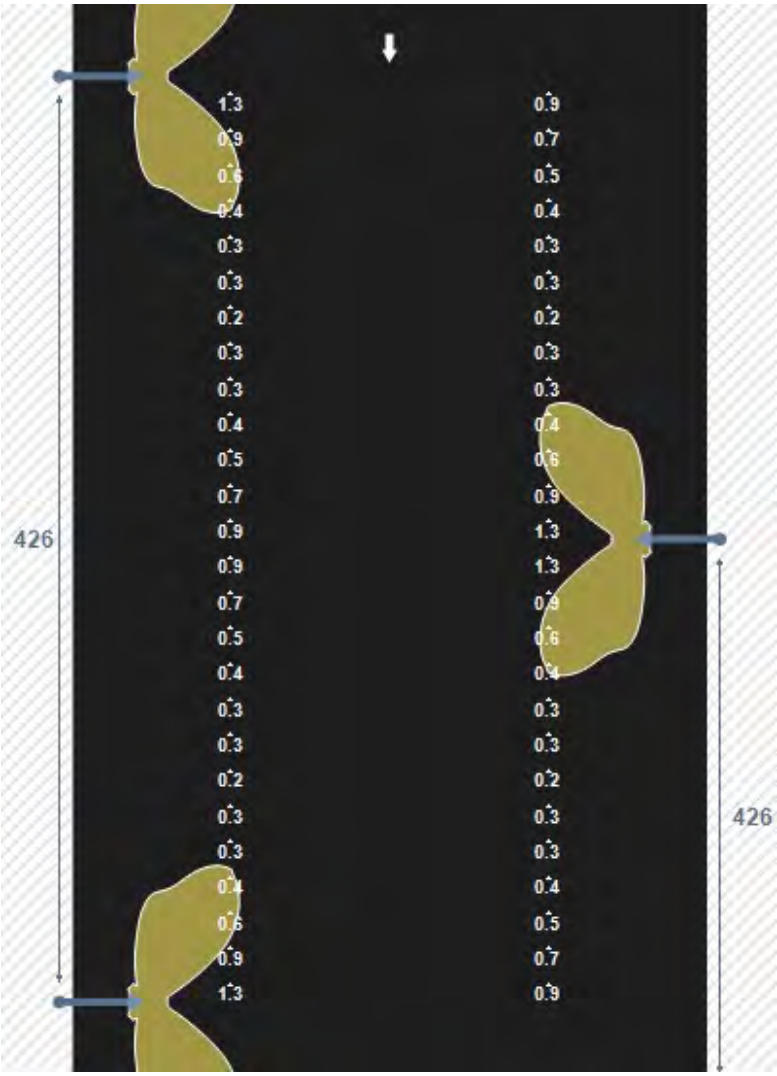

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.5	--	
Lv Ratio:	0.2	--	
STV:	2.8	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Wednesday, April 14, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

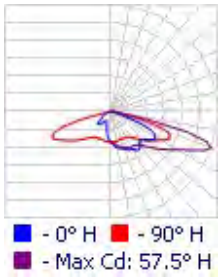
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

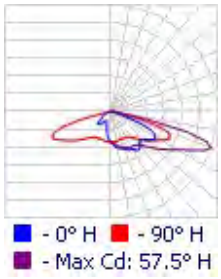
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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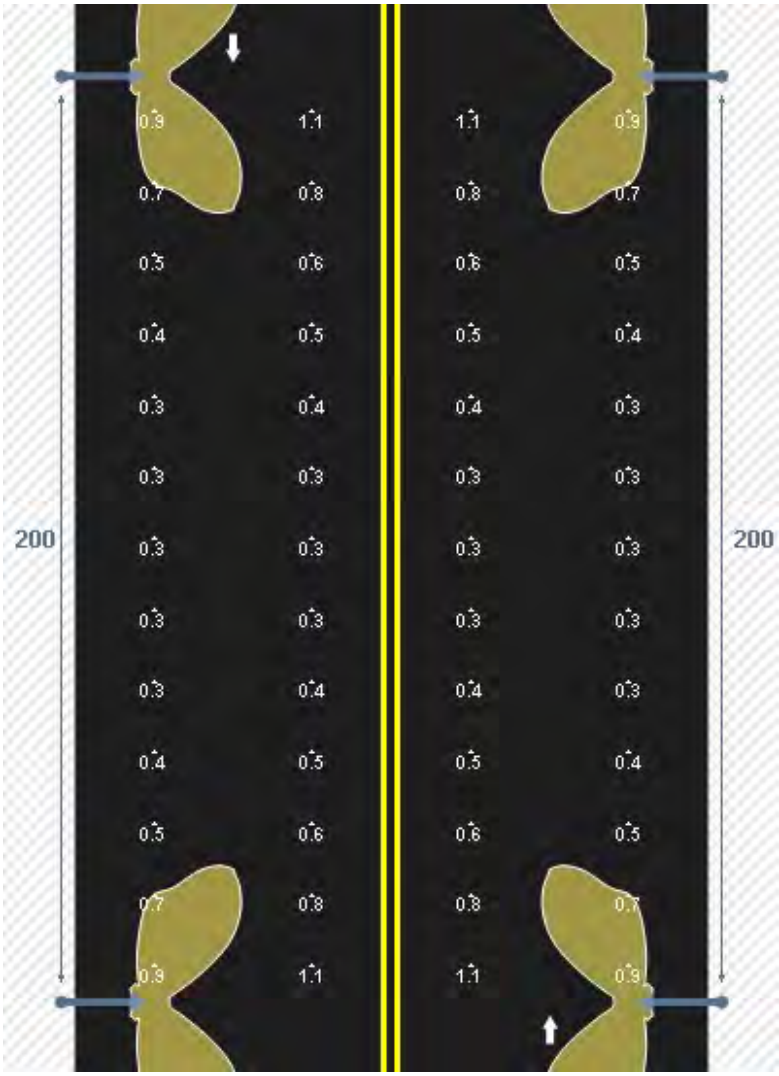

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	2.4	2.4	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.1	1.1	fc
Min	0.3	0.3	fc
Ave/Min:	2	2	
Max/Min:	4	4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

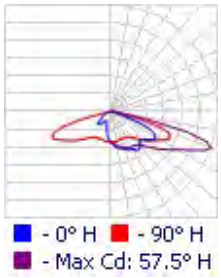
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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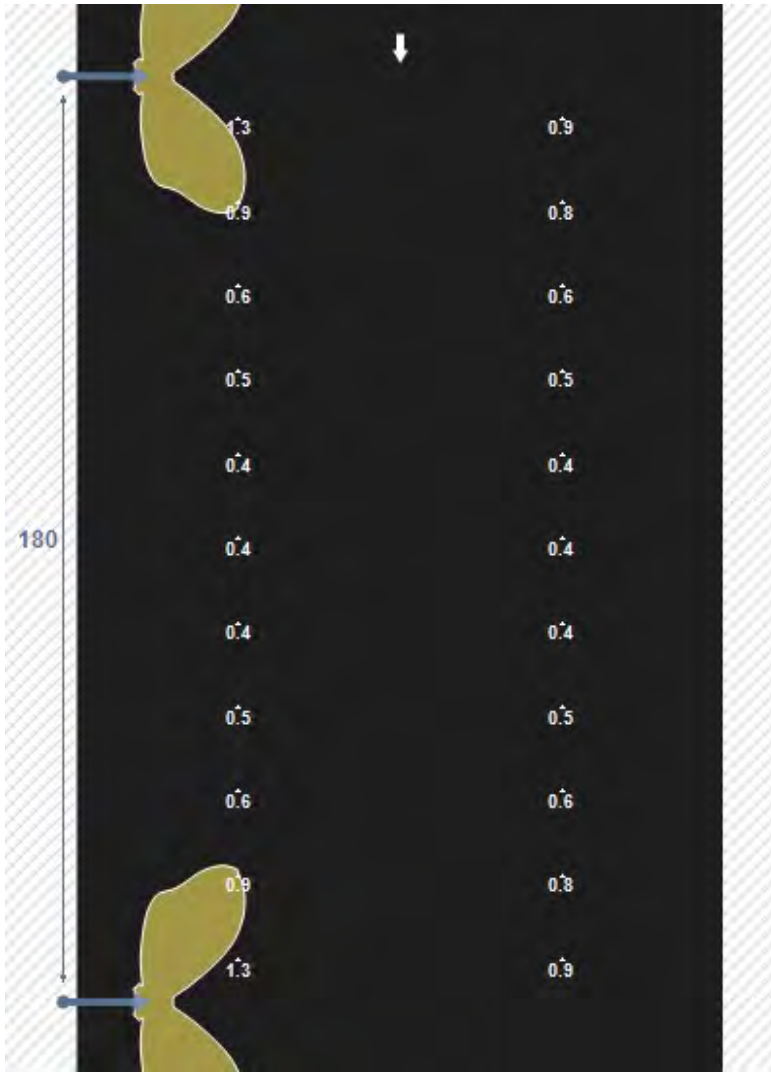

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2.2	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.4	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

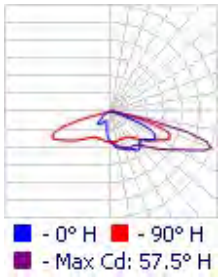
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

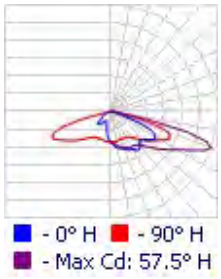
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	370 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	370 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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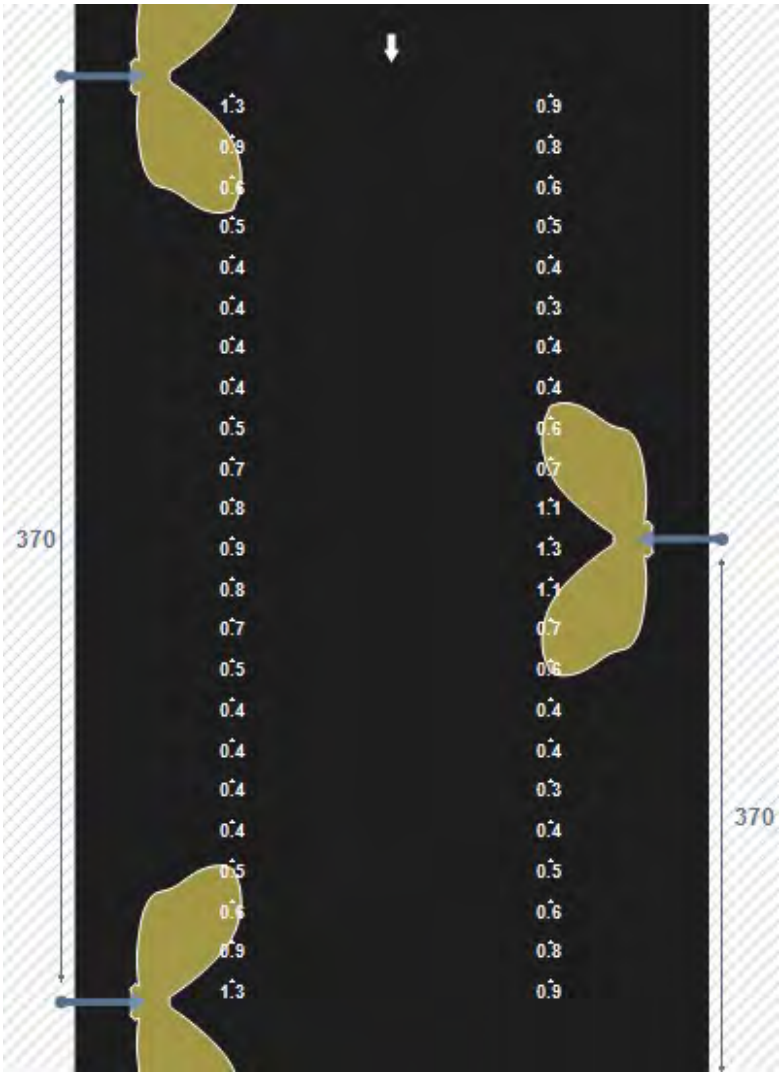

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	2.3	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.4	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

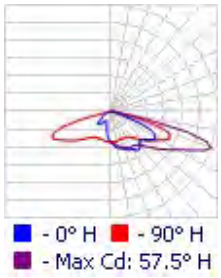
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

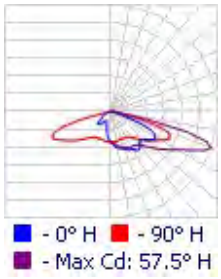
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	238.97 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	238.97 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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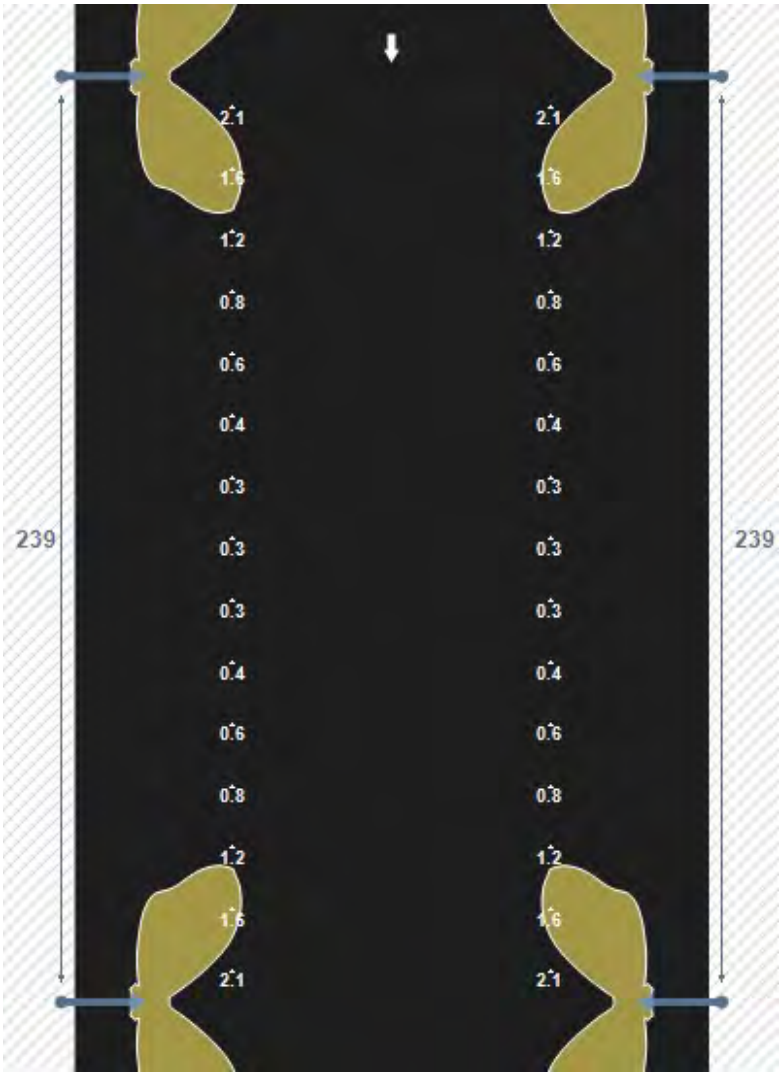

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.1	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.1	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

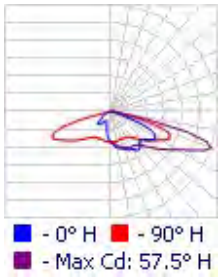
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	212.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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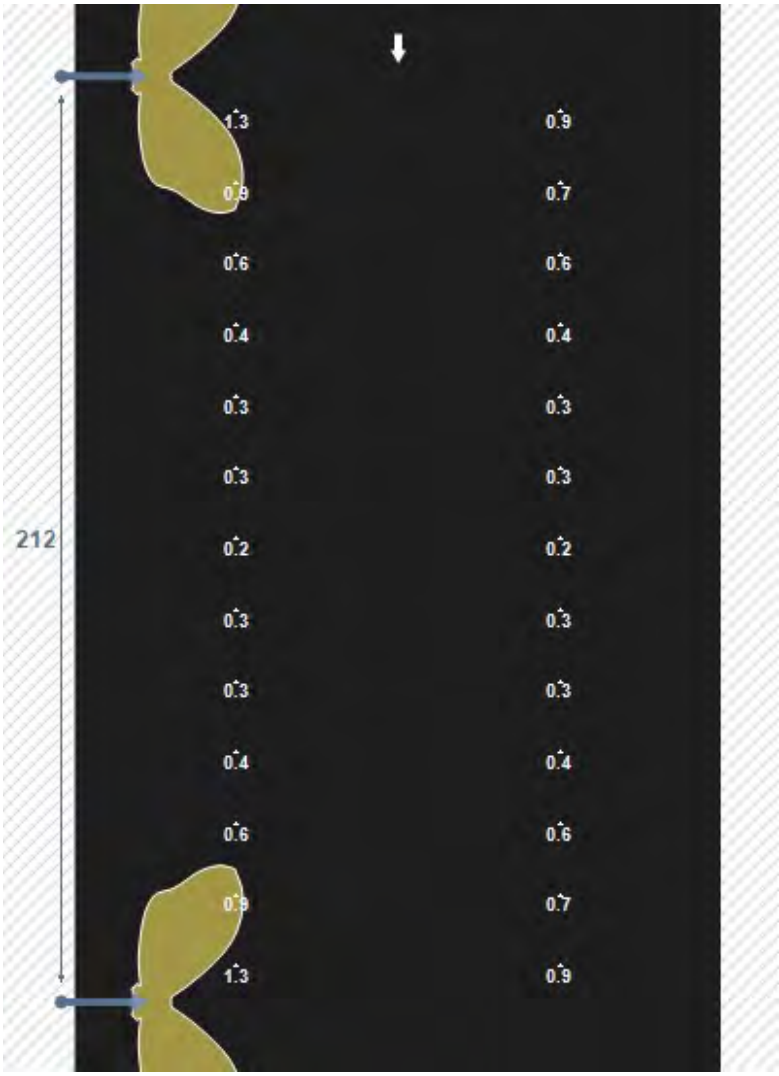

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.5	--	
Lv Ratio:	0.2	--	
STV:	2.8	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

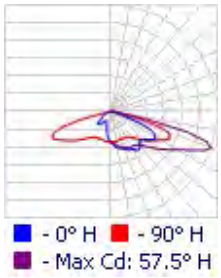
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

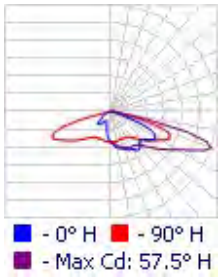
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	425.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	425.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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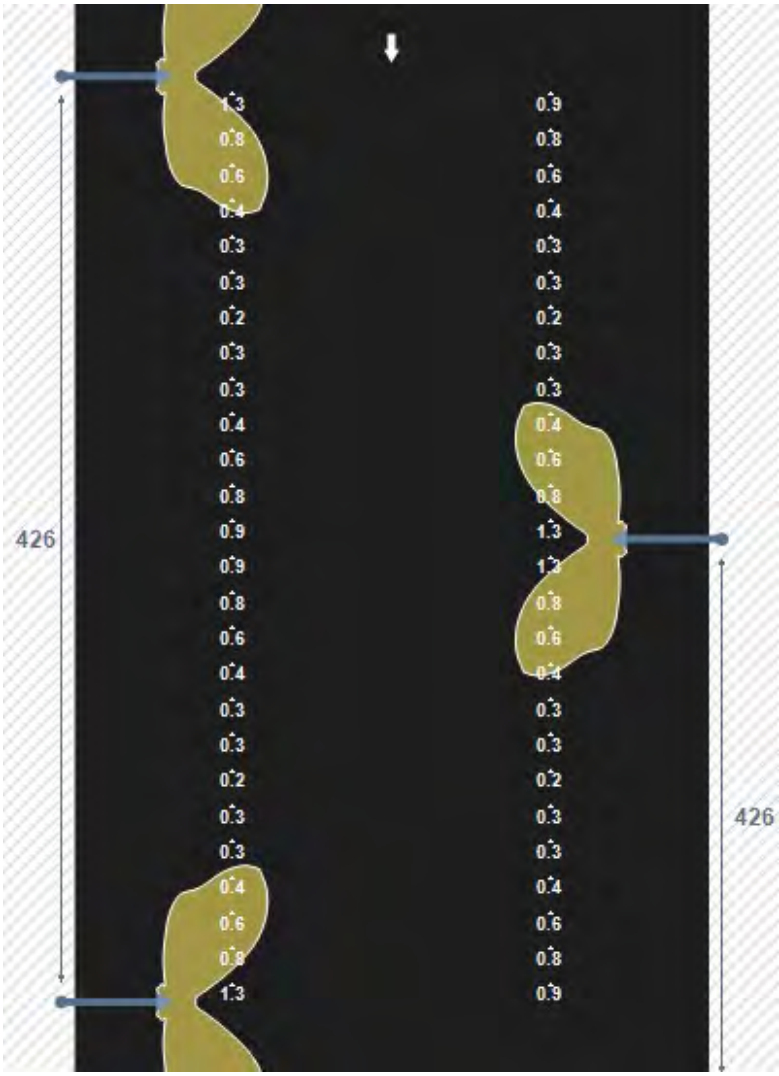

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.5	--	
Lv Ratio:	0.2	--	
STV:	2.8	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

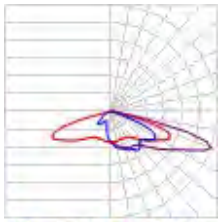
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

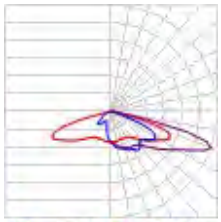
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	200.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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Visual - Roadway Tool

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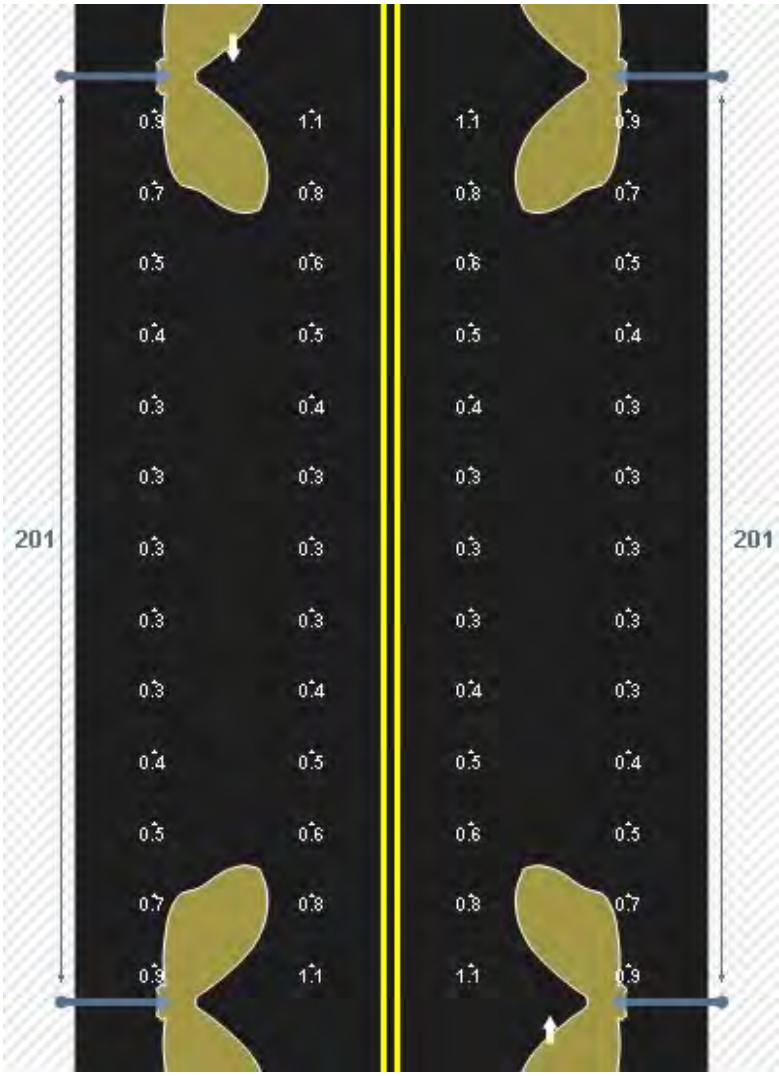

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	2.5	2.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.1	1.1	fc
Min	0.3	0.3	fc
Ave/Min:	2.1	2.1	
Max/Min:	4.3	4.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

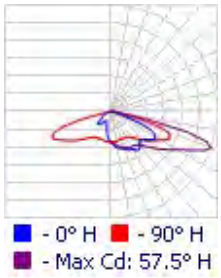
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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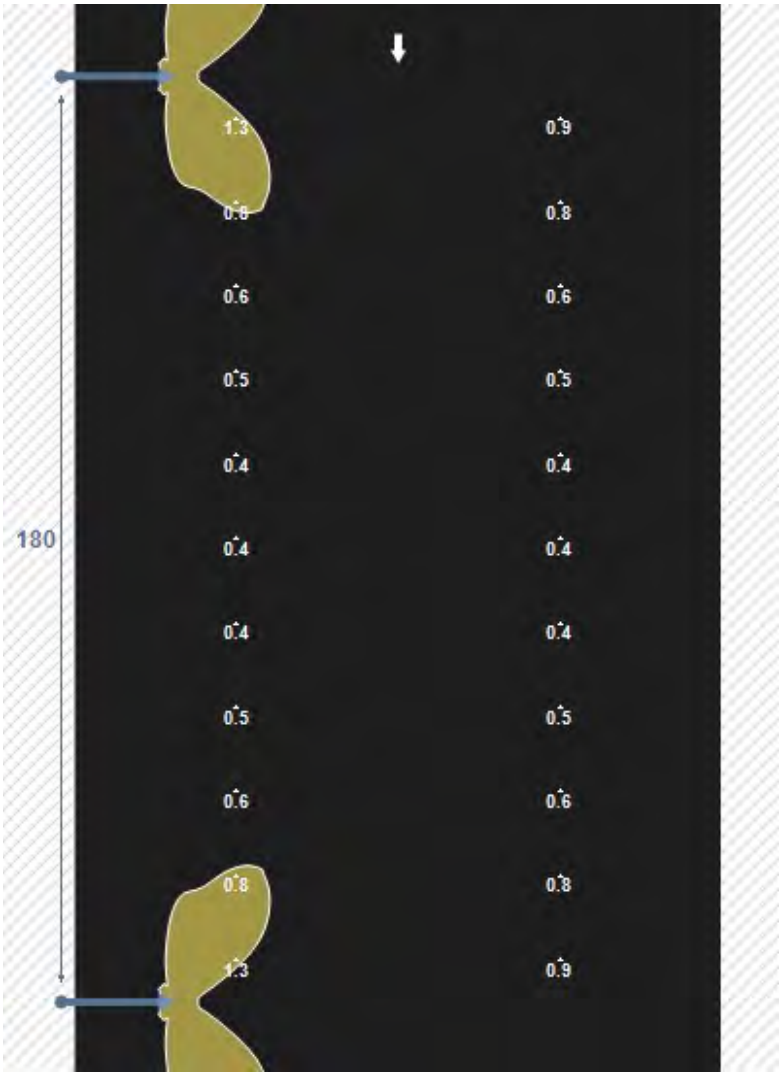
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2.1	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.4	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

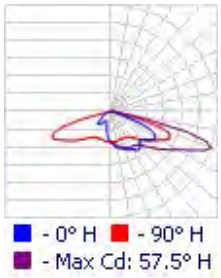
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

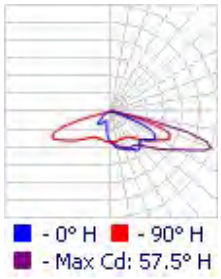
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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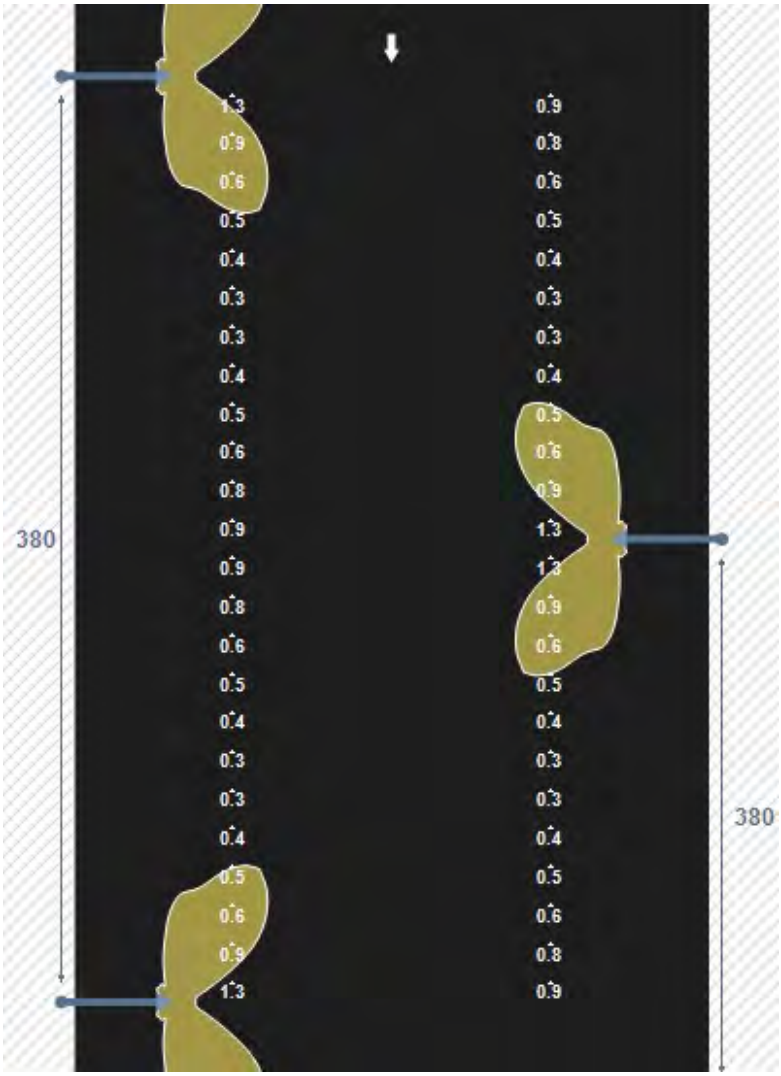

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	2.3	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.3	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

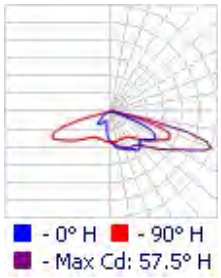
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

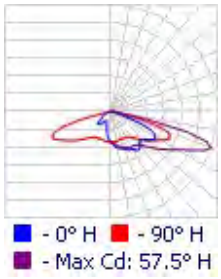
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	235.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	235.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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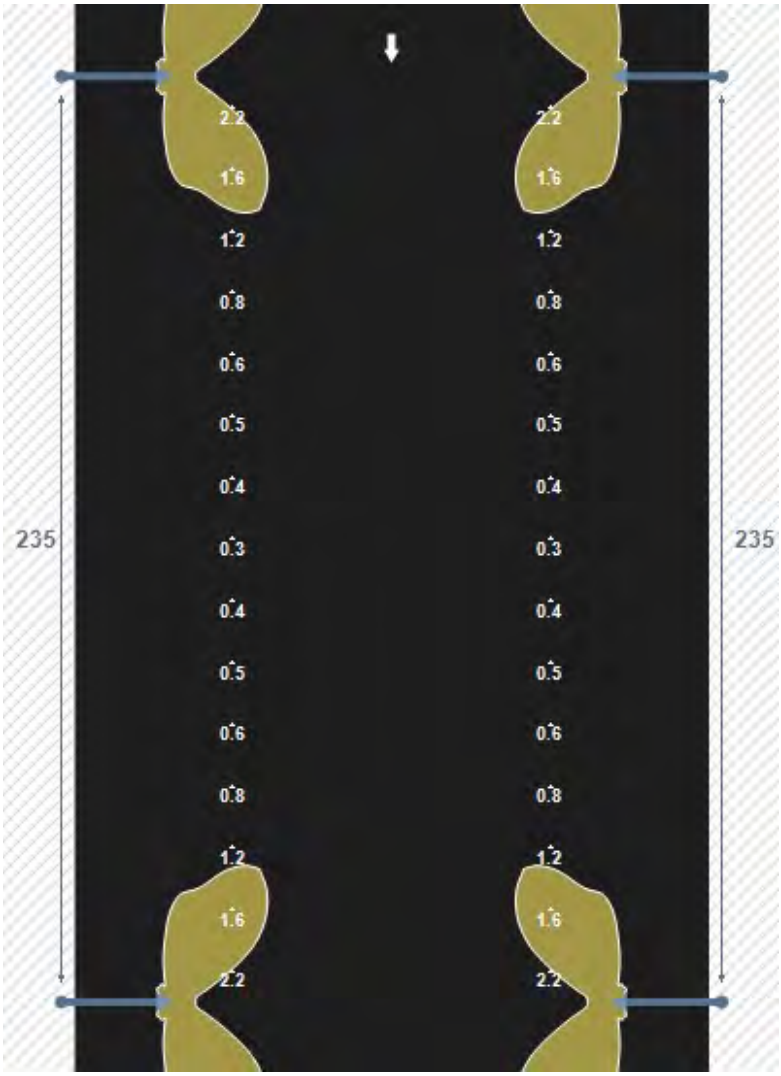

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

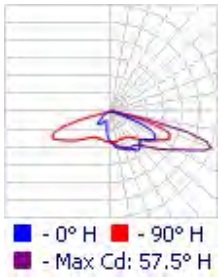
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	211.81 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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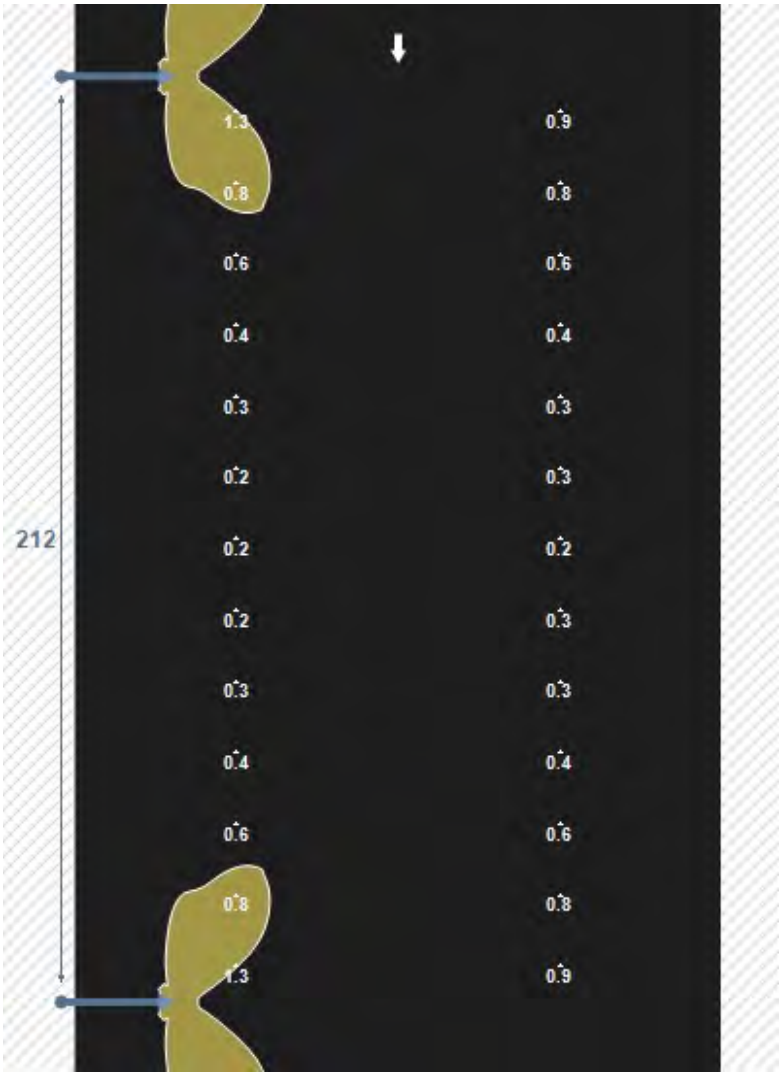

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	2.7	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.3	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

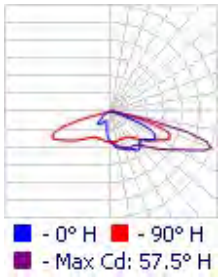
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

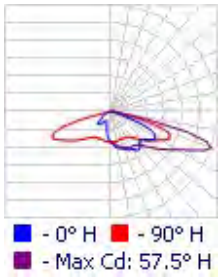
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	416.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	416.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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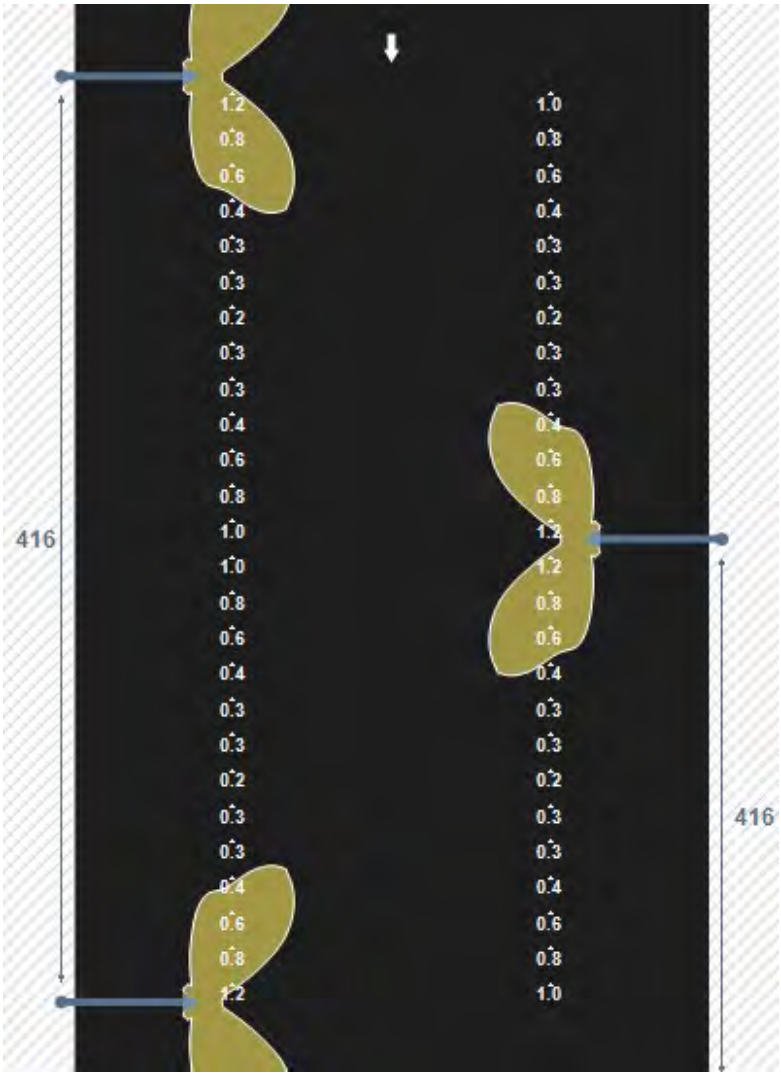

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	2.6	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.2	--	fc
Ave/Min:	2.3	--	
Max/Min:	4.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

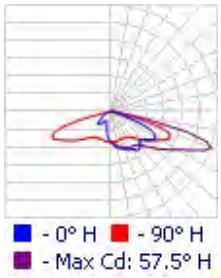
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

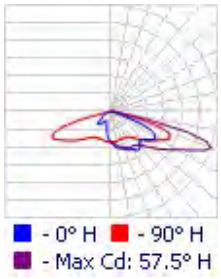
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	202.88 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	202.88 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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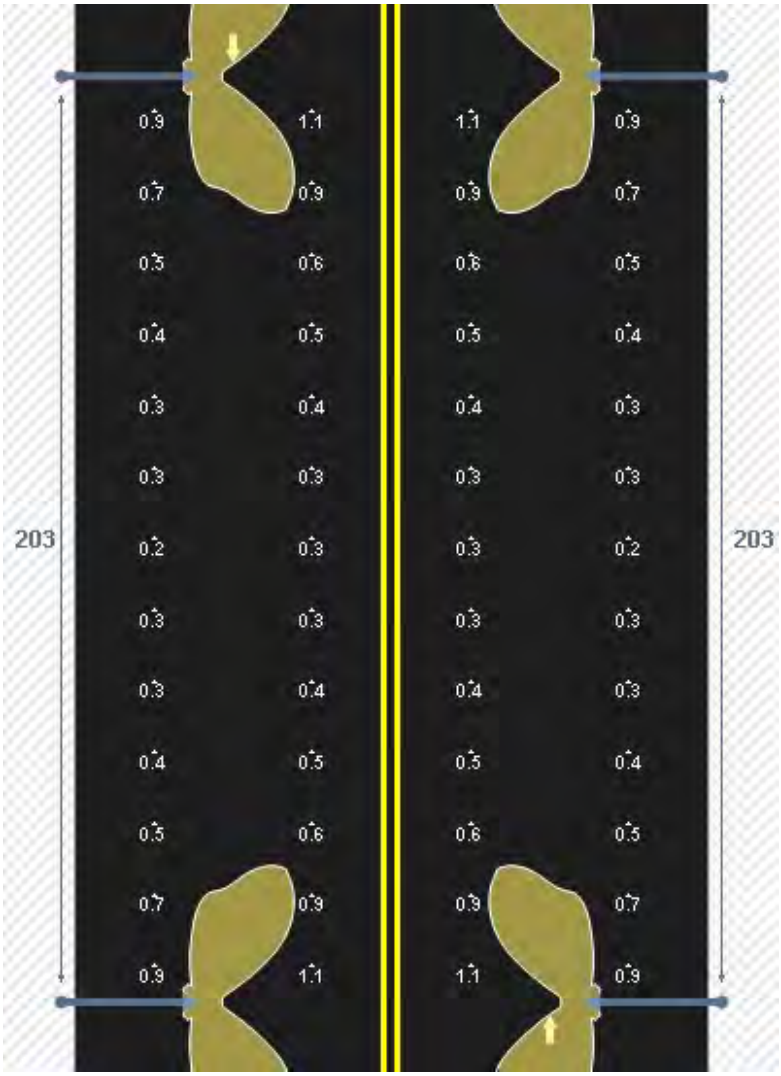

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	2.5	2.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.1	1.1	fc
Min	0.2	0.2	fc
Ave/Min:	2.3	2.3	
Max/Min:	4.8	4.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

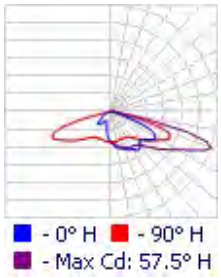
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.2	--	fc
Min	0.4	--	fc
Ave/Min:	1.7	--	
Max/Min:	3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

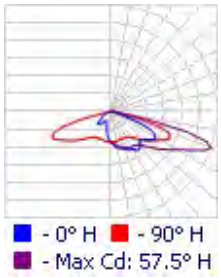
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

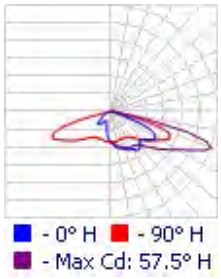
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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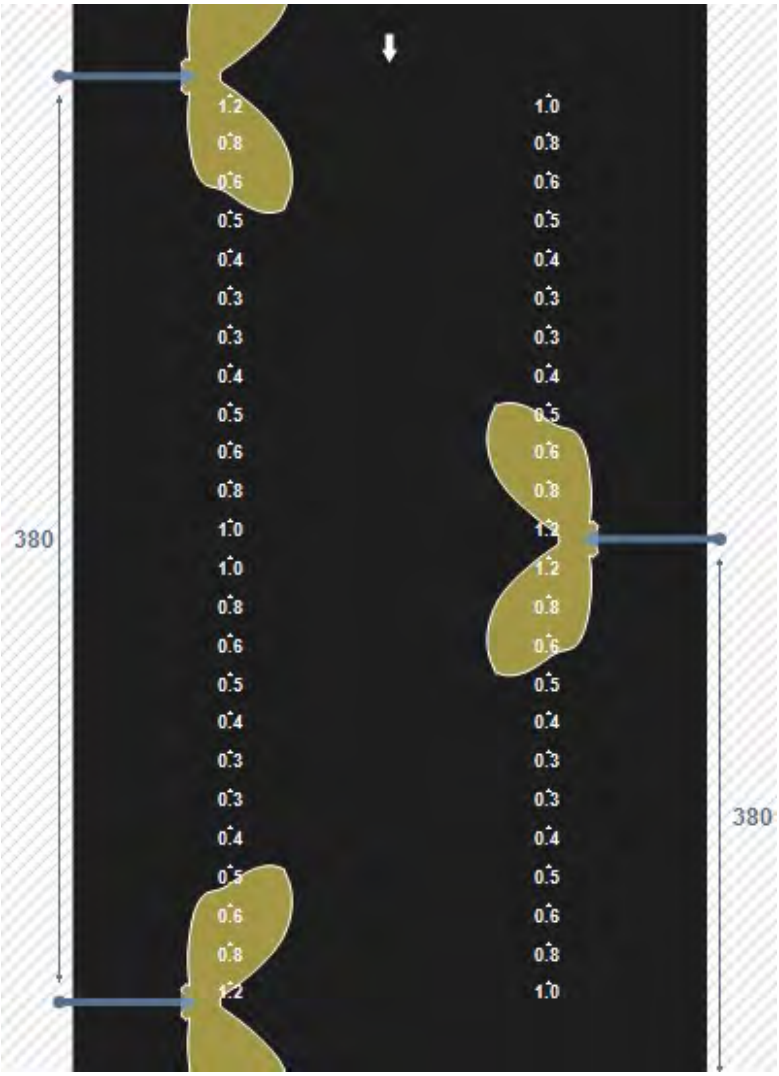

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2.3	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.3	--	fc
Ave/Min:	1.9	--	
Max/Min:	3.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

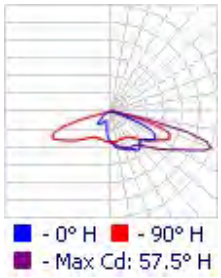
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

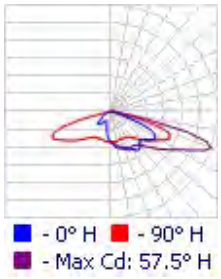
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	235.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	235.9 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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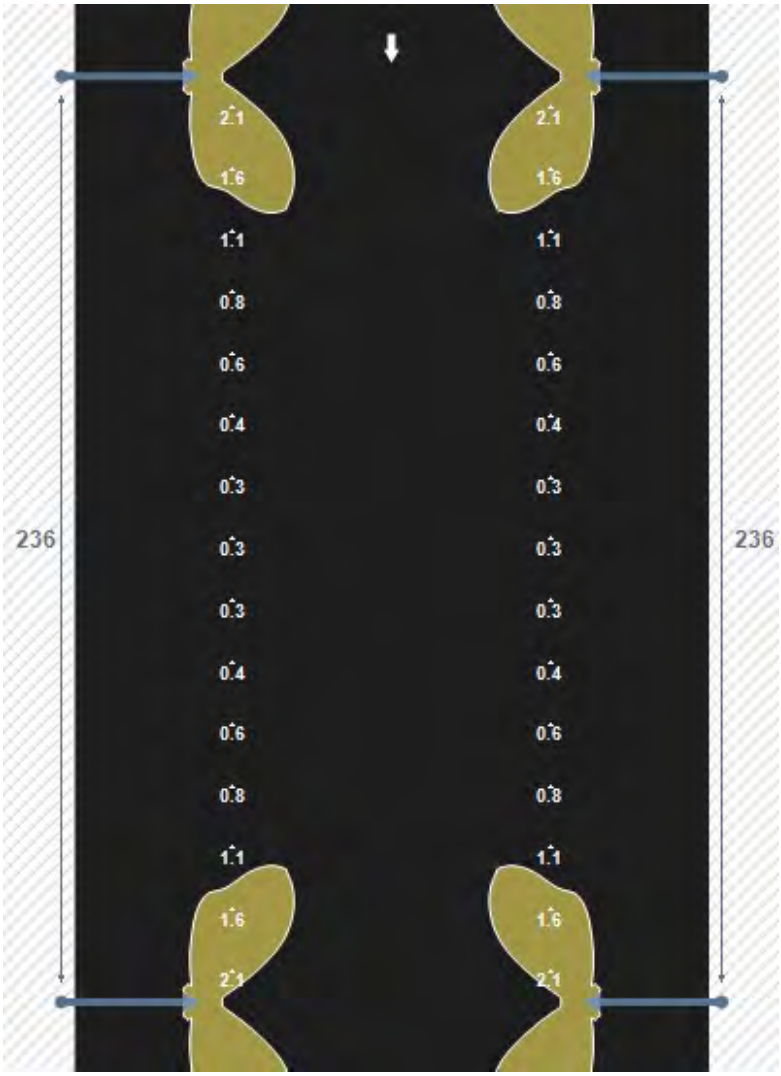

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	2.1	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
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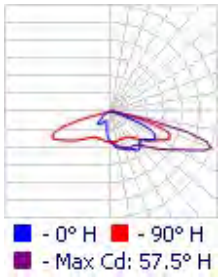
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	207.54 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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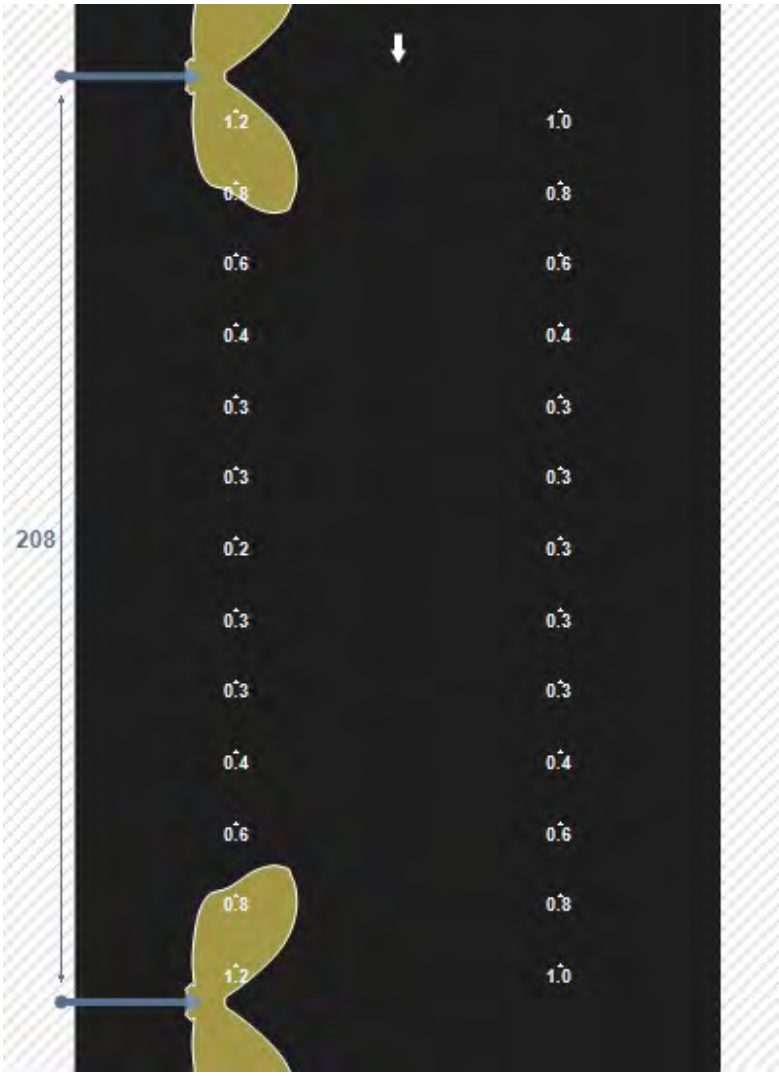

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	2.6	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

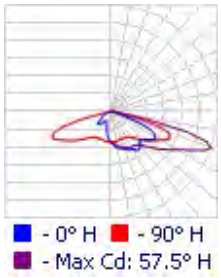
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

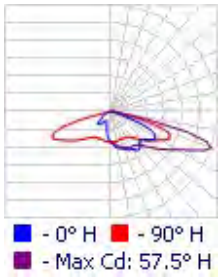
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	406.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	406.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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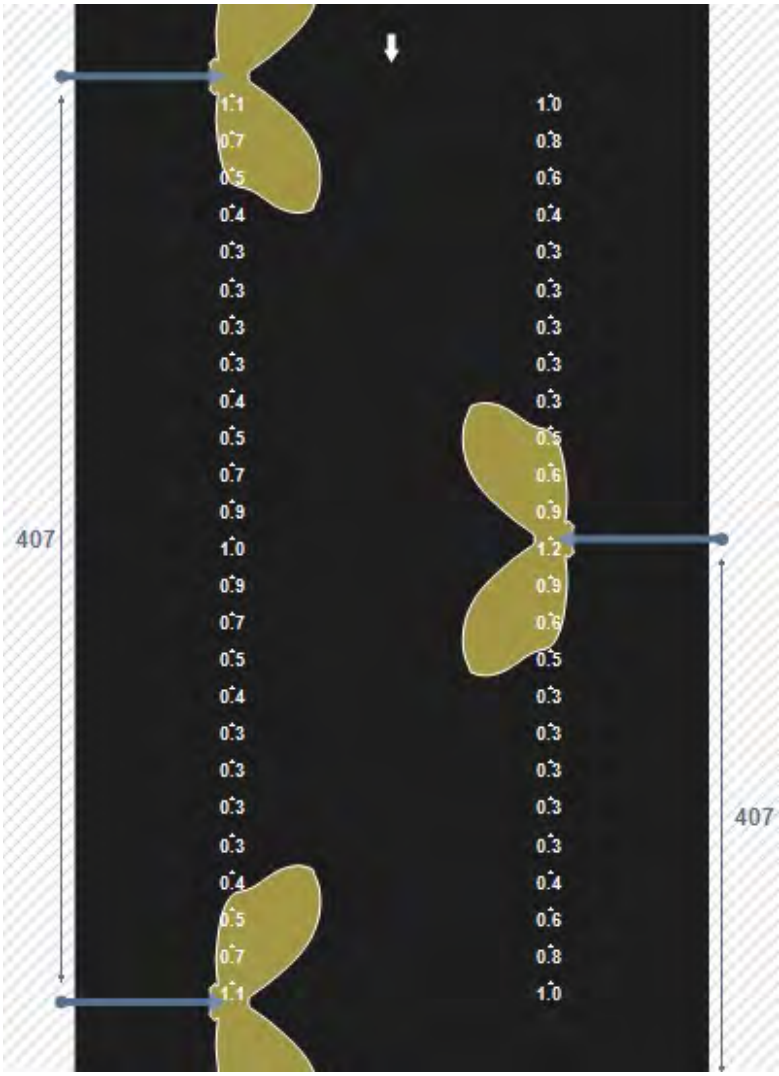

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2.6	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.2	--	fc
Min	0.3	--	fc
Ave/Min:	2.2	--	
Max/Min:	4.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

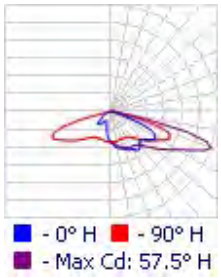
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

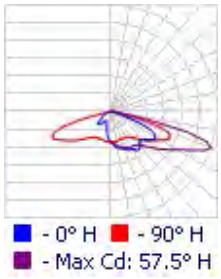
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	201.89 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	201.89 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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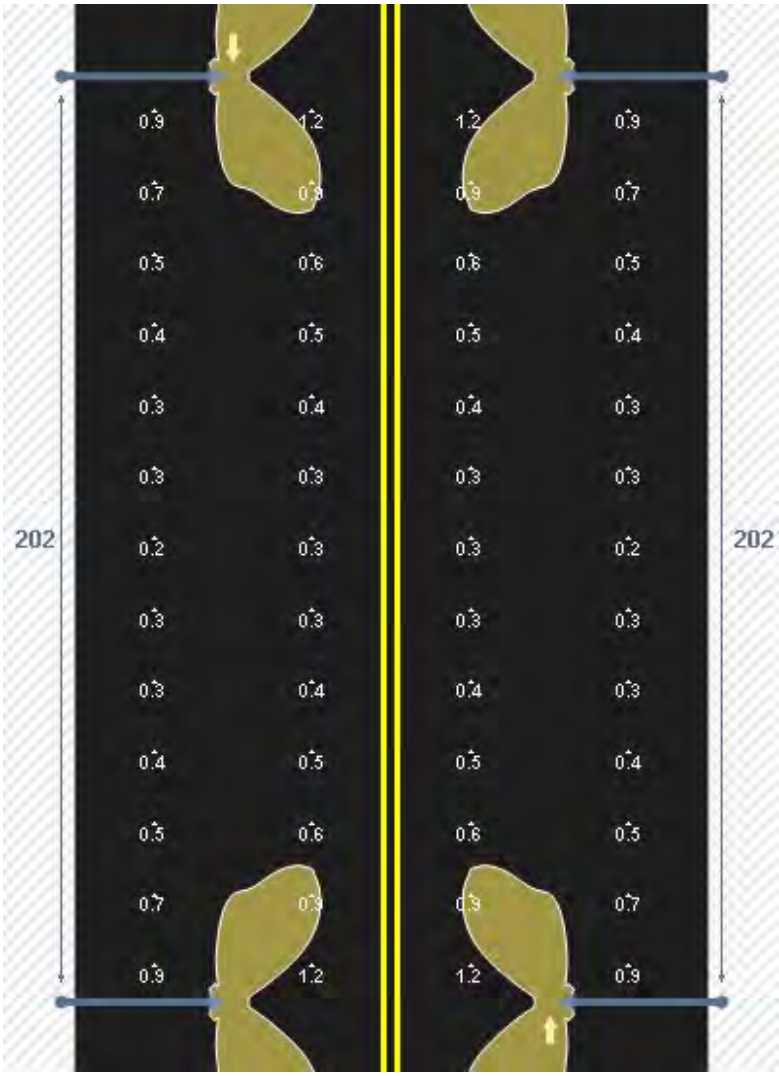
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.5	1.5	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	2.5	2.5	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.2	1.2	fc
Min	0.2	0.2	fc
Ave/Min:	2.3	2.3	
Max/Min:	4.9	4.9	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

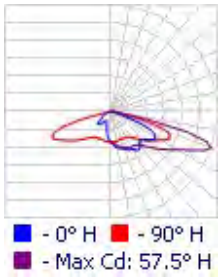
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	165 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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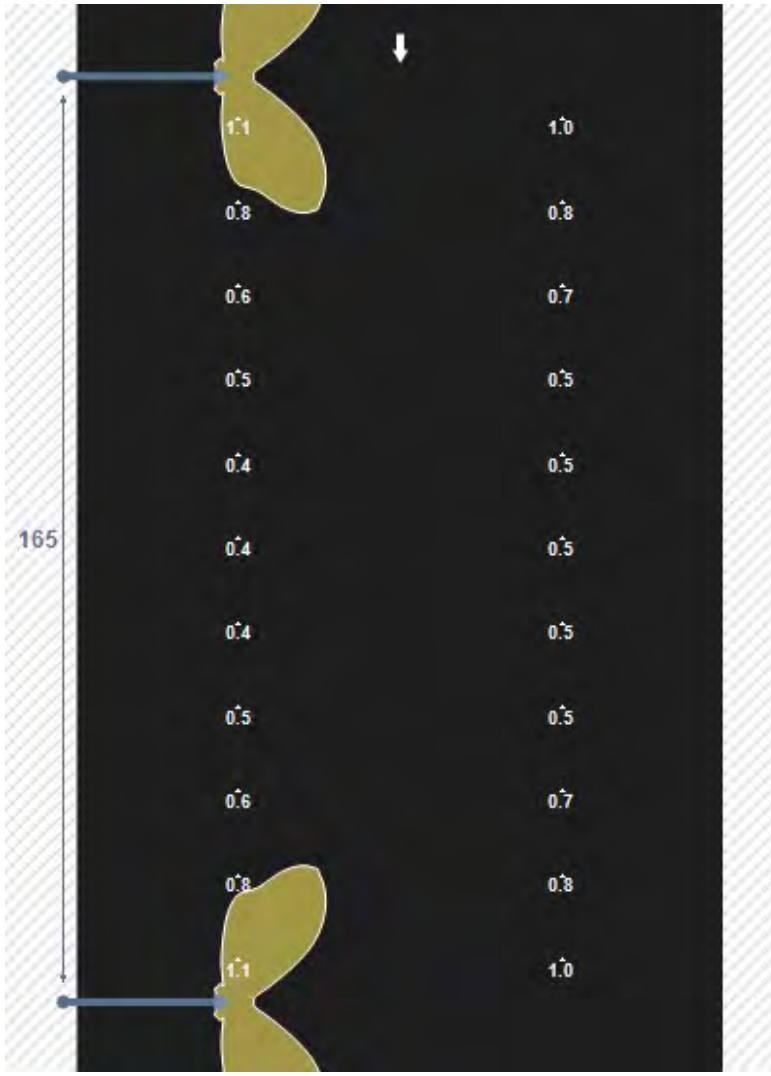

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.1	--	fc
Min	0.4	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

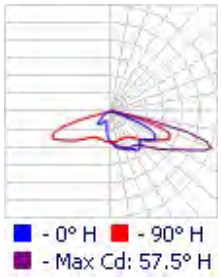
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

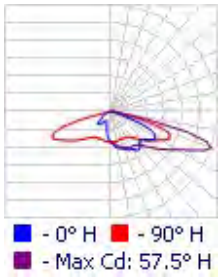
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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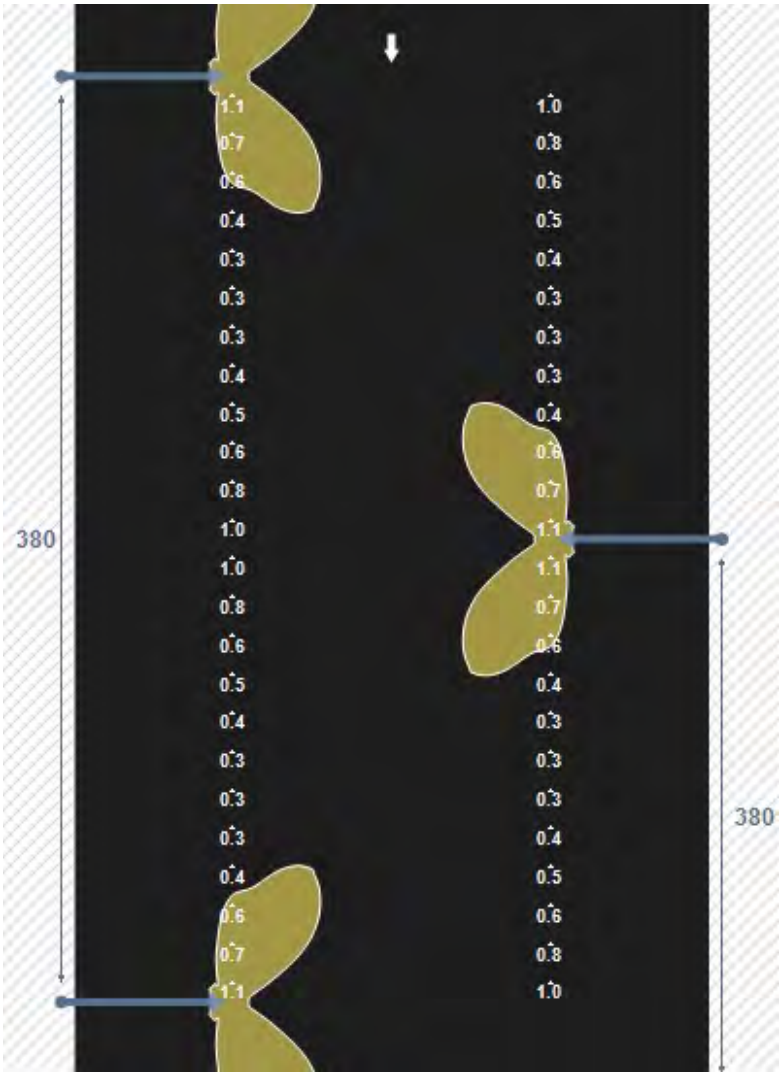

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2.2	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.3	--	fc
Ave/Min:	1.9	--	
Max/Min:	3.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

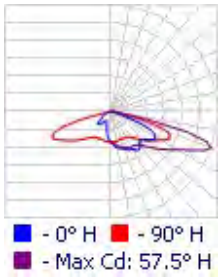
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

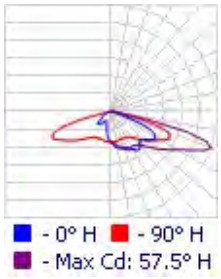
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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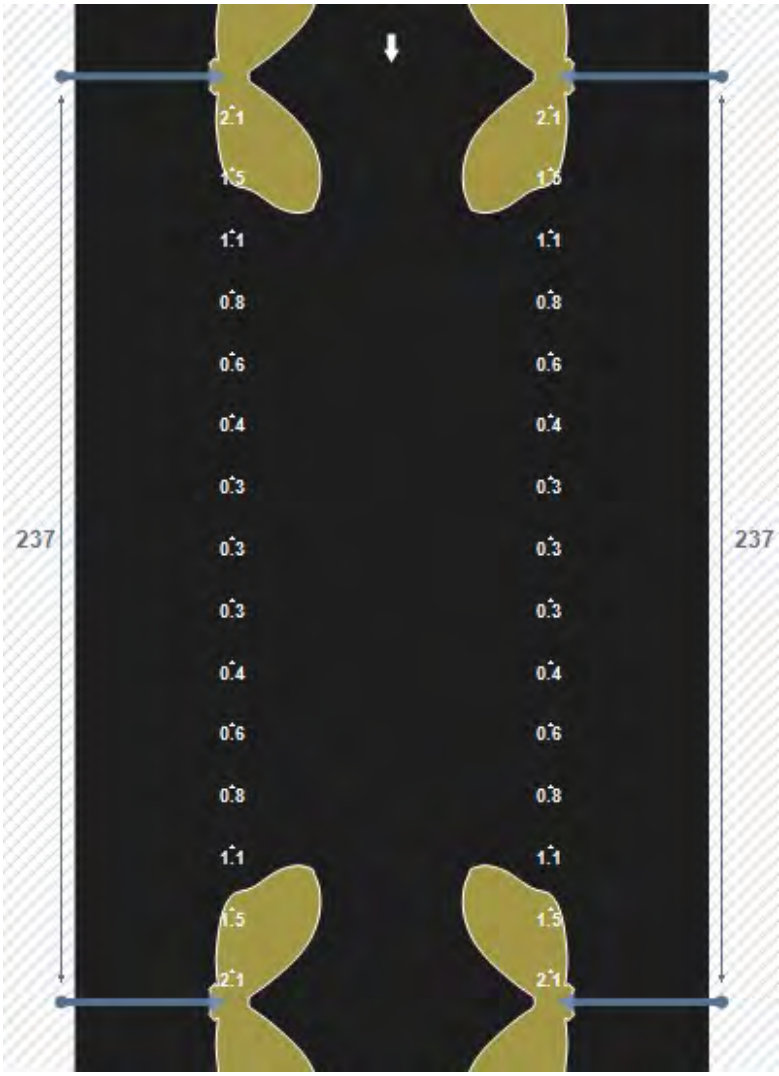

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2.1	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

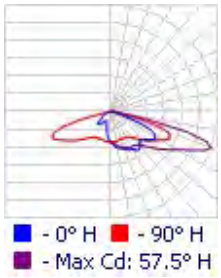
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	202.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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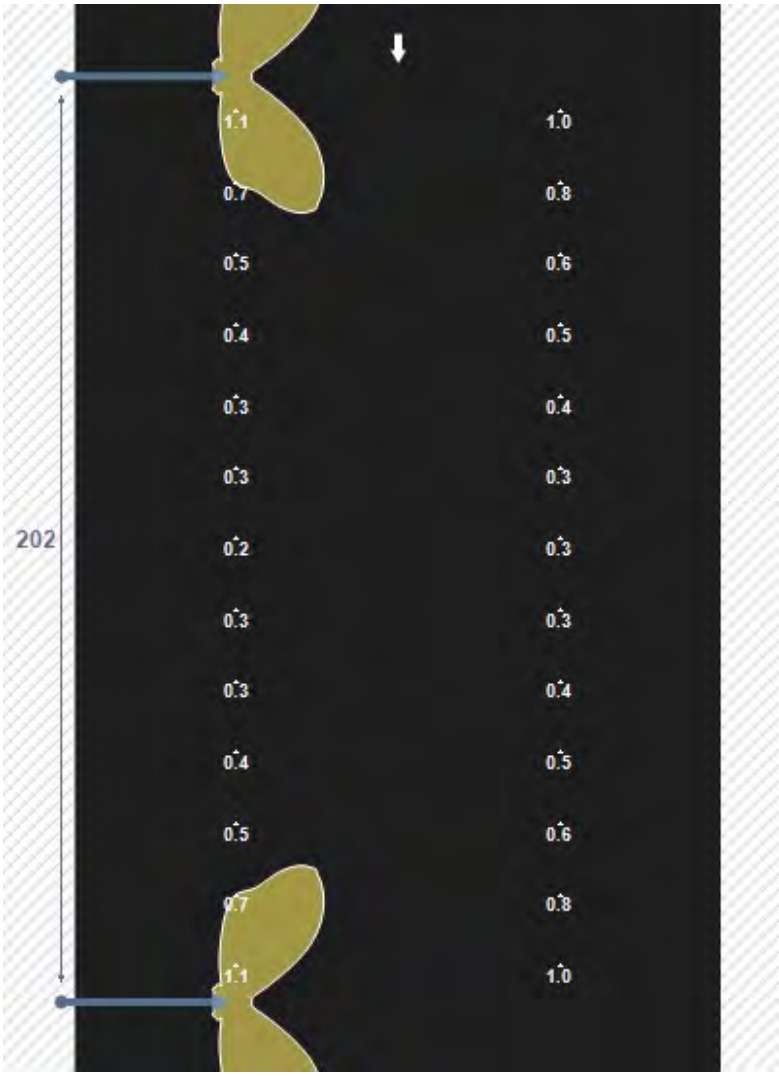

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2.5	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.2	--	fc
Ave/Min:	2.3	--	
Max/Min:	4.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

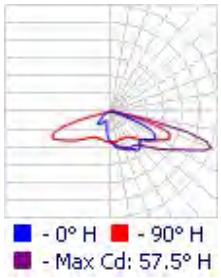
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

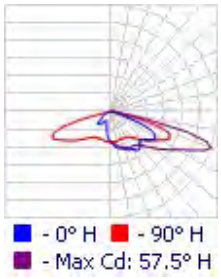
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	400.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	400.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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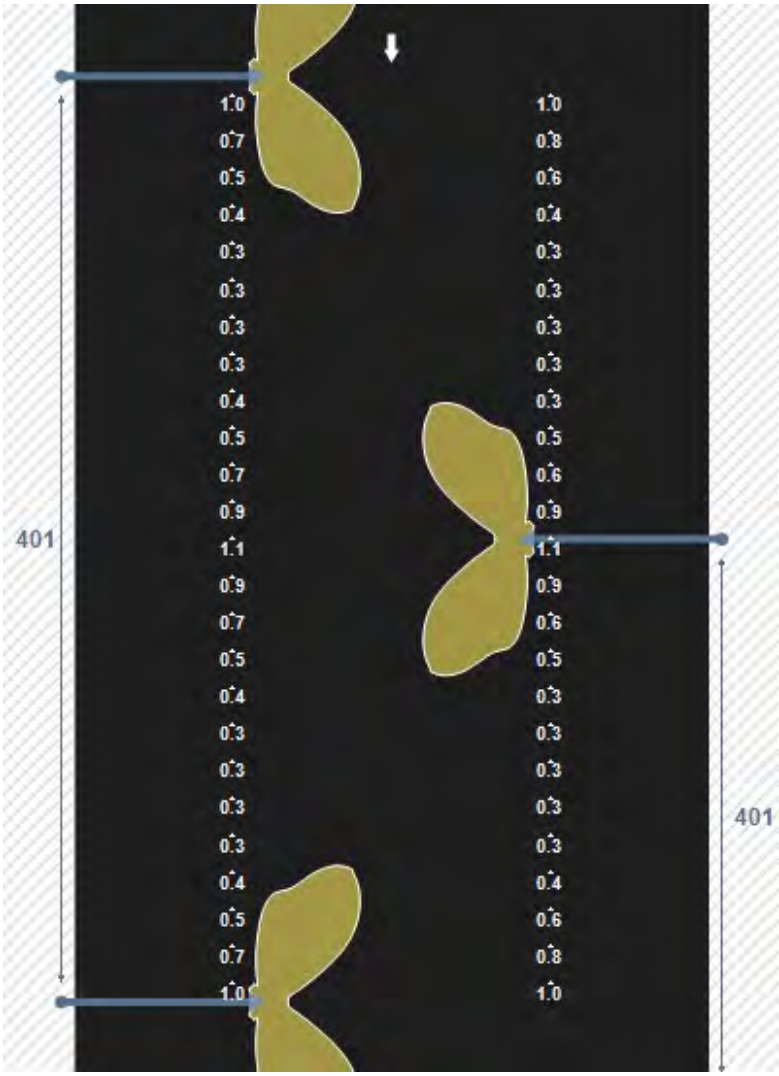

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2.5	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1.1	--	fc
Min	0.3	--	fc
Ave/Min:	2.2	--	
Max/Min:	4.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, April 19, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

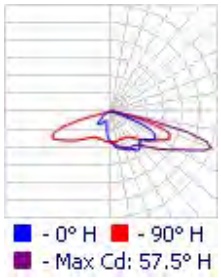
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

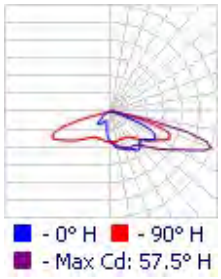
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	194 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	194 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.912	Lamp Count:	1



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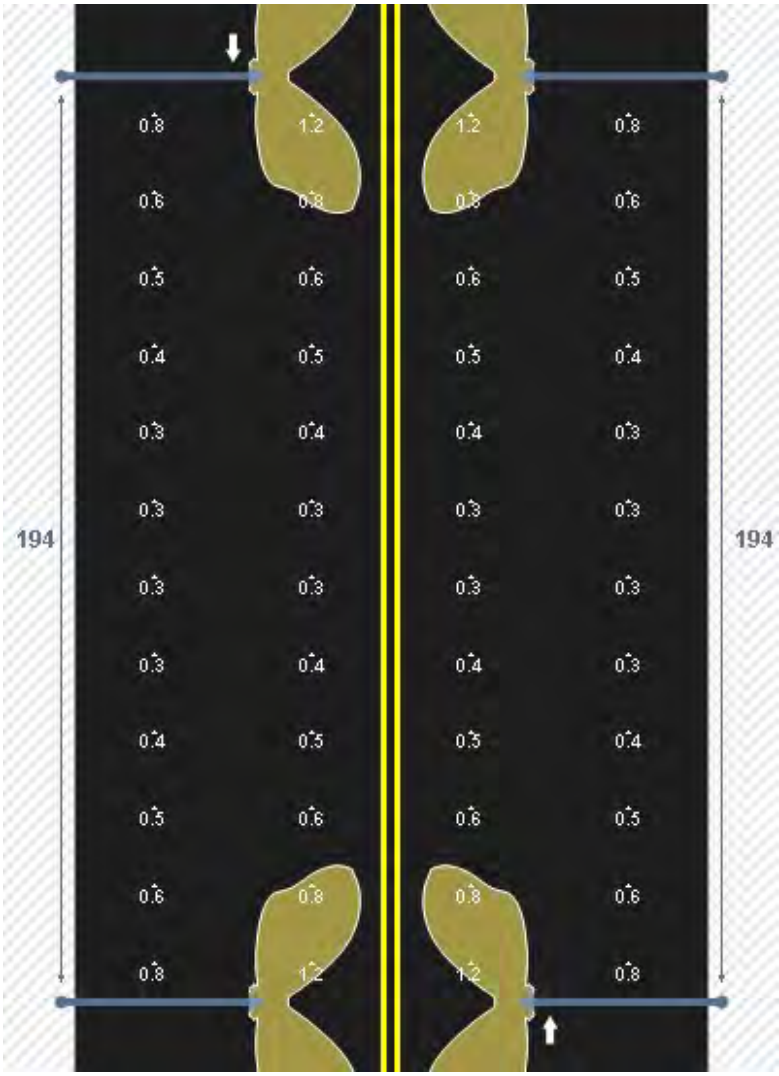
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.6	0.6	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.6	1.6	
Max/Min:	2.1	2.1	
Lv Ratio:	0.2	0.2	
STV:	2.3	2.3	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	1.2	1.2	fc
Min	0.3	0.3	fc
Ave/Min:	2.1	2.1	
Max/Min:	4.6	4.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

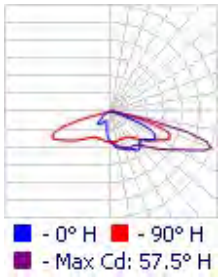
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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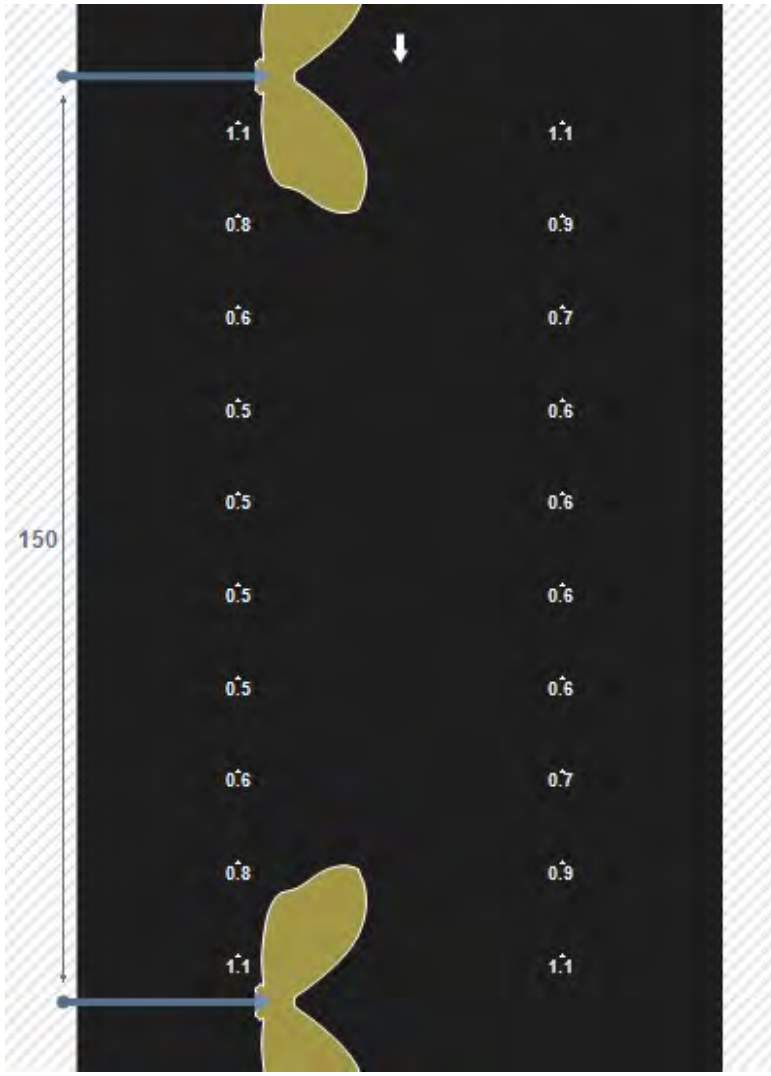

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.6	--	cd/m²
Max:	0.7	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.7	--	fc
Max:	1.1	--	fc
Min	0.5	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

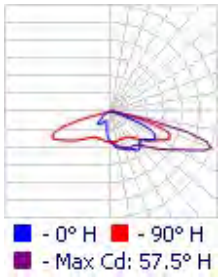
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (6 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

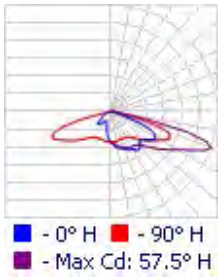
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	380 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	True	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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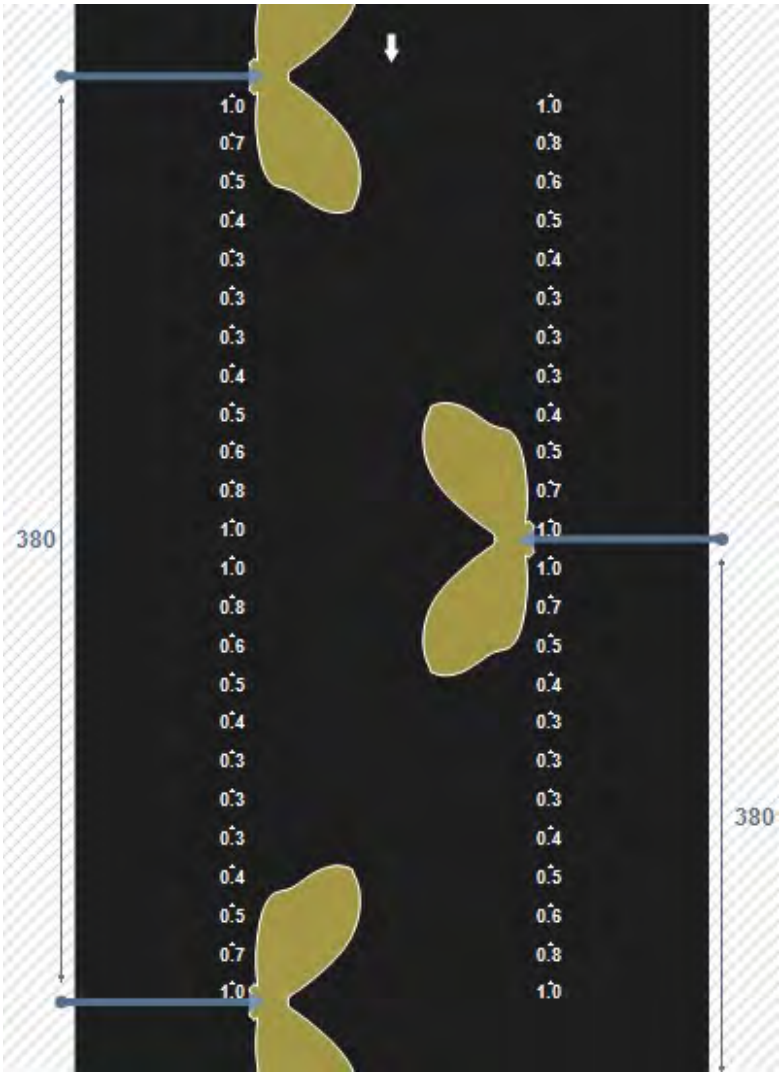

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	2.2	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1	--	fc
Min	0.3	--	fc
Ave/Min:	1.9	--	
Max/Min:	3.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

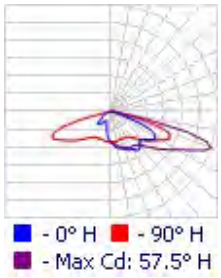
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

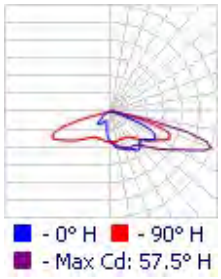
Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	234 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	234 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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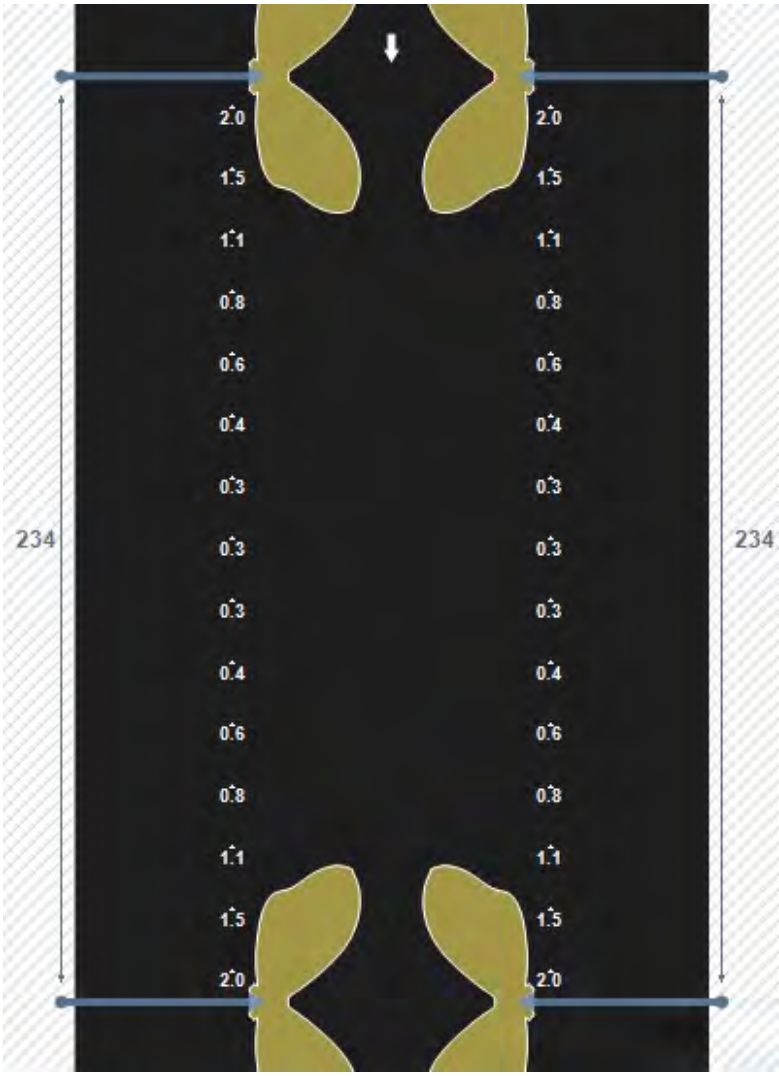

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

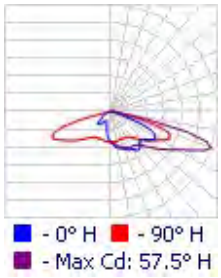
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (5 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE10 XXXXX R3 3K

Cycle Spacing:	200.07 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	11936
Staggered:	False	Wattage:	105
Light Loss Factor:	0.88	Lamp Count:	1



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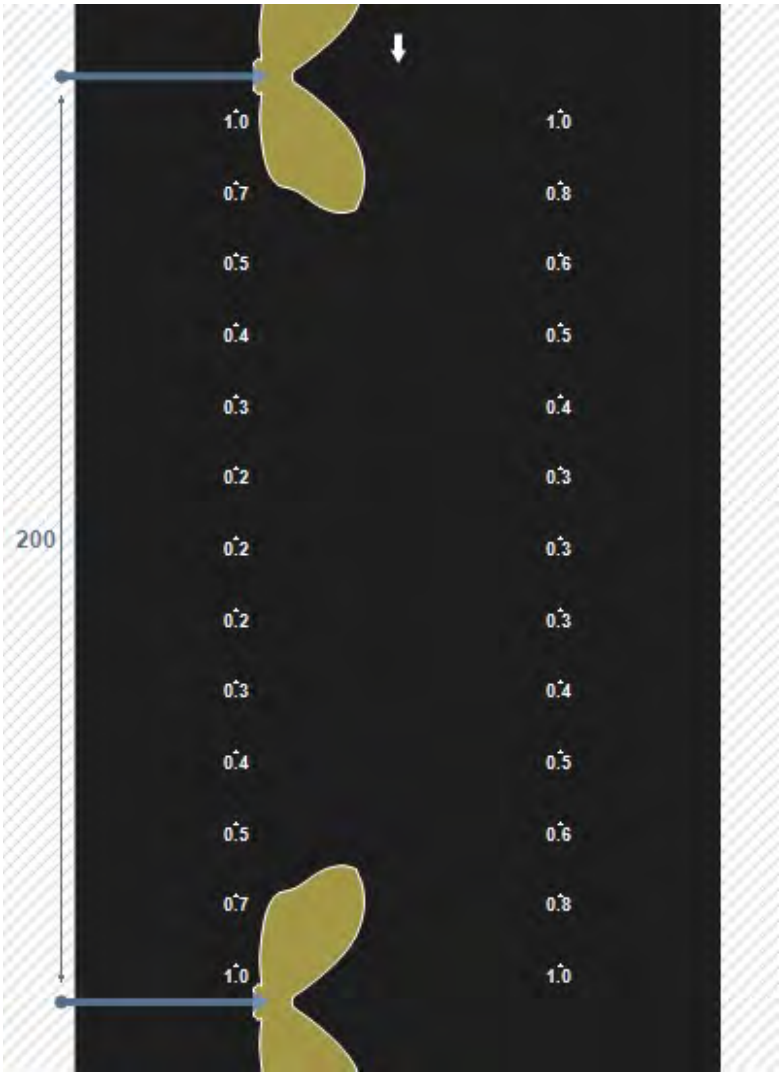
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.5	--	cd/m²
Max:	0.6	--	cd/m²
Min	0.3	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	2.5	--	

Illuminance	Left	Right	
Average:	0.6	--	fc
Max:	1	--	fc
Min	0.2	--	fc
Ave/Min:	2.4	--	
Max/Min:	4.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

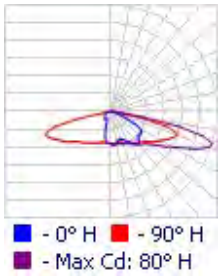
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	162.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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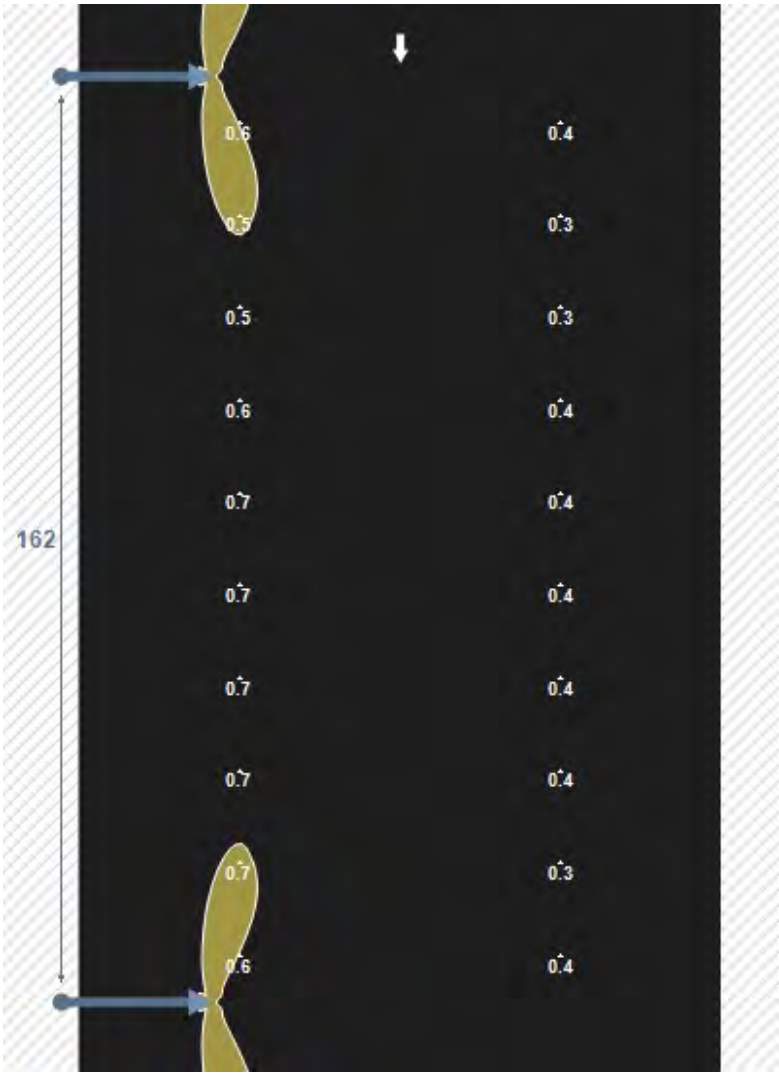

Luminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.5	--	cd/m²	Average:	0.6	--	fc	Average:	--	--	fc
Max:	0.7	--	cd/m²	Max:	1.2	--	fc	Min	--	--	fc
Min	0.3	--	cd/m²	Min	0.3	--	fc	Ave/Min:	--	--	
Ave/Min:	1.7	--		Ave/Min:	2.1	--		Ev Min:	--	--	fc
Max/Min:	2.4	--		Max/Min:	4.6	--		**Bikelane**			
Lv Ratio:	0.3	--						Average:	--	--	fc
STV:	2.1	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

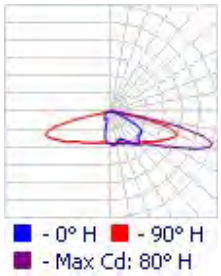
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

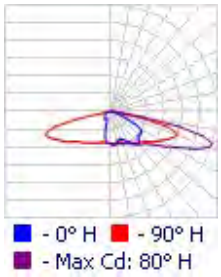
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	215.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	215.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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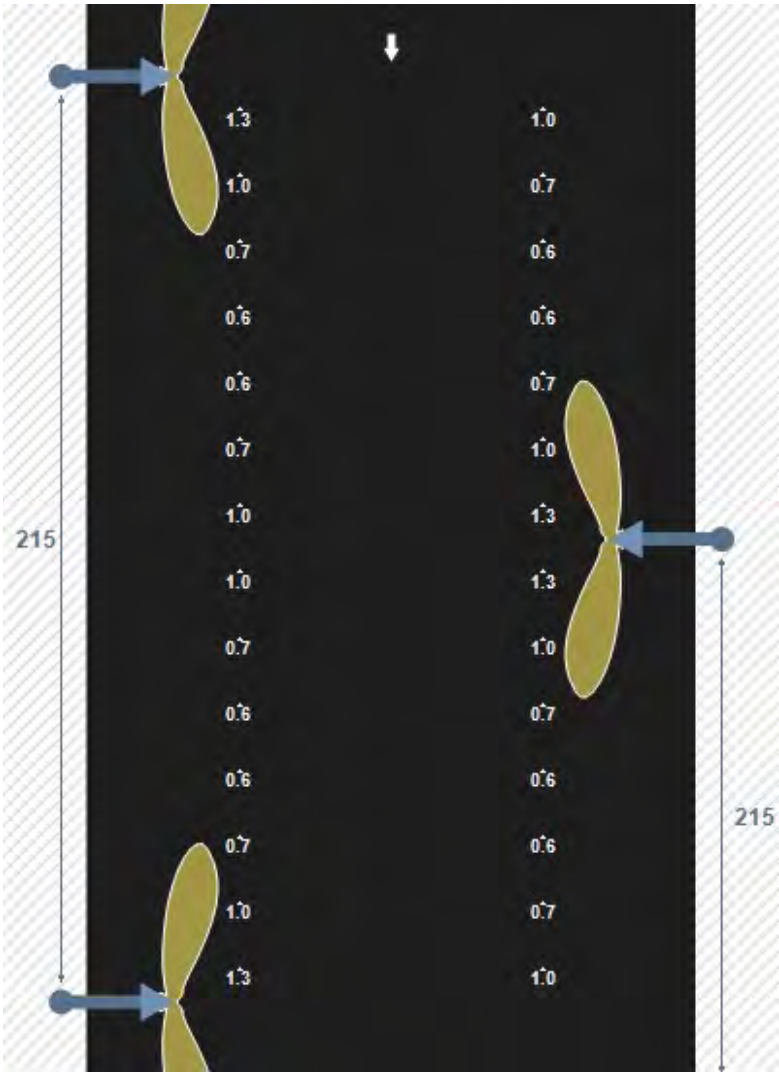

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

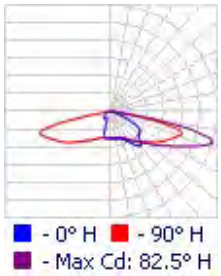
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

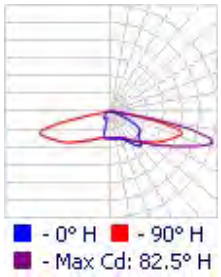
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	117.12 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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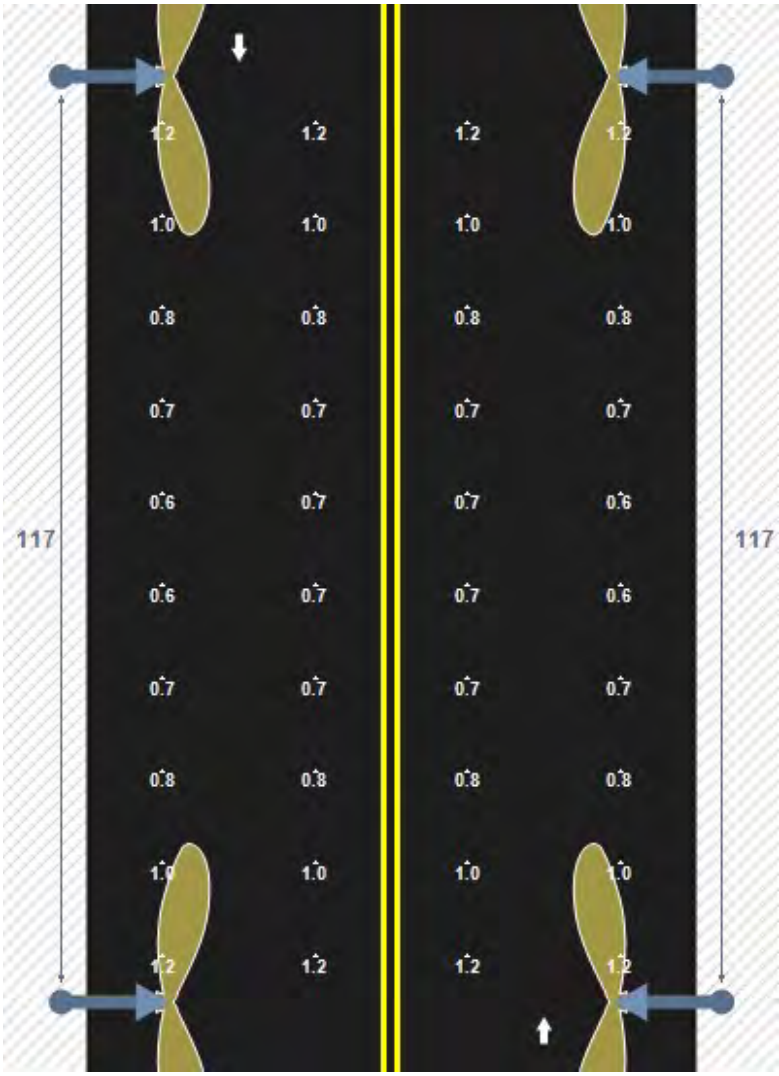

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

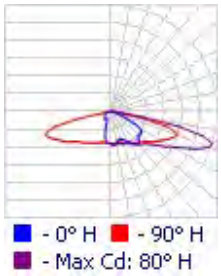
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	100 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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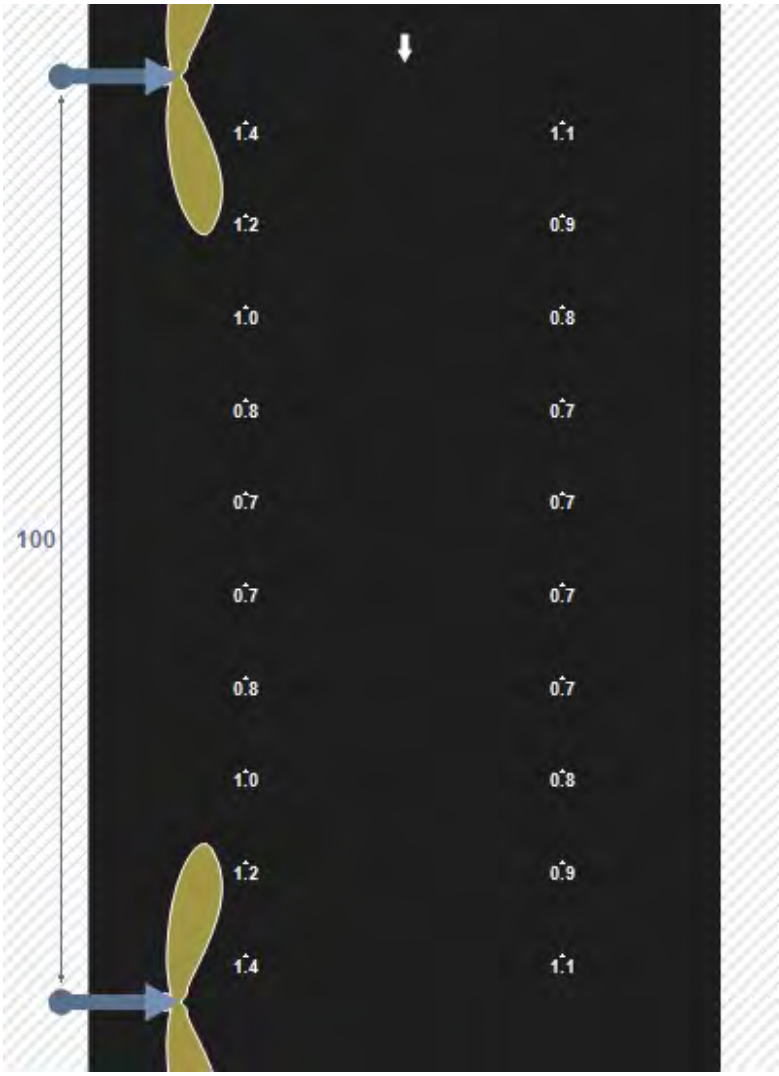

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.2	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

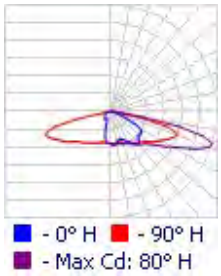
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

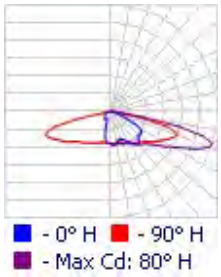
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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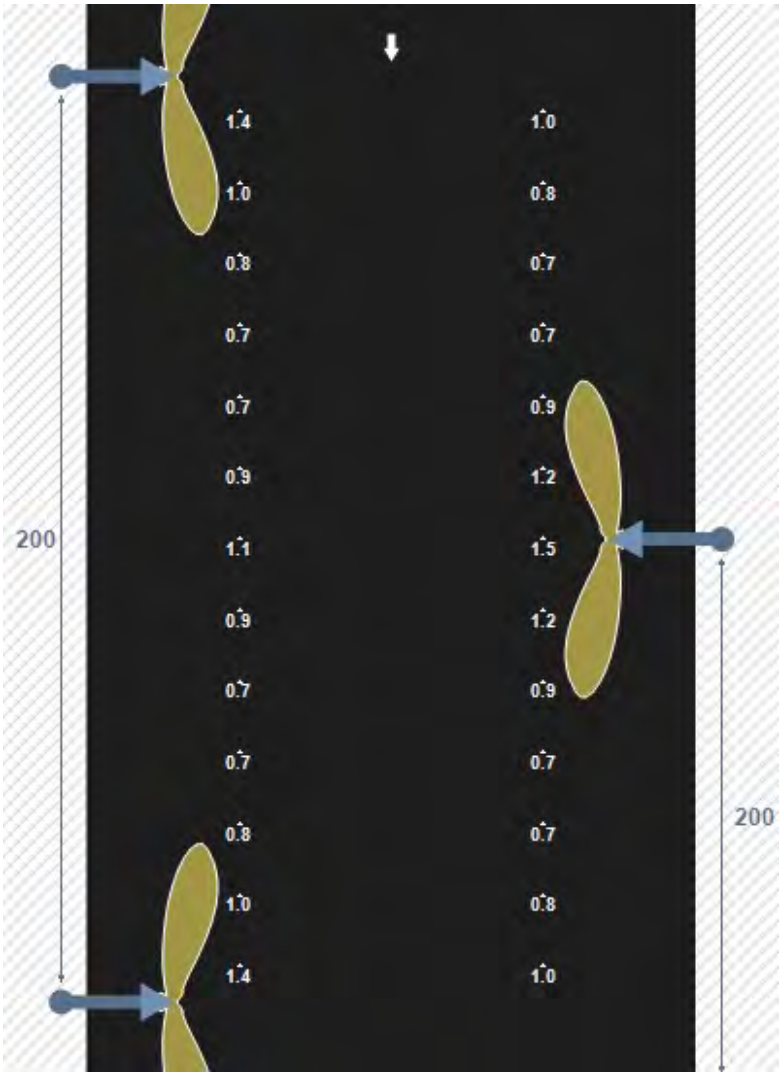

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.7	--	fc
Ave/Min:	1.3	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

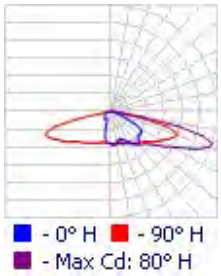
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

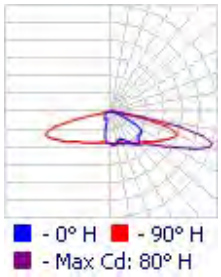
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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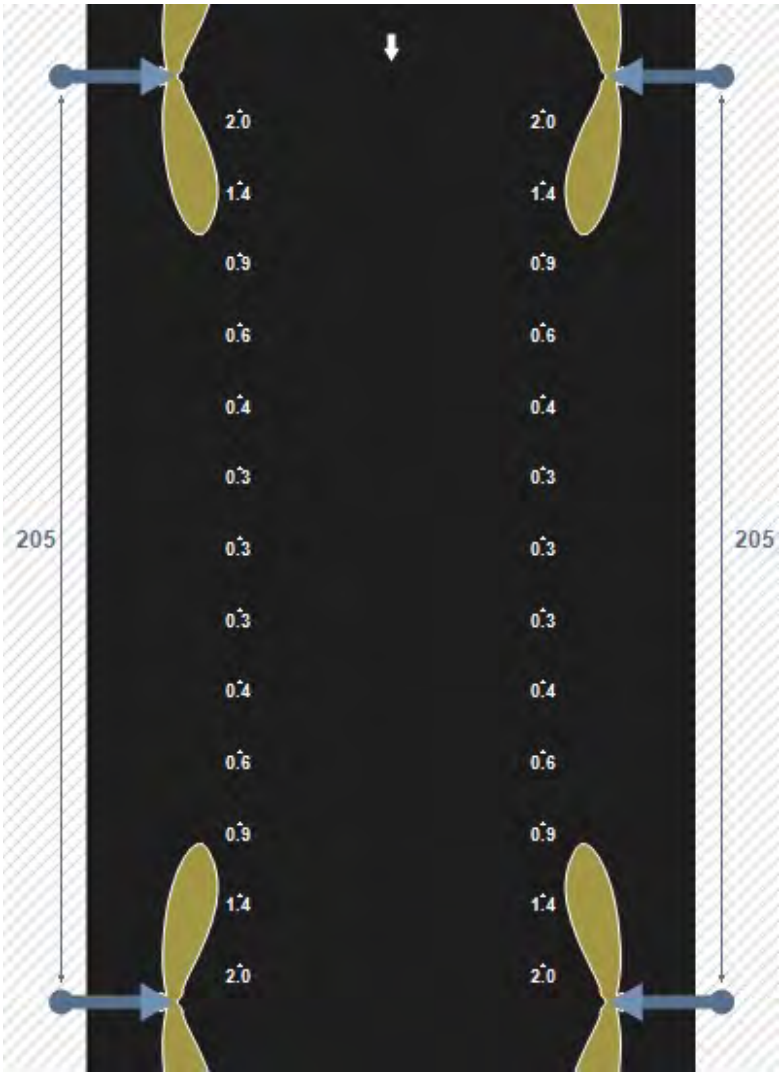

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.3	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

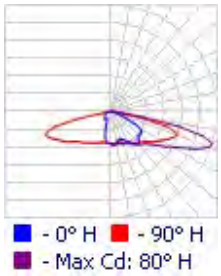
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	107.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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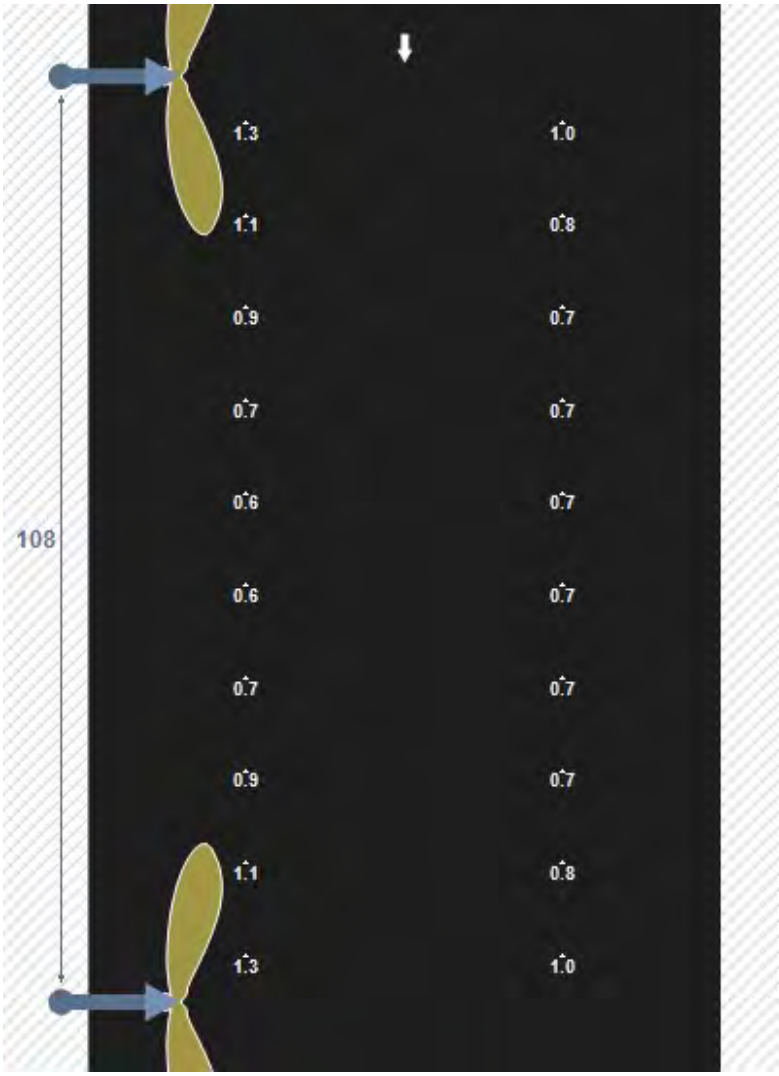

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.2	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

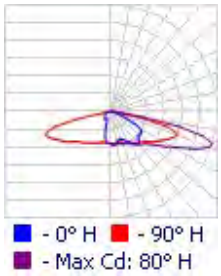
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

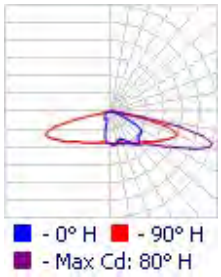
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	215.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	215.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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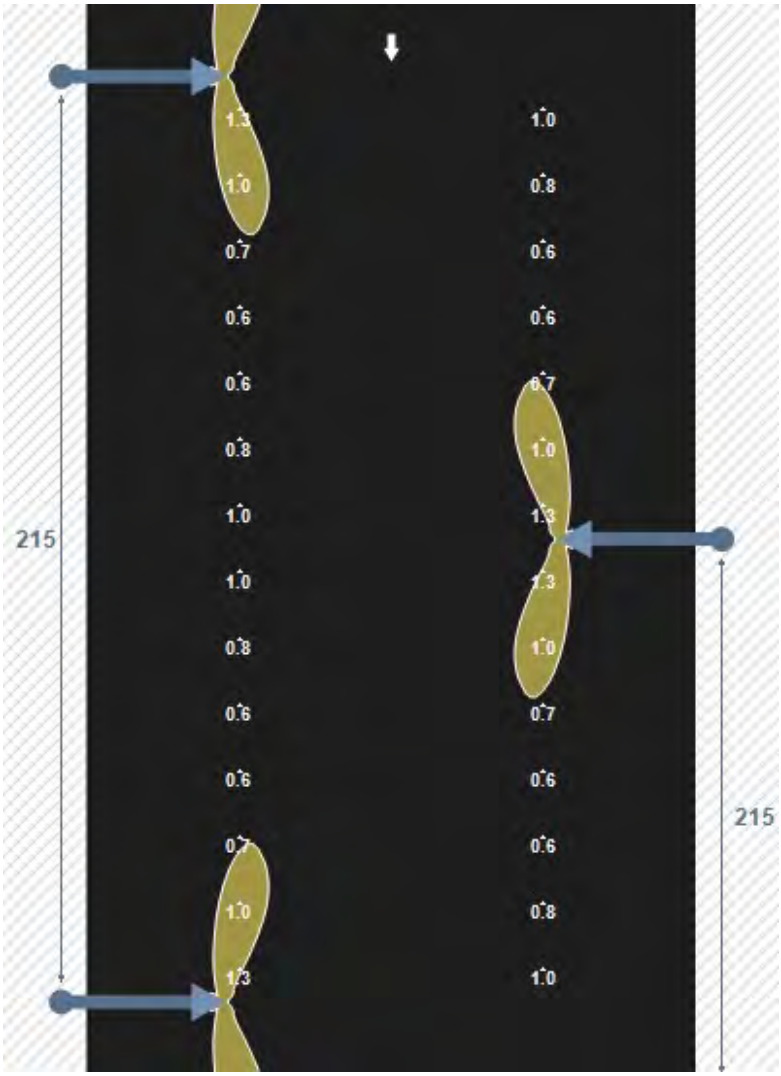

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

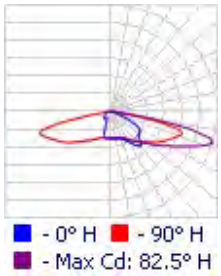
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

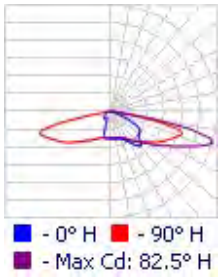
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	118.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	118.67 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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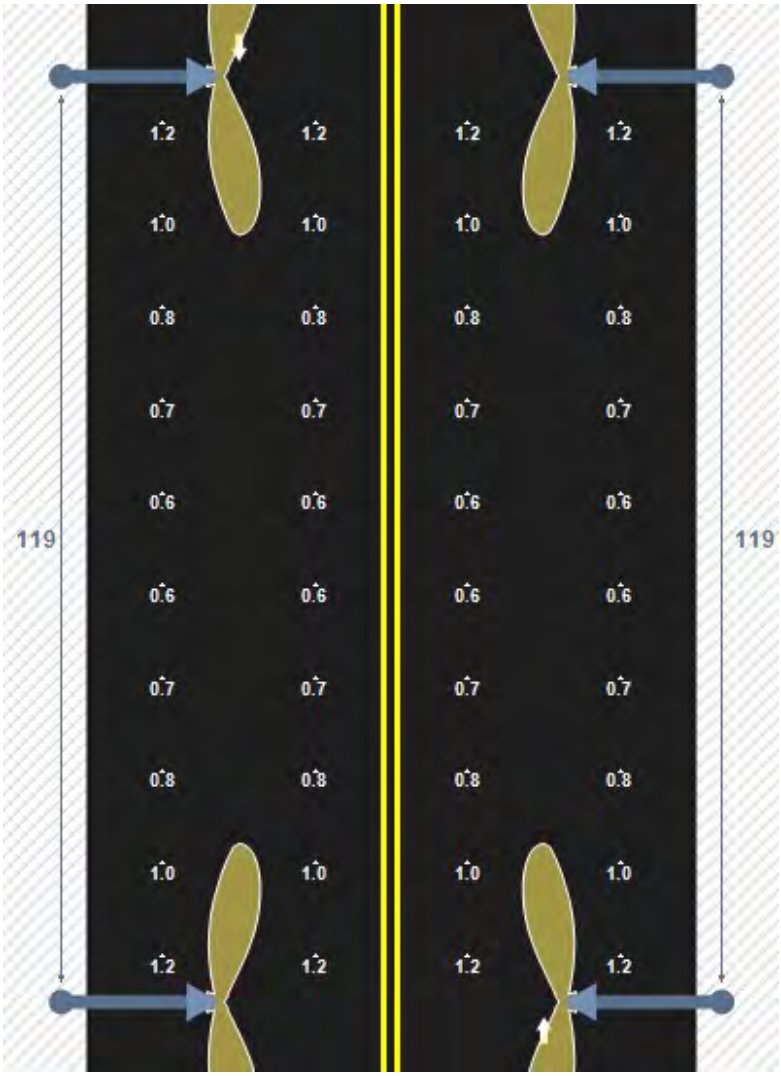
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

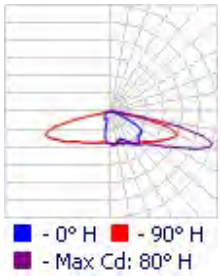
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	105 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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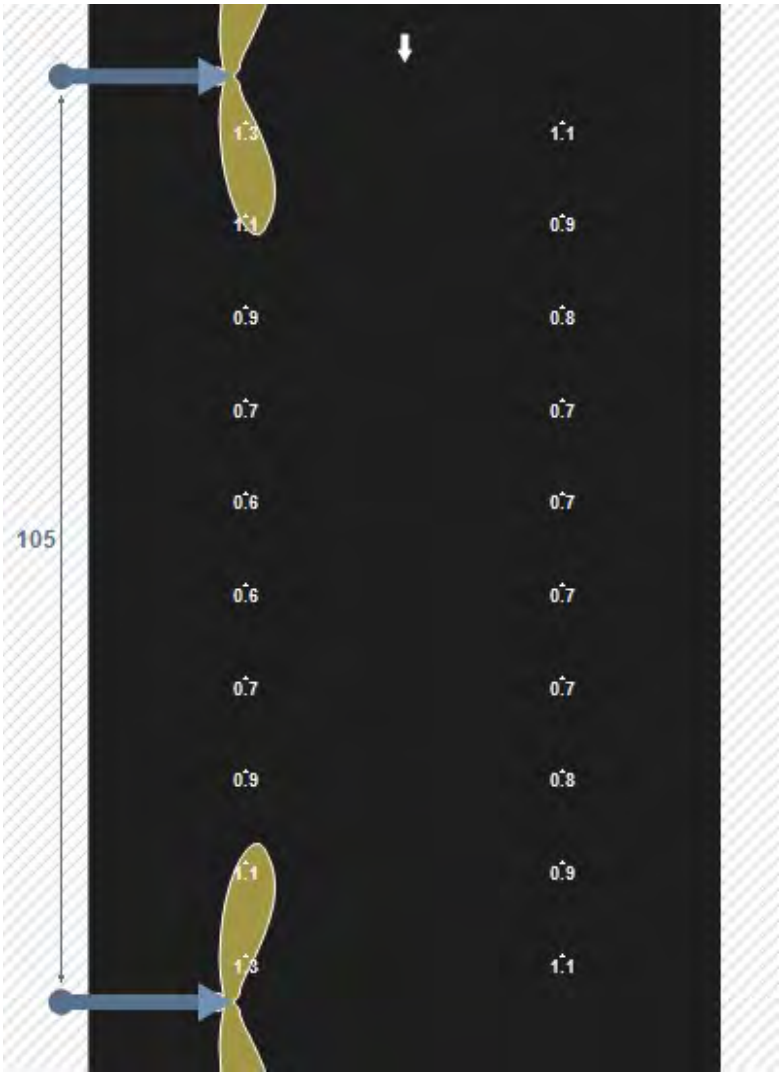

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.2	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

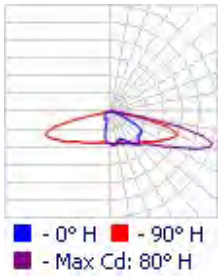
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

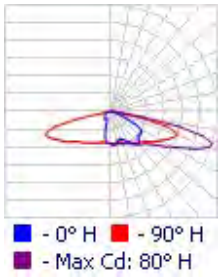
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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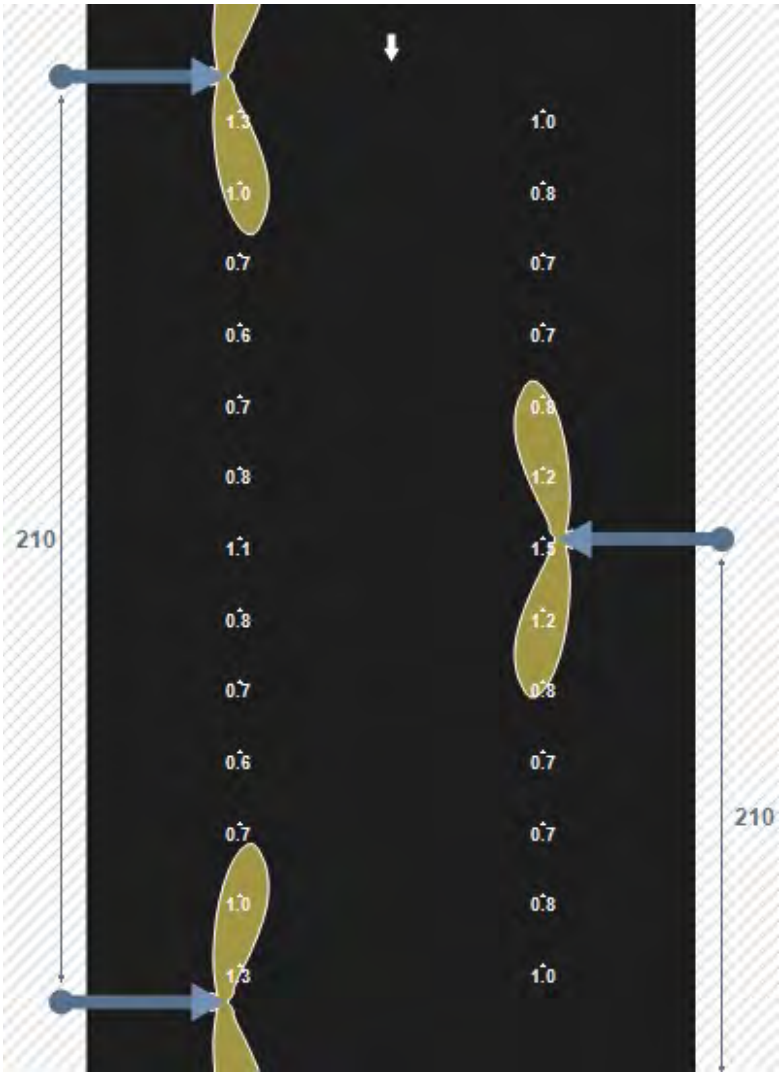

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

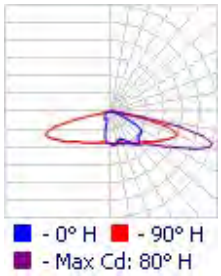
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

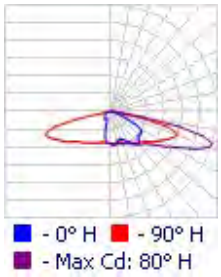
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	200.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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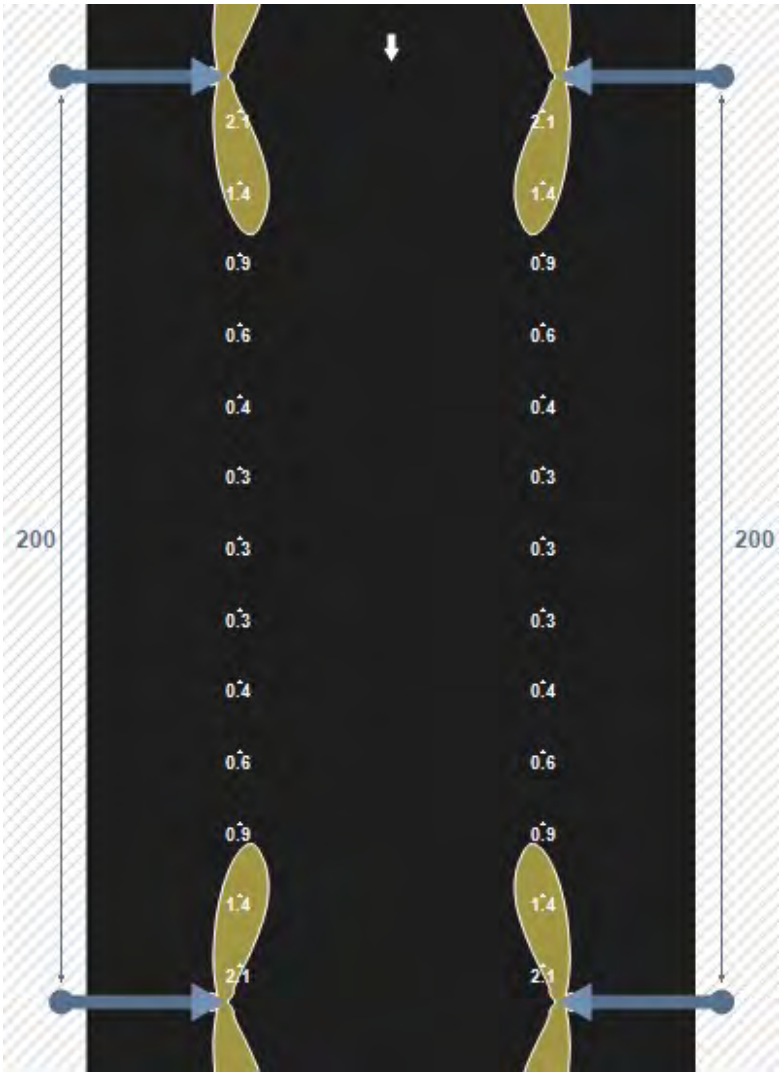

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.3	--	
STV:	3.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2.1	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

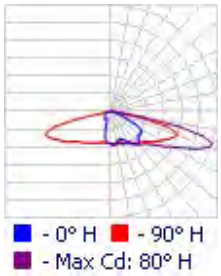
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	107.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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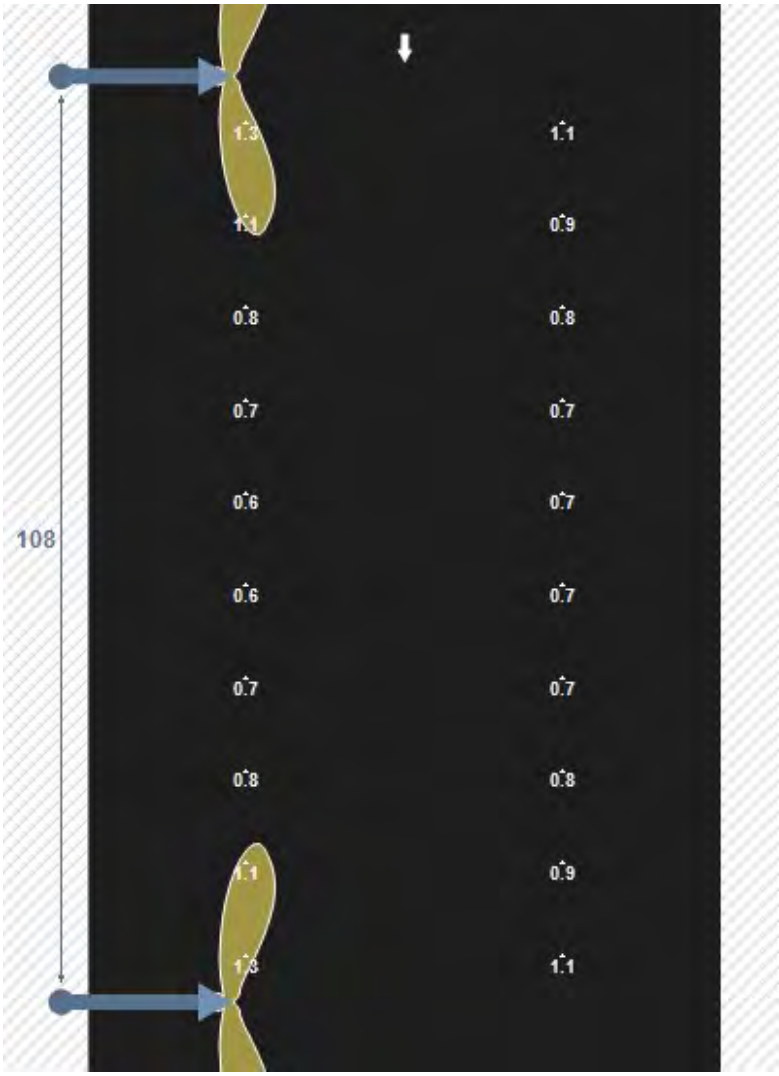

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.2	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

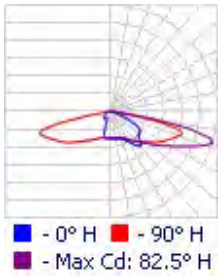
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

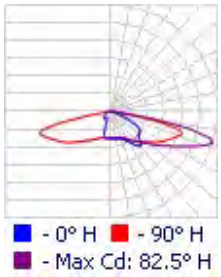
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	118.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	118.11 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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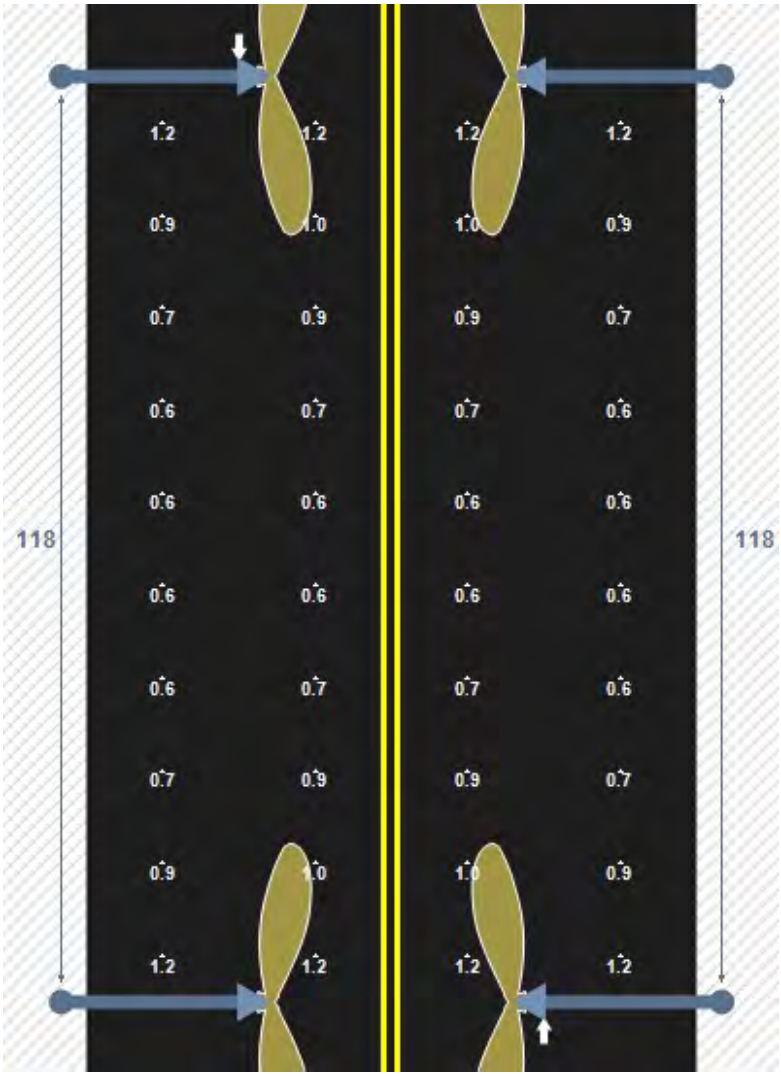

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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Your Email

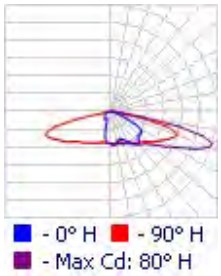
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	105 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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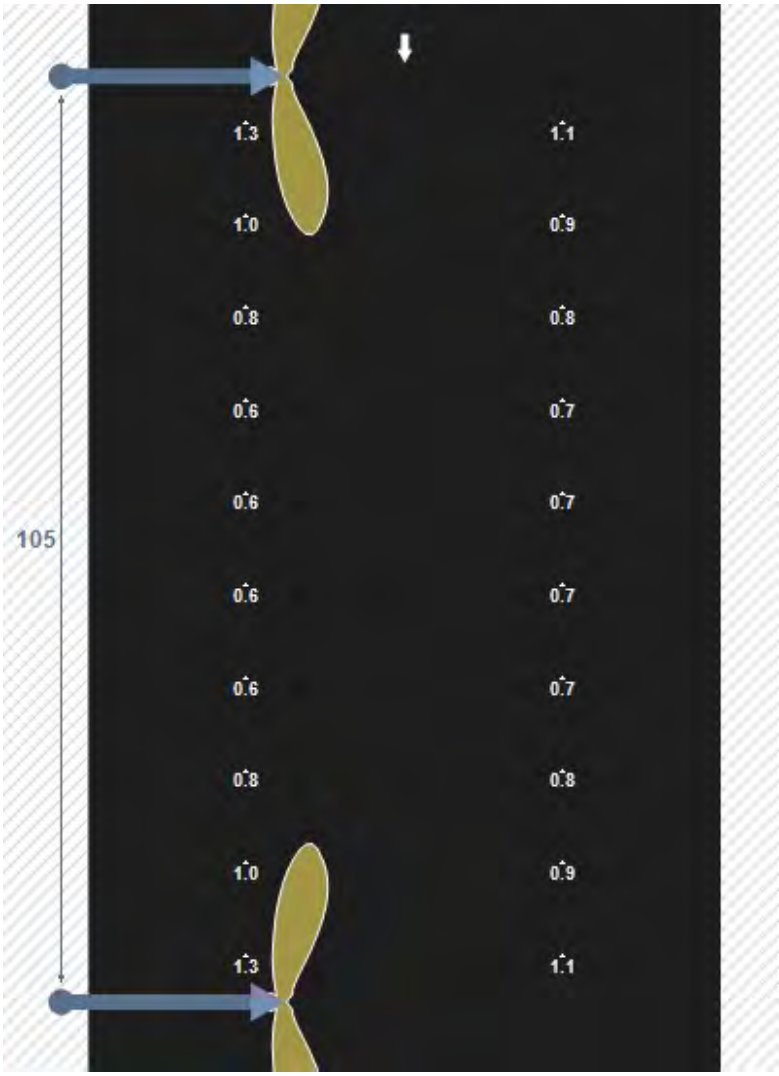

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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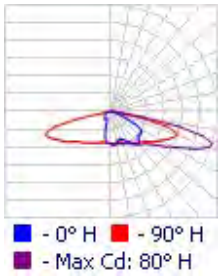
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

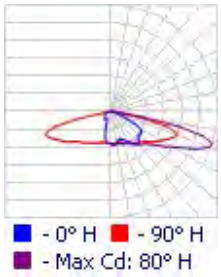
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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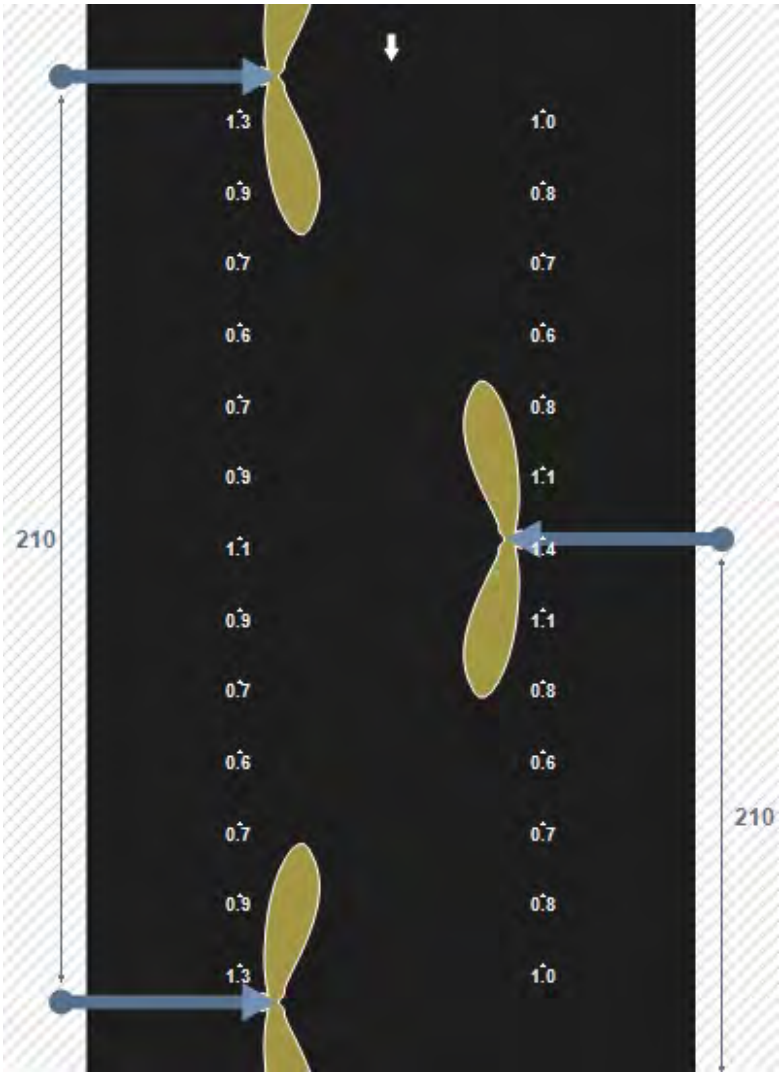

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

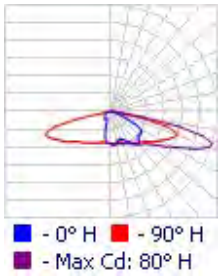
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

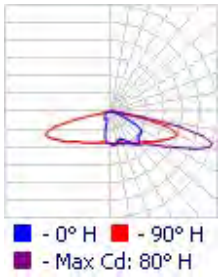
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	199.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	199.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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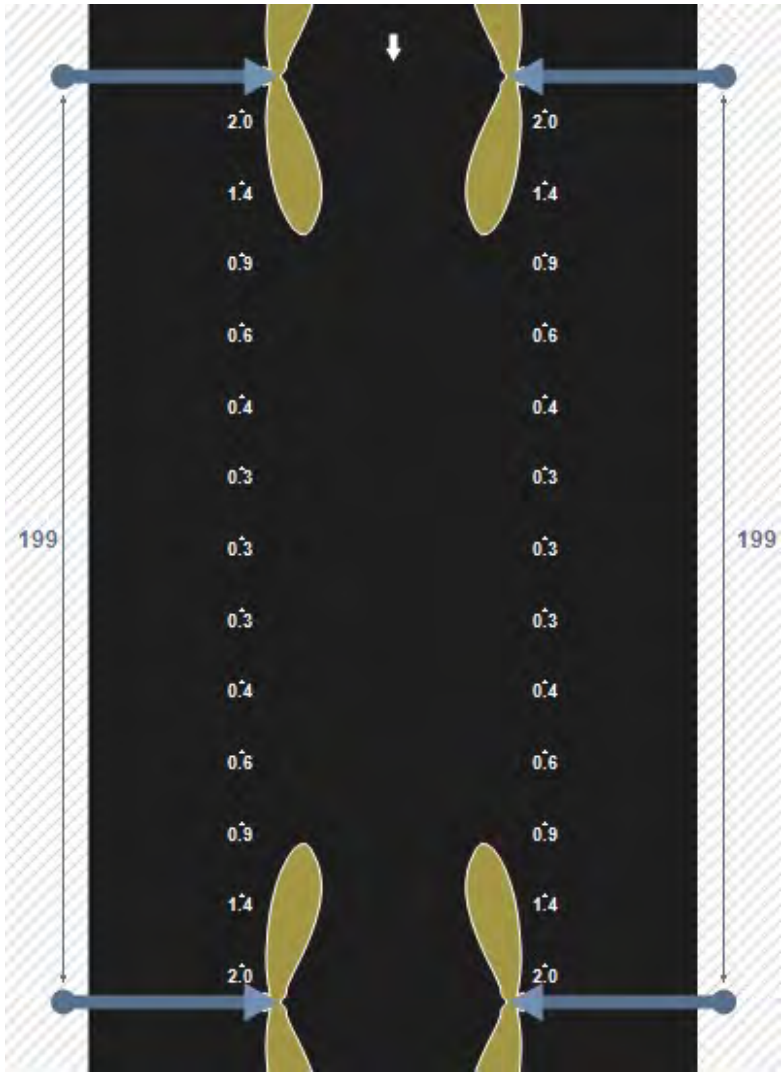

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.3	--	
STV:	3.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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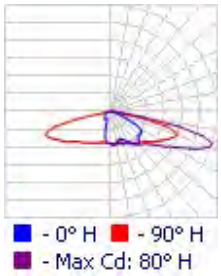
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	105.75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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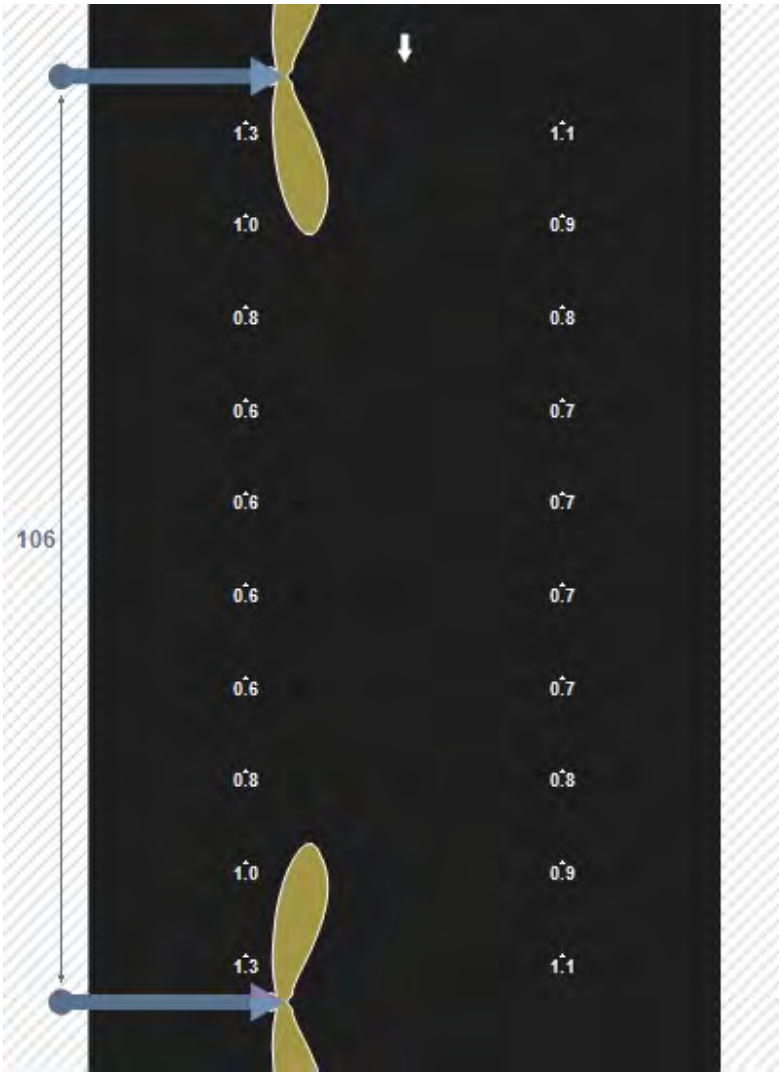

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Your Email

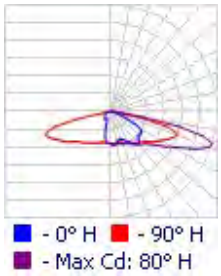
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

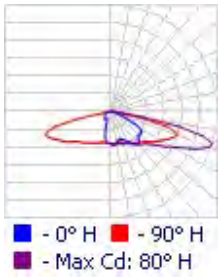
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	196.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	196.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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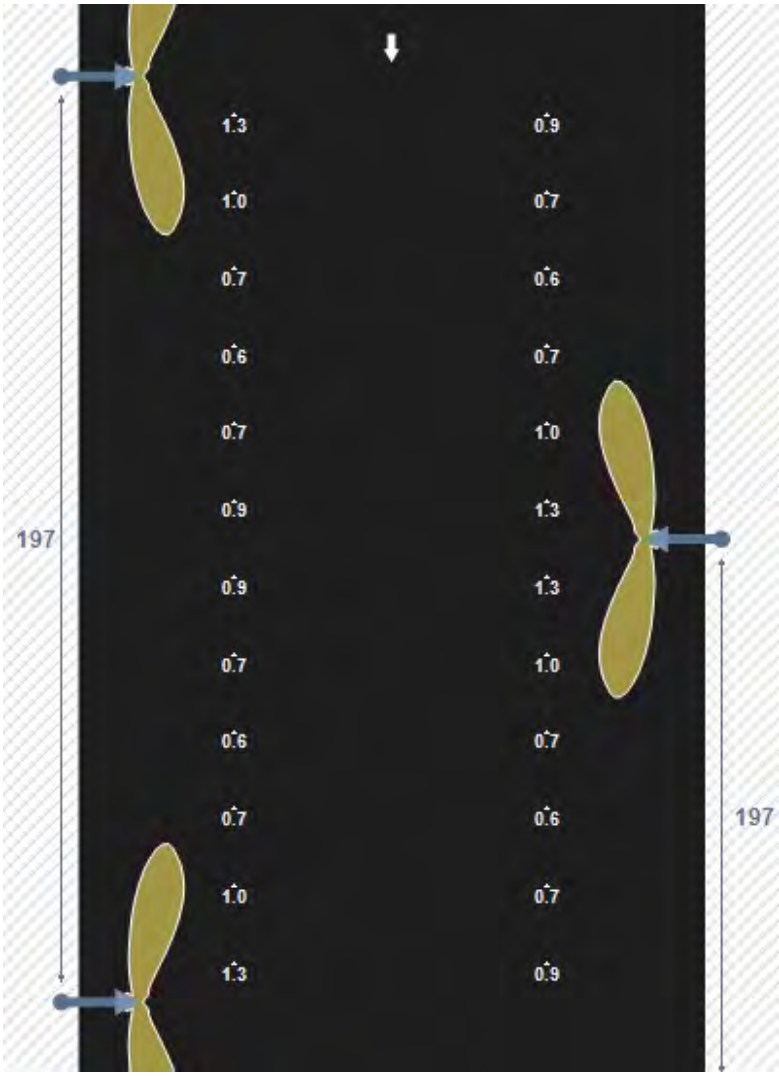

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.2	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

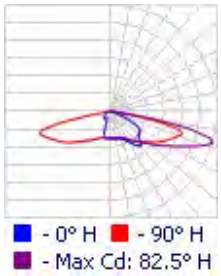
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (19 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

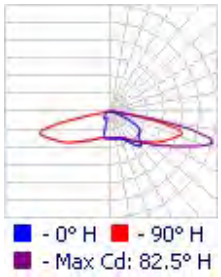
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	107.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	107.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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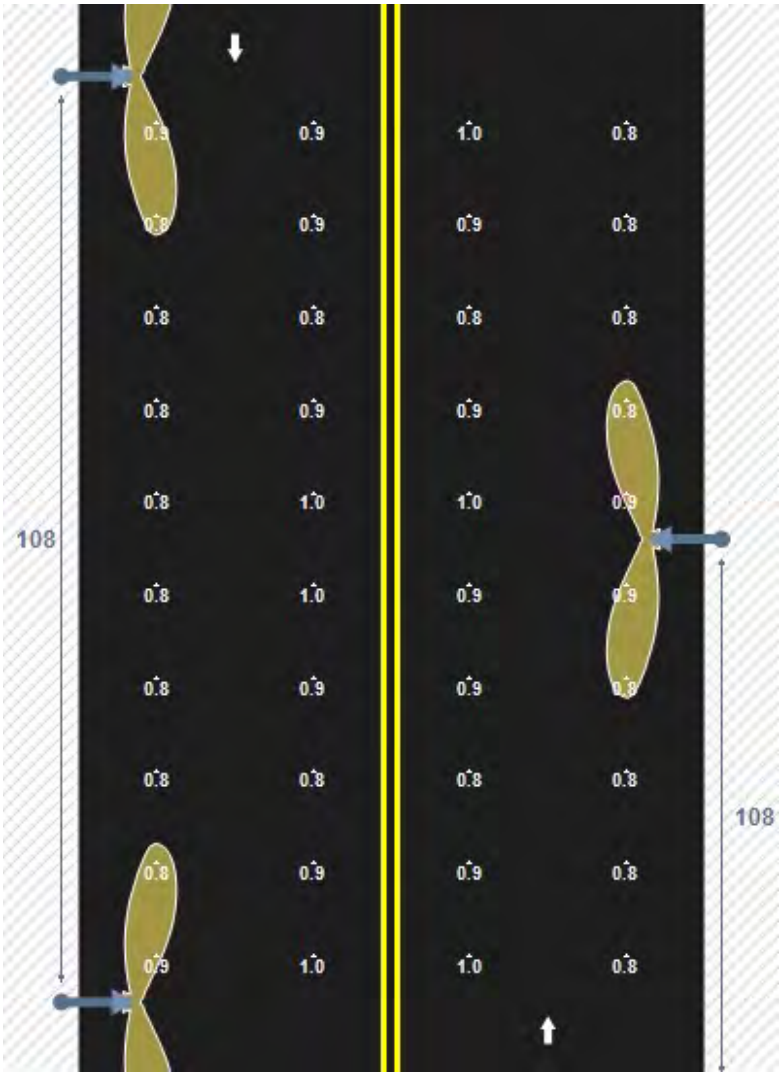

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1	1	fc
Min	0.8	0.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

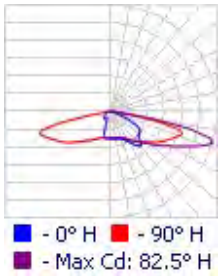
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

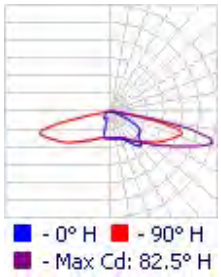
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	107.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	107.52 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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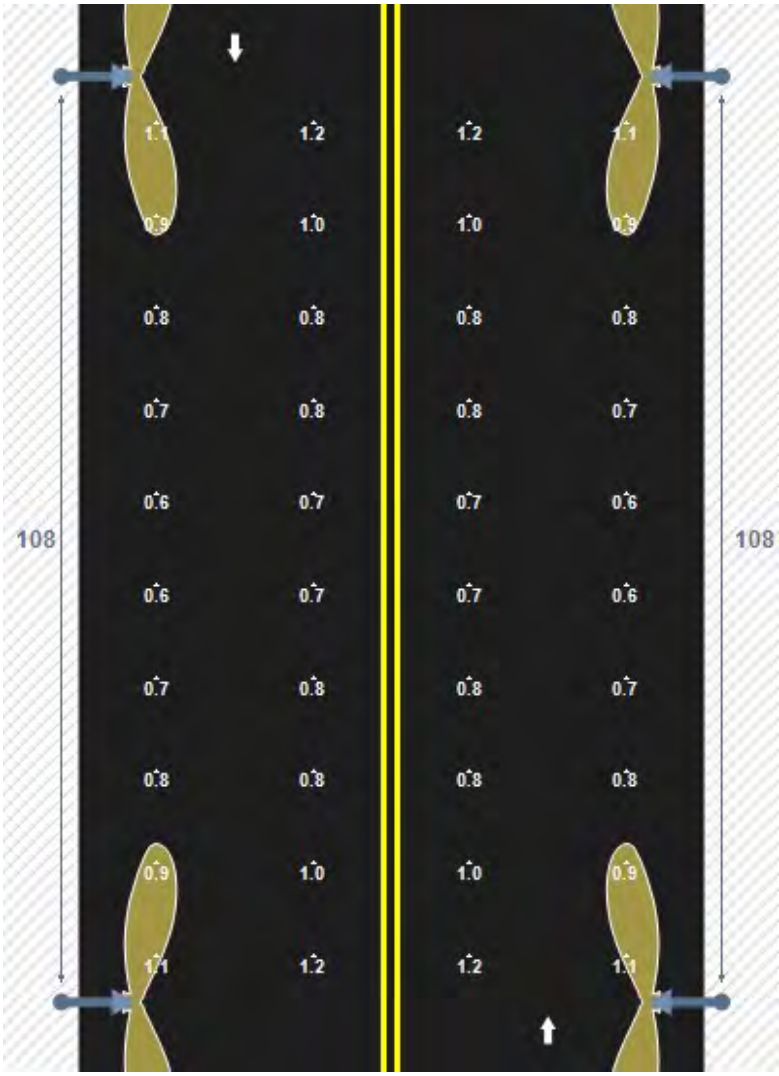

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.1	1.1	
Lv Ratio:	0.2	0.2	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

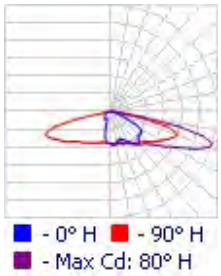
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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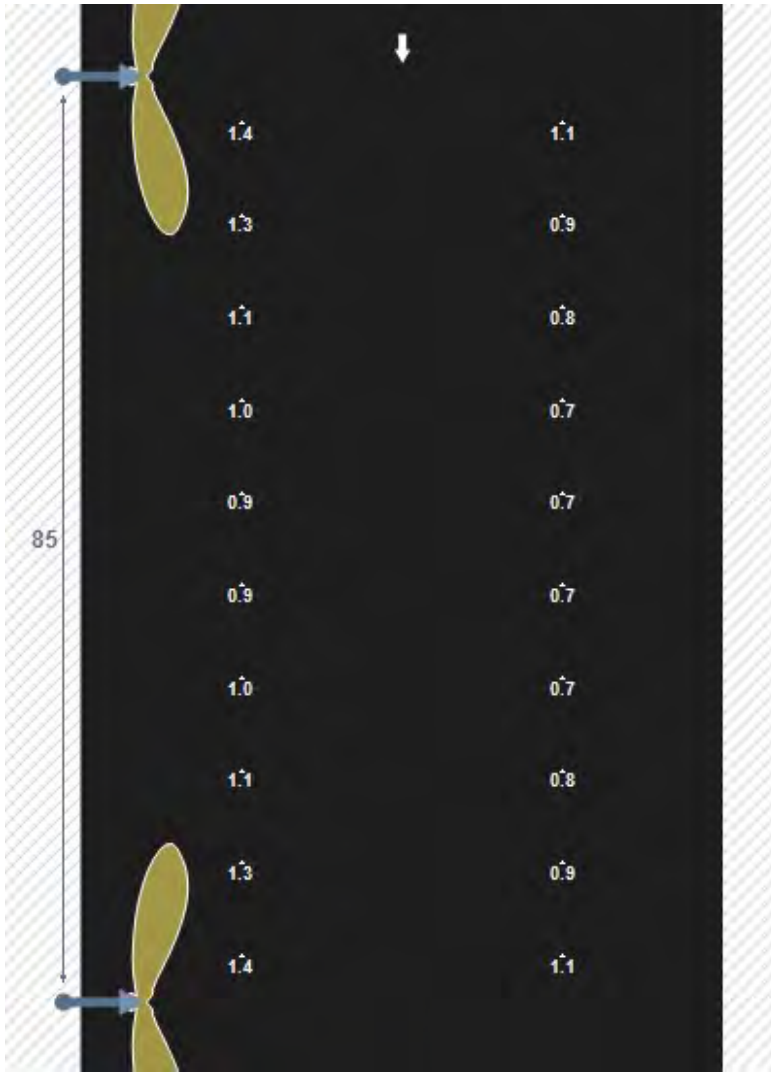

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

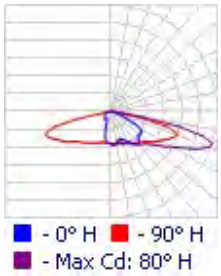
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

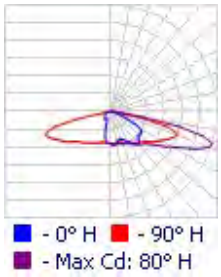
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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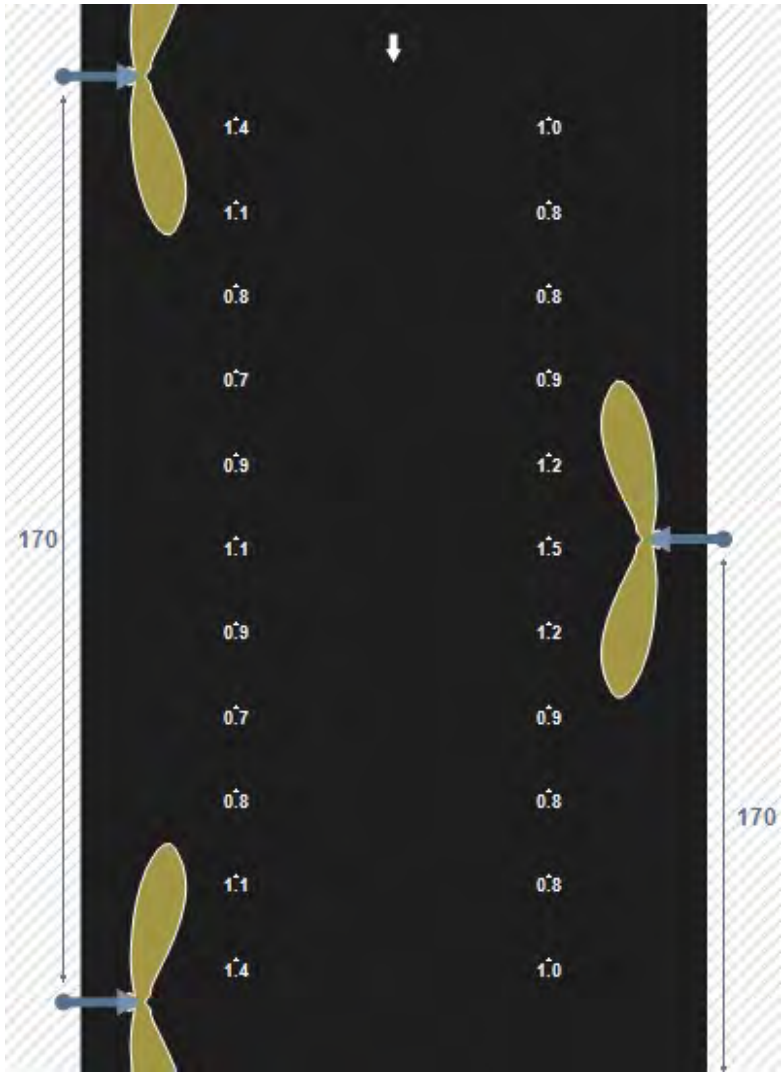

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	0.9	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.7	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

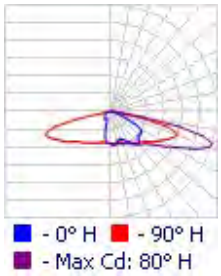
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

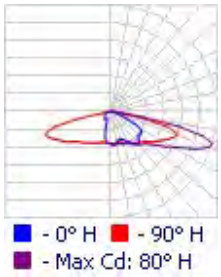
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	196.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	196.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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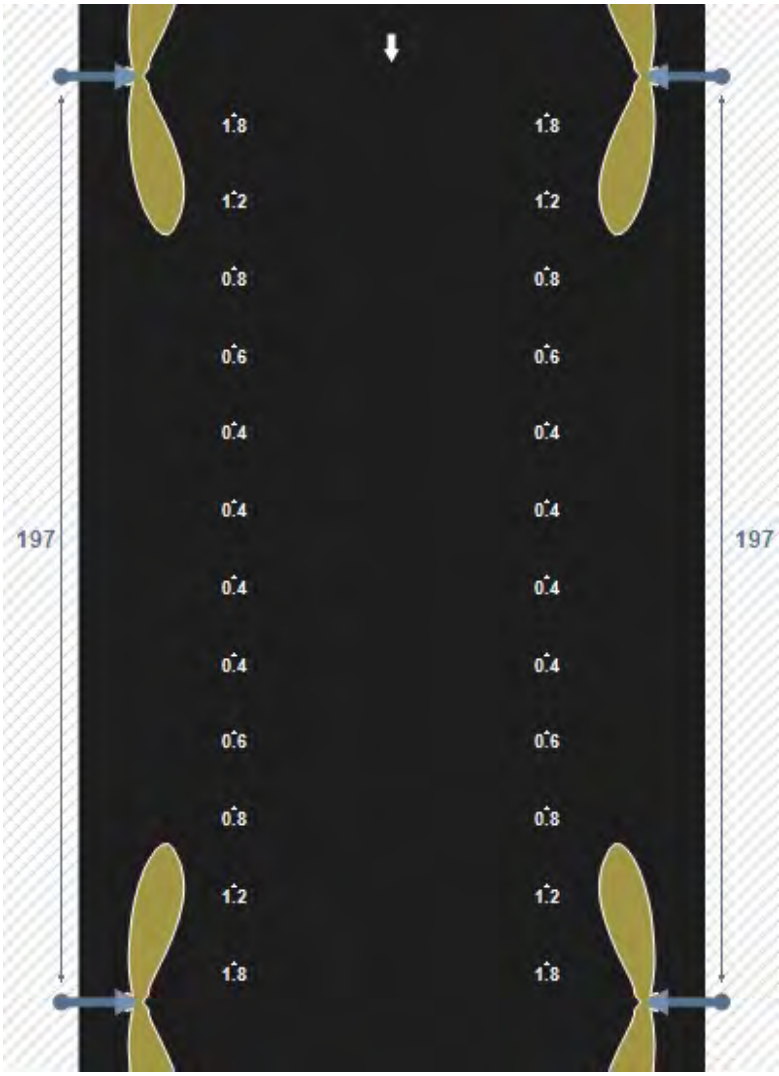
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.7	--	
Lv Ratio:	0.3	--	
STV:	3.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.8	--	fc
Min	0.4	--	fc
Ave/Min:	2.4	--	
Max/Min:	5.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

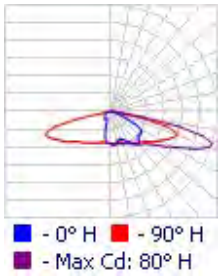
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	98.16 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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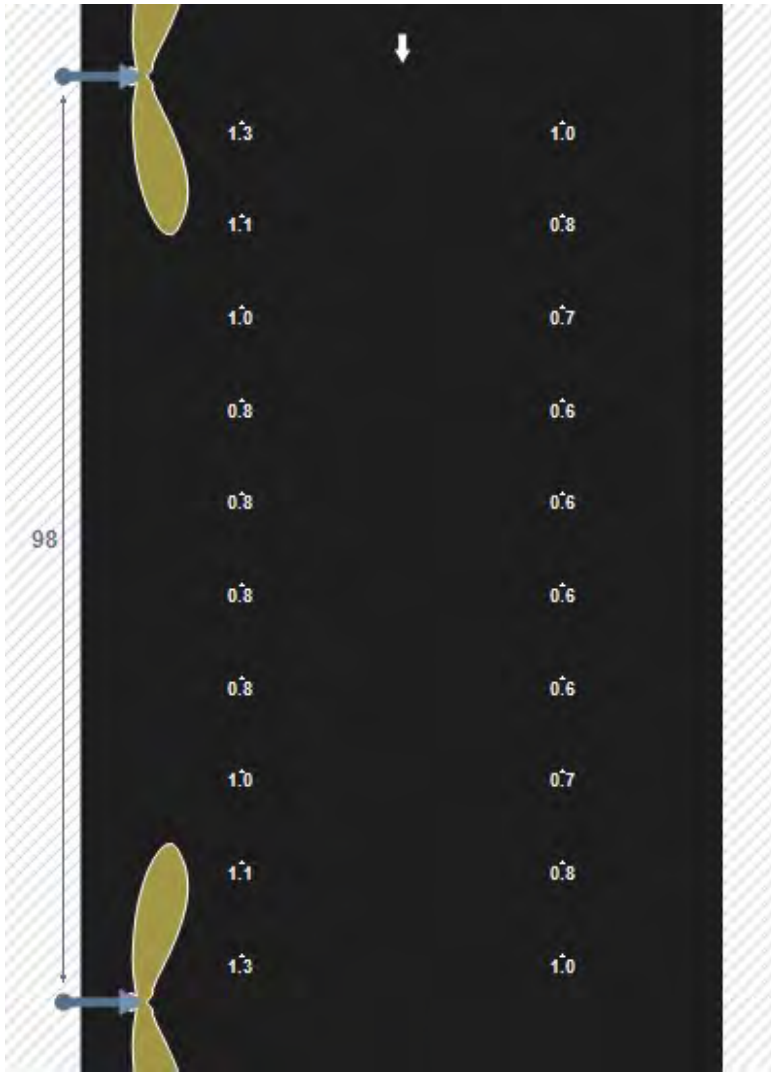

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

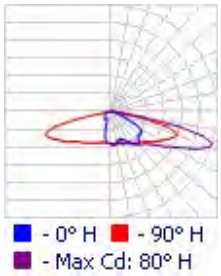
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

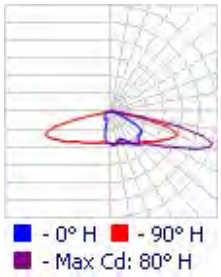
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	204.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	204.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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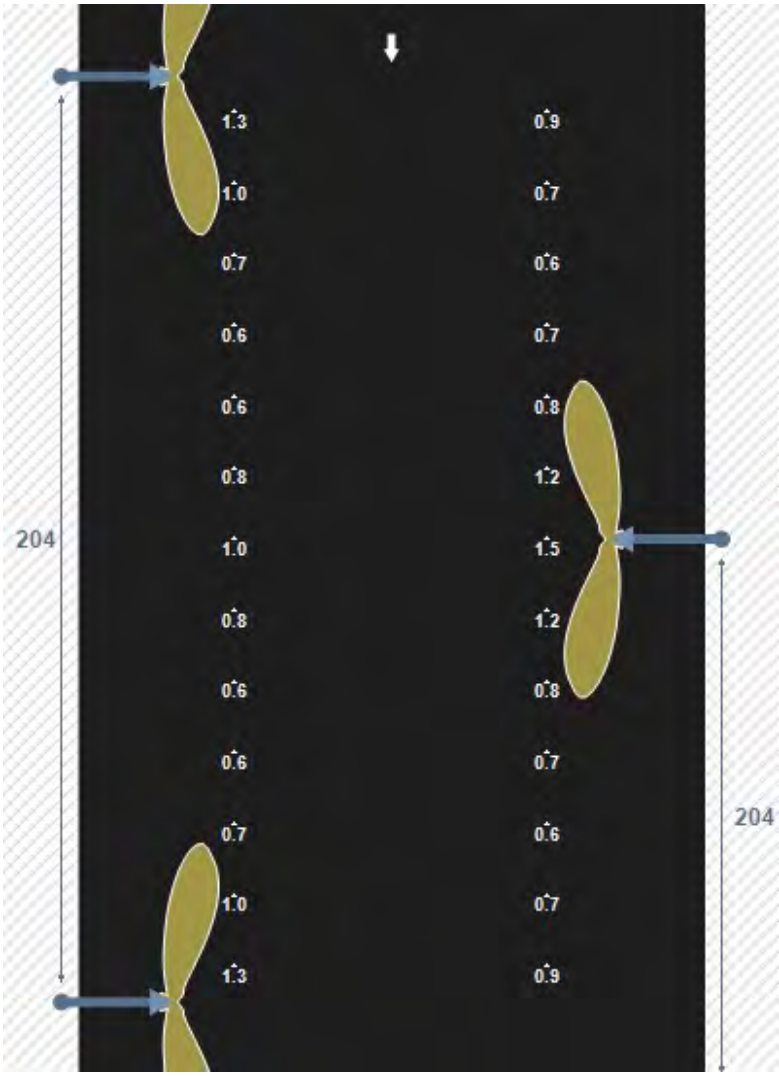

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.6	--	
Lv Ratio:	0.2	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

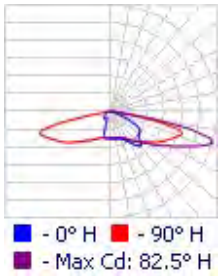
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

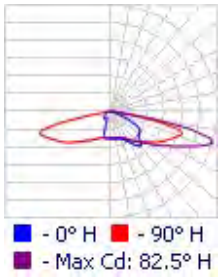
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	110.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	110.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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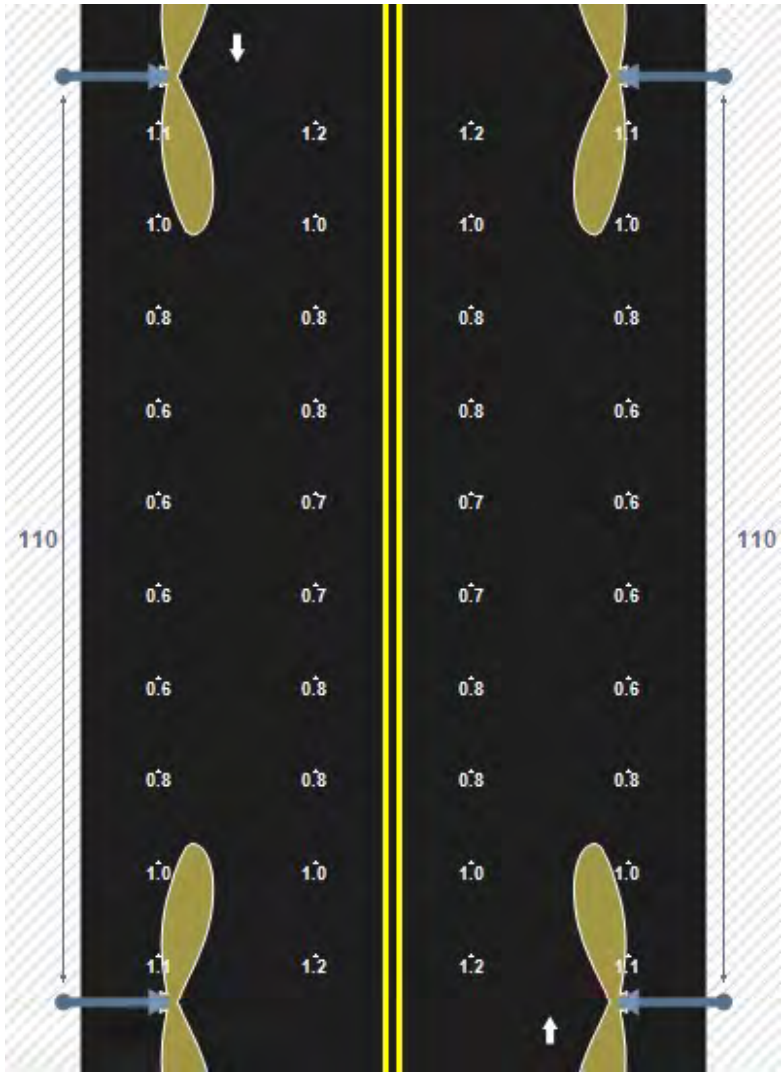

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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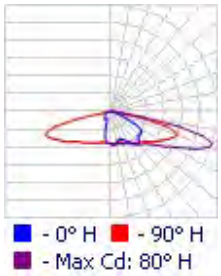
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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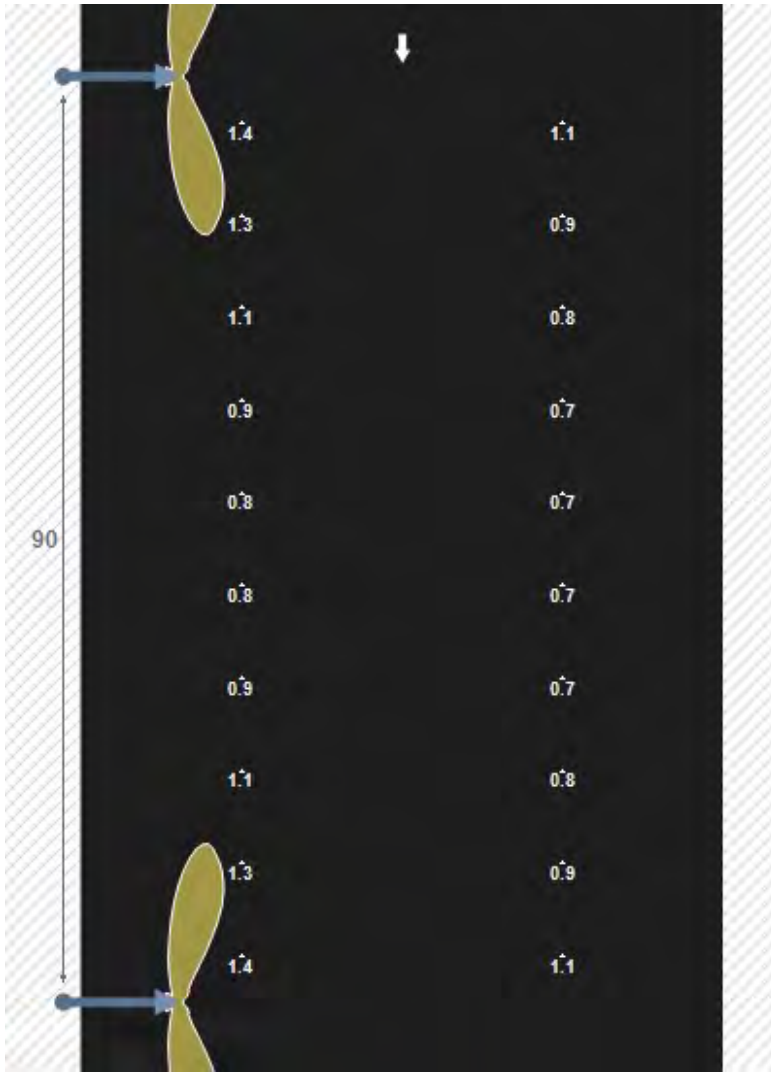

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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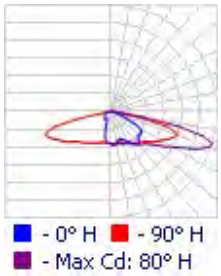
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

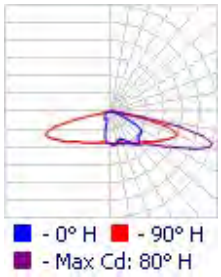
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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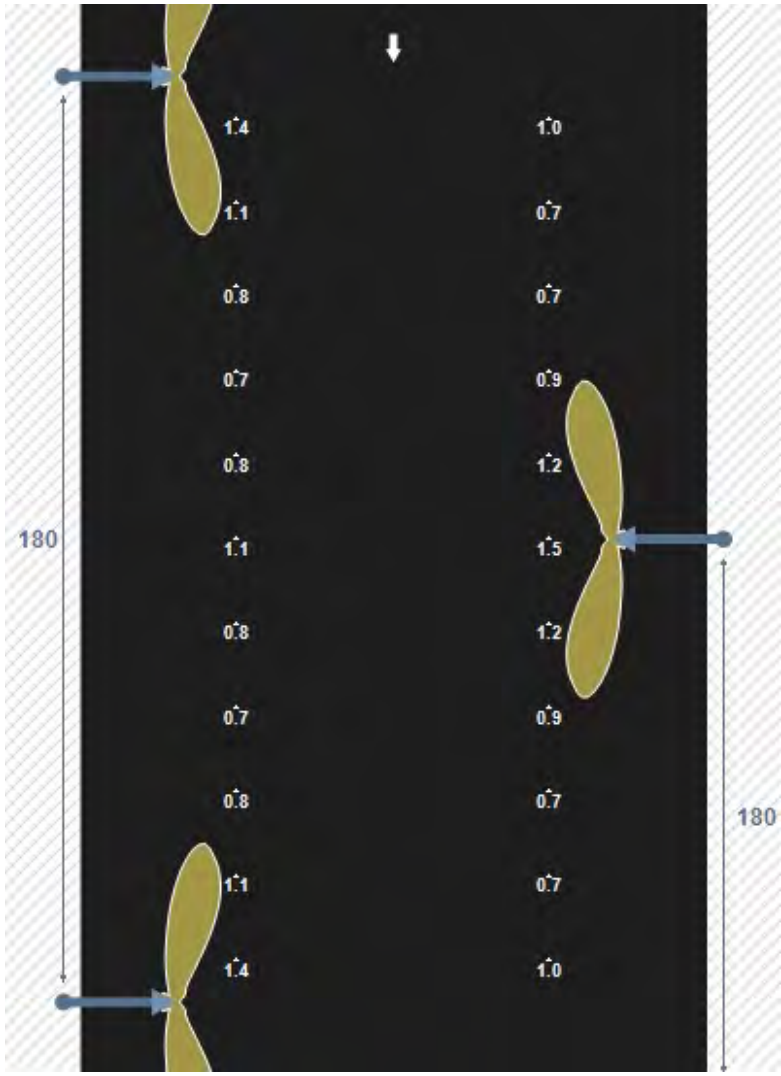

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Your Email

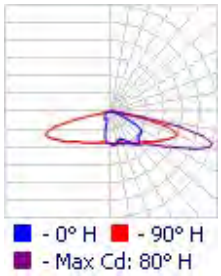
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

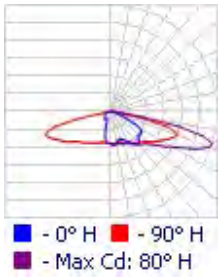
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	203.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	203.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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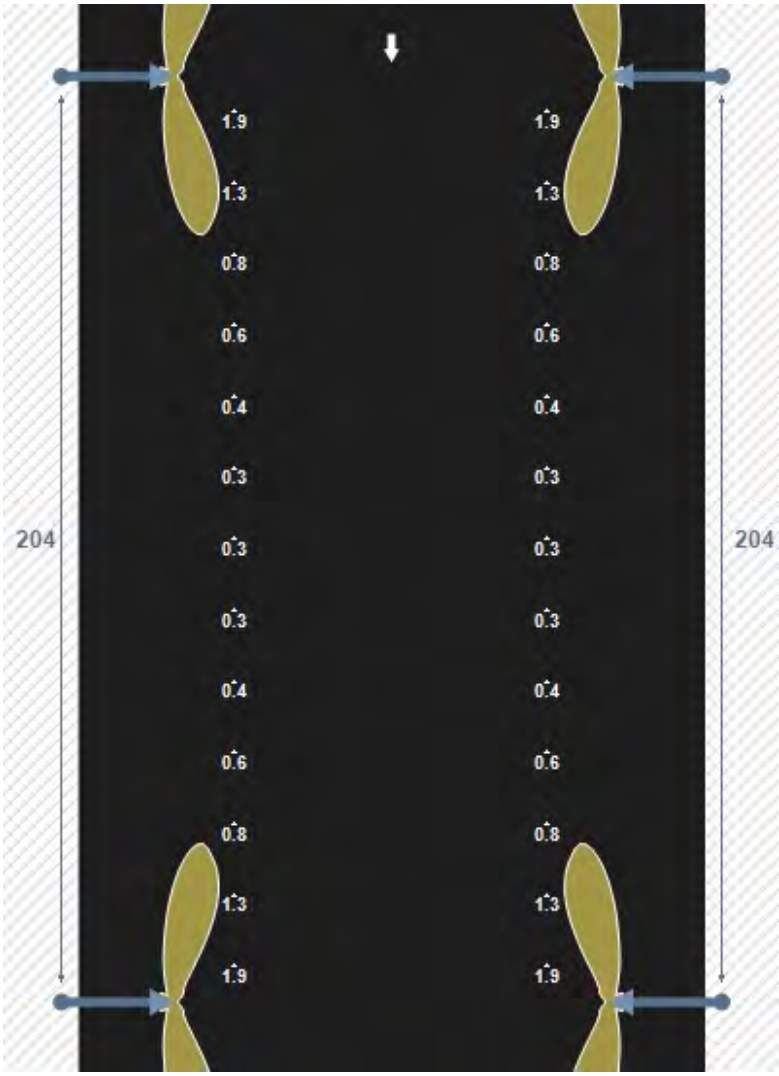

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	1.9	--	
Lv Ratio:	0.3	--	
STV:	3.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.9	--	fc
Min	0.3	--	fc
Ave/Min:	2.8	--	
Max/Min:	6.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

User Name
Company Name
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Your Email

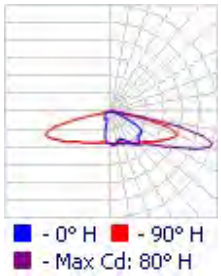
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	101.91 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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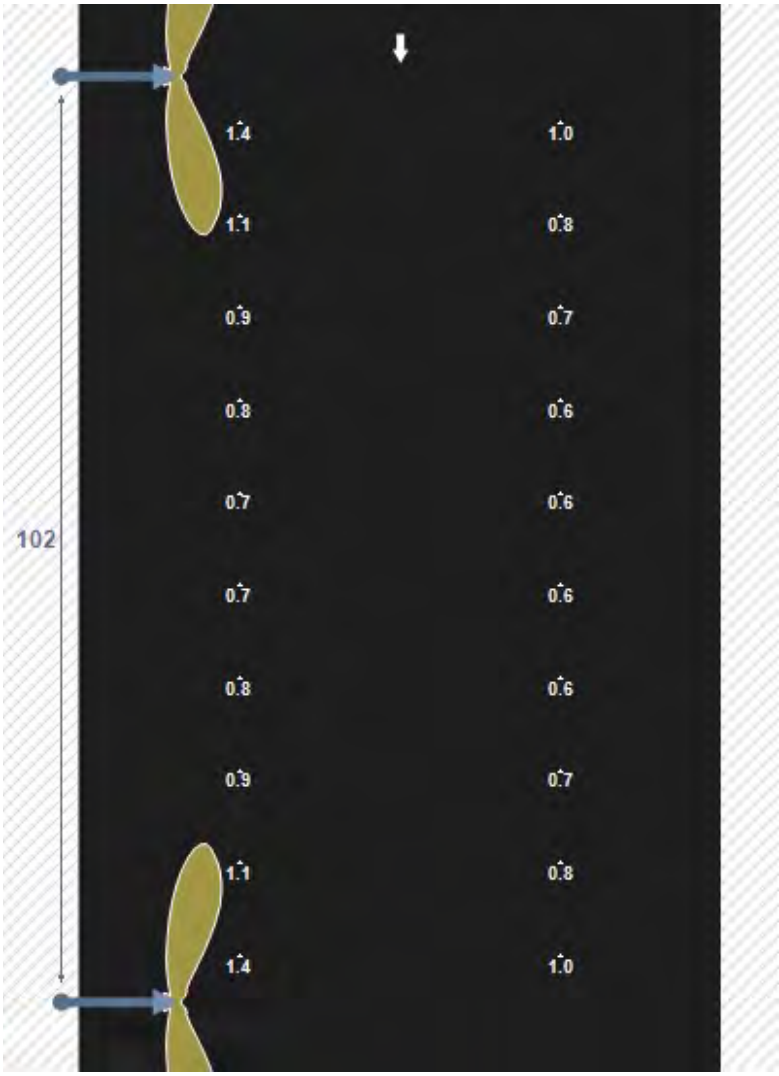

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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Your Email

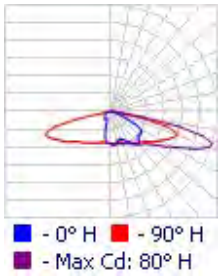
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

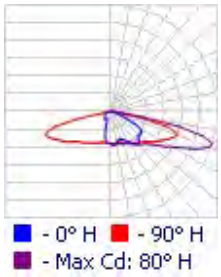
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	206.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	206.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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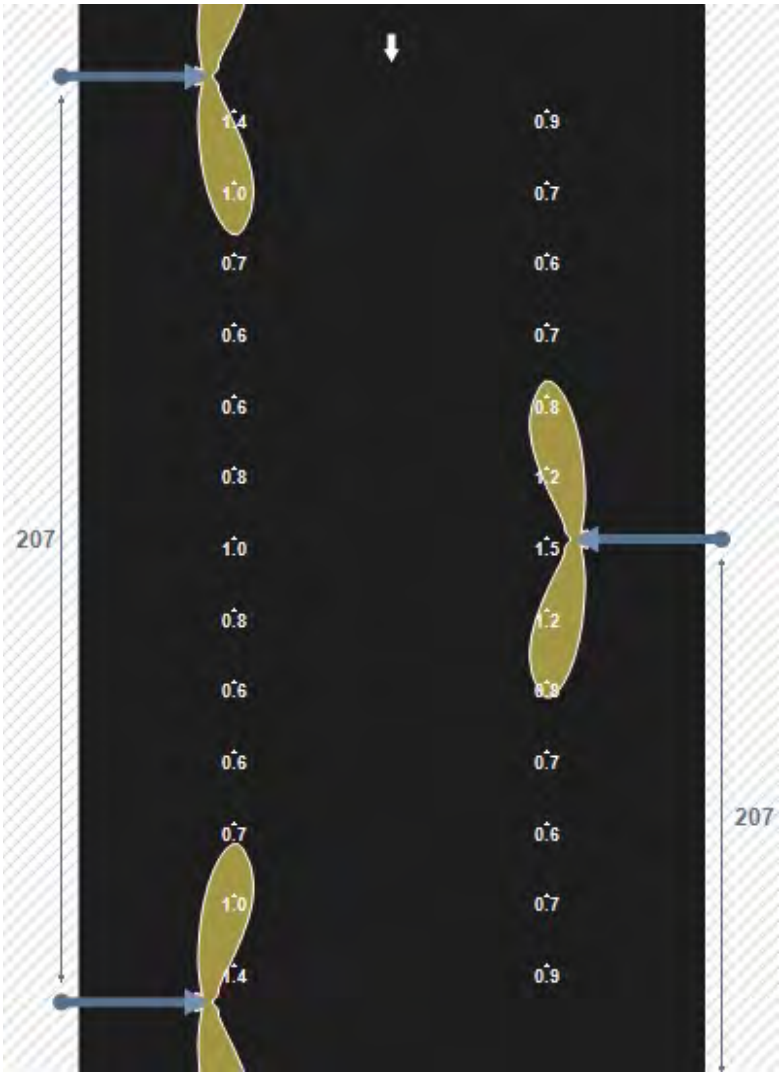

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.6	--	
Lv Ratio:	0.2	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

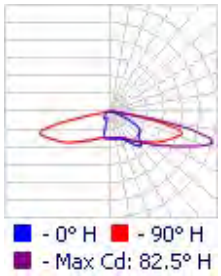
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

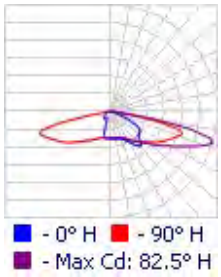
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	111.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	111.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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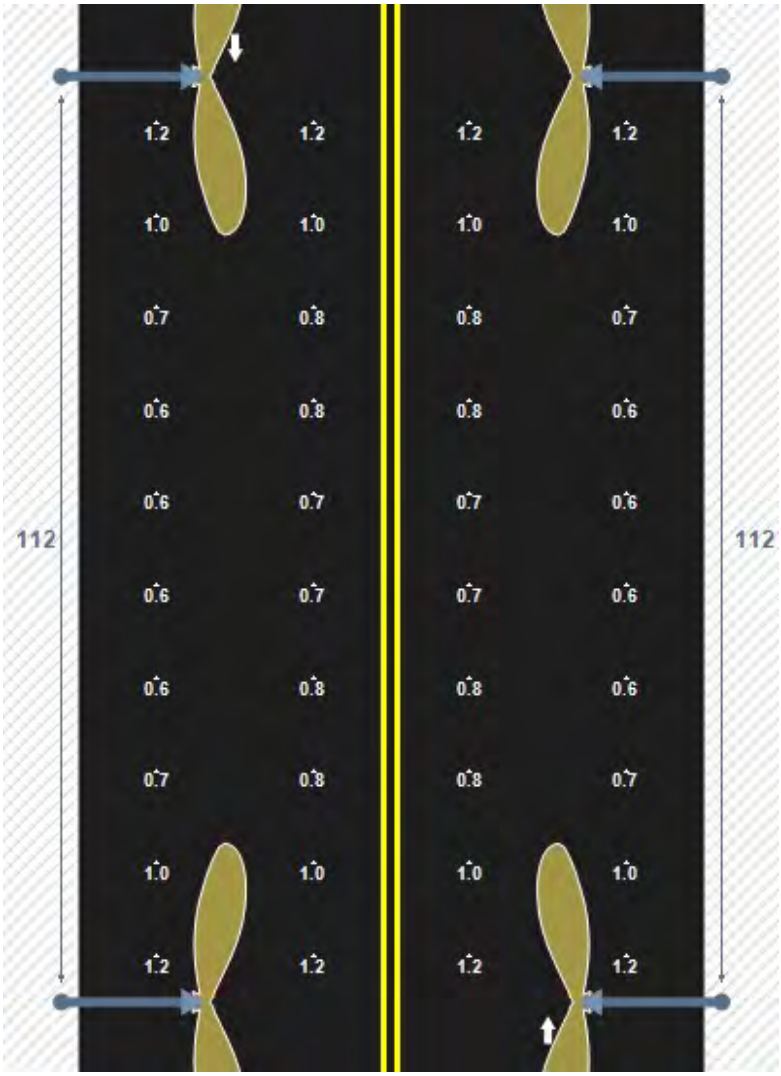

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.7	0.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

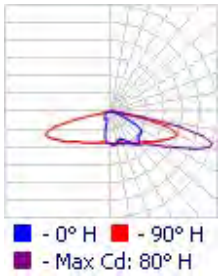
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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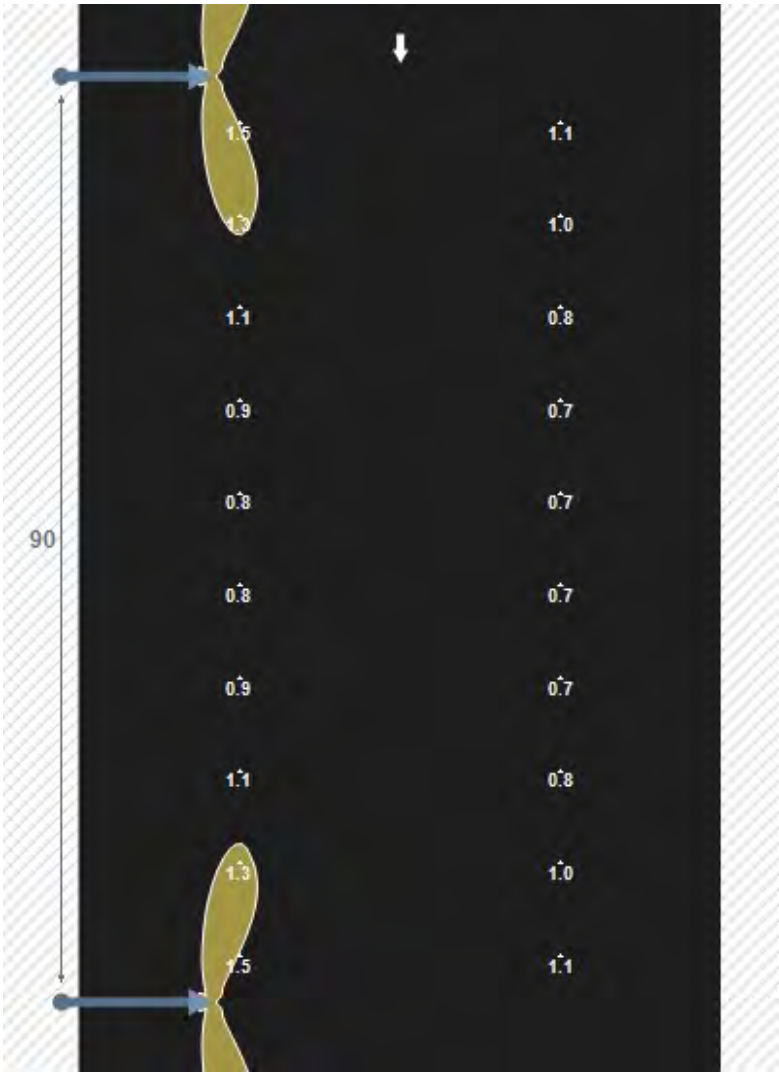

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

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Project Description

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Company Name
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Your Email

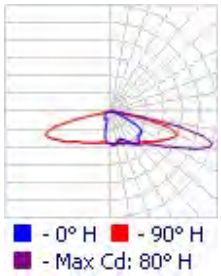
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

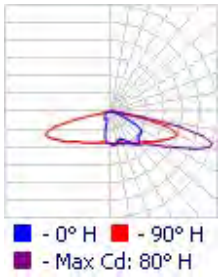
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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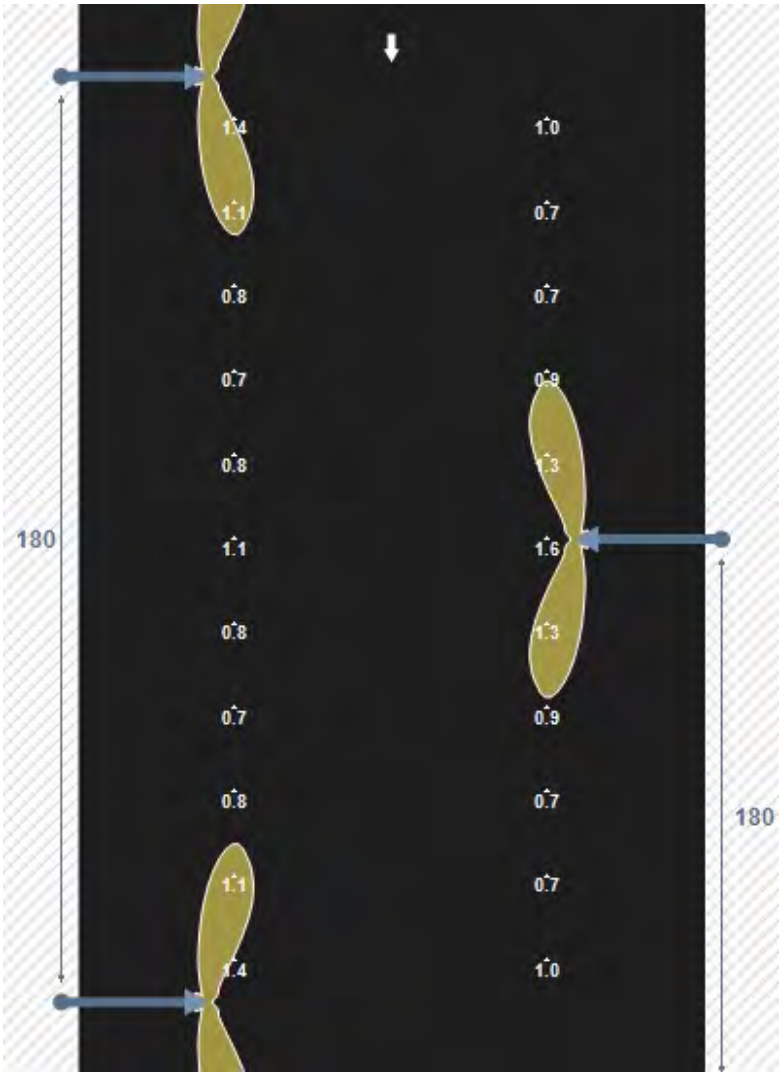

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.6	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

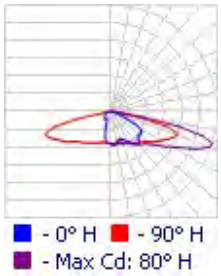
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

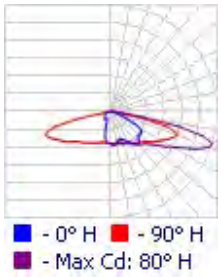
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205.92 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	205.92 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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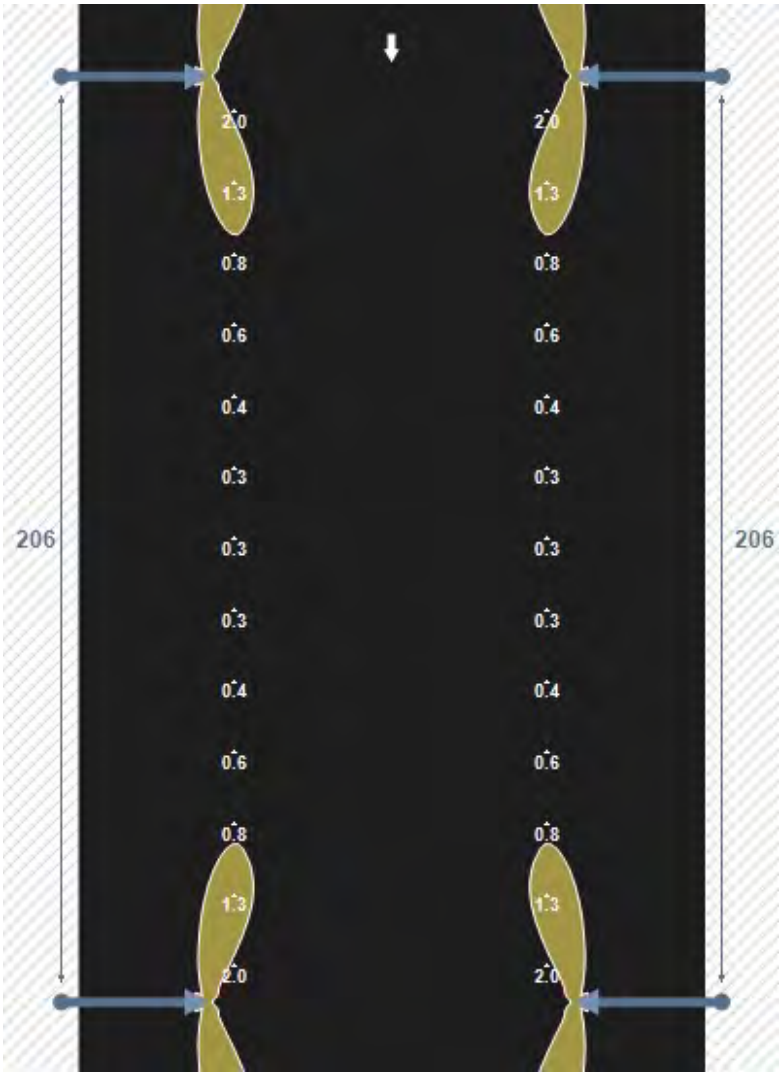

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	1.9	--	
Lv Ratio:	0.3	--	
STV:	3.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	2	--	fc
Min	0.3	--	fc
Ave/Min:	3	--	
Max/Min:	6.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

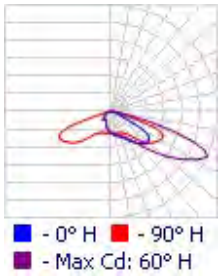
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

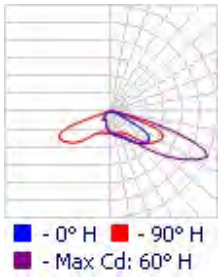
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	225.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	225.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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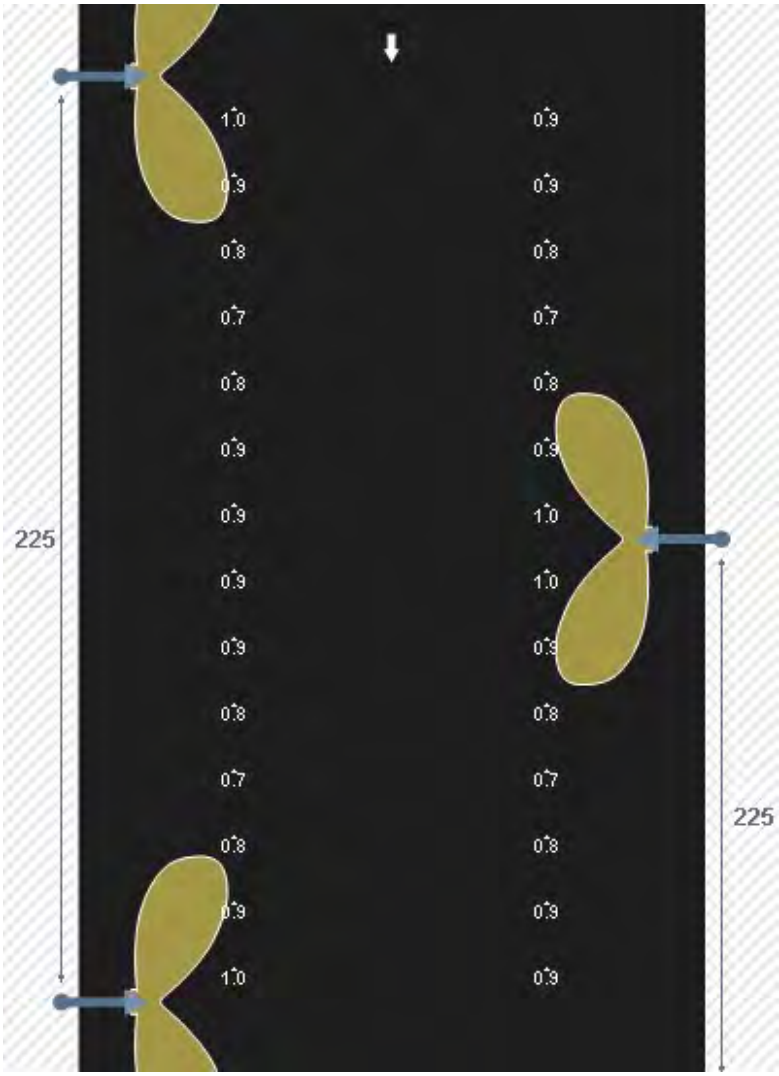

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	2.1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

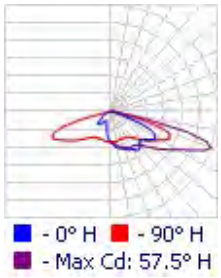
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

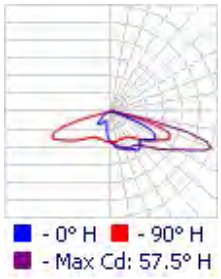
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	160 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	160 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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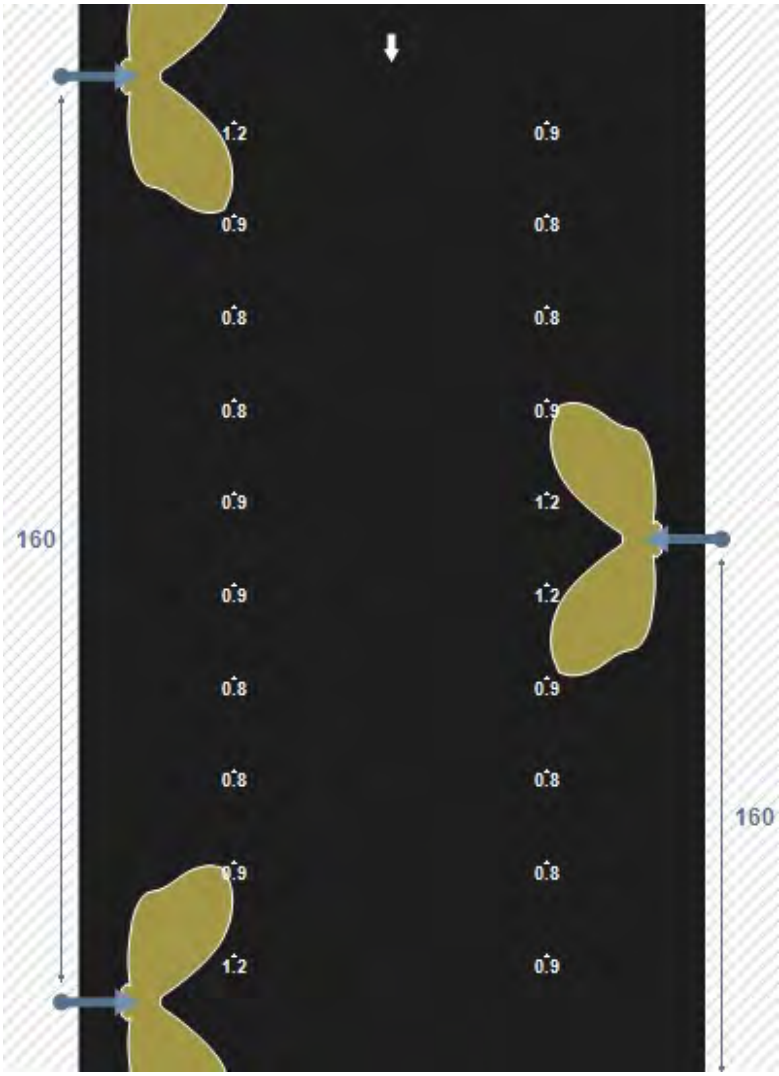

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.2	--	fc
Min	0.8	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

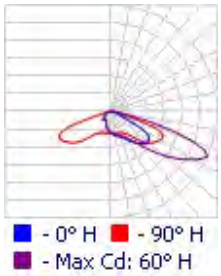
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	80 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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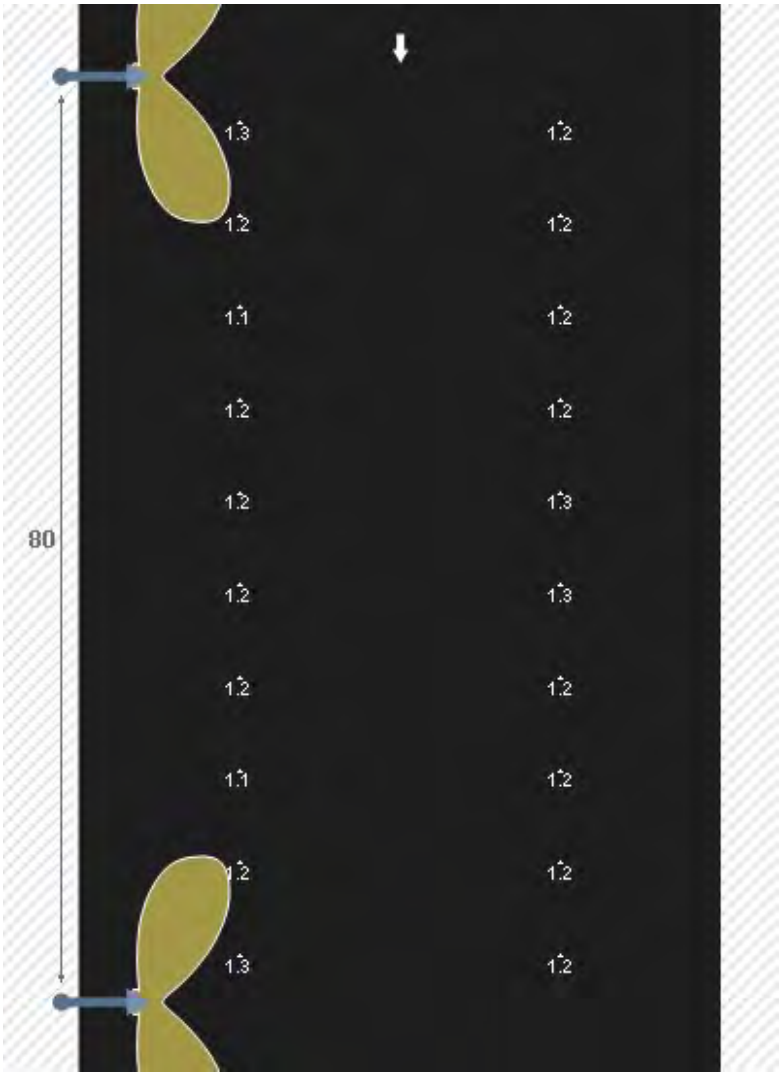

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.3	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

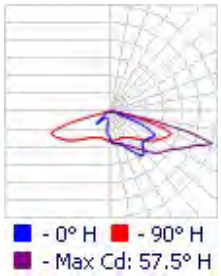
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

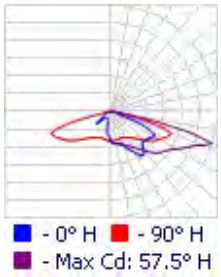
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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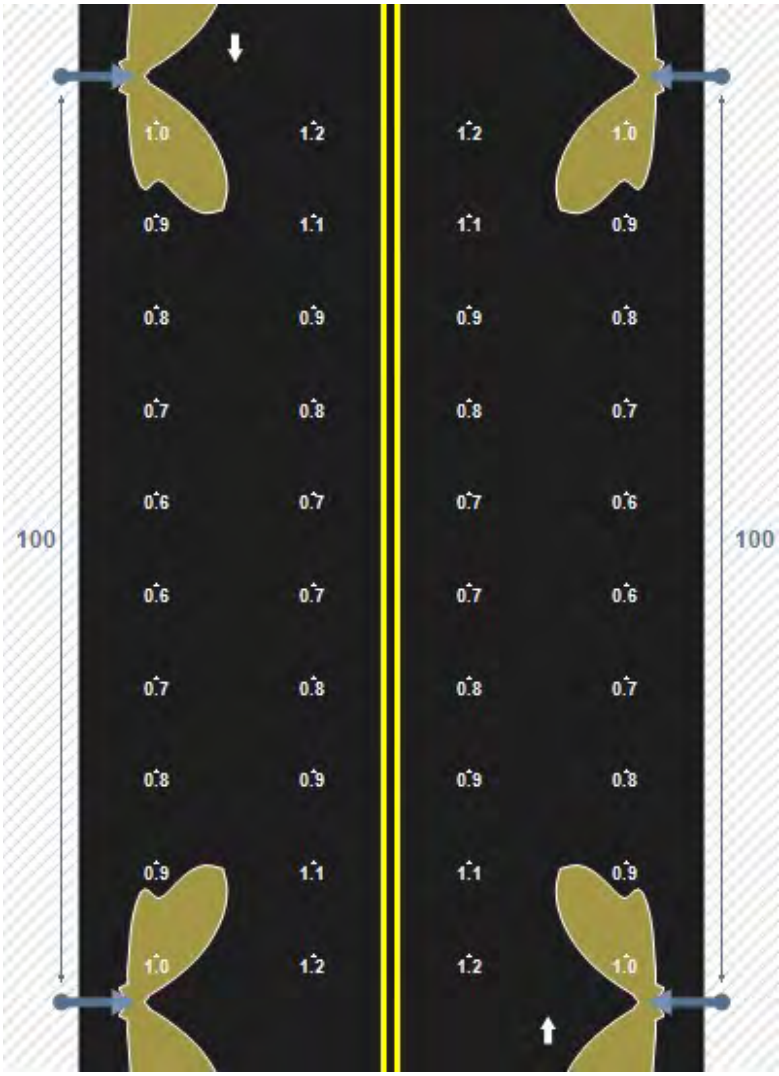

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

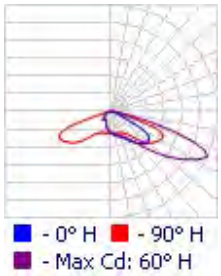
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

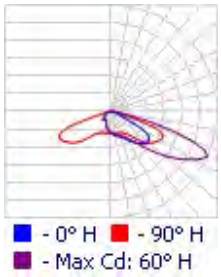
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	173.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	173.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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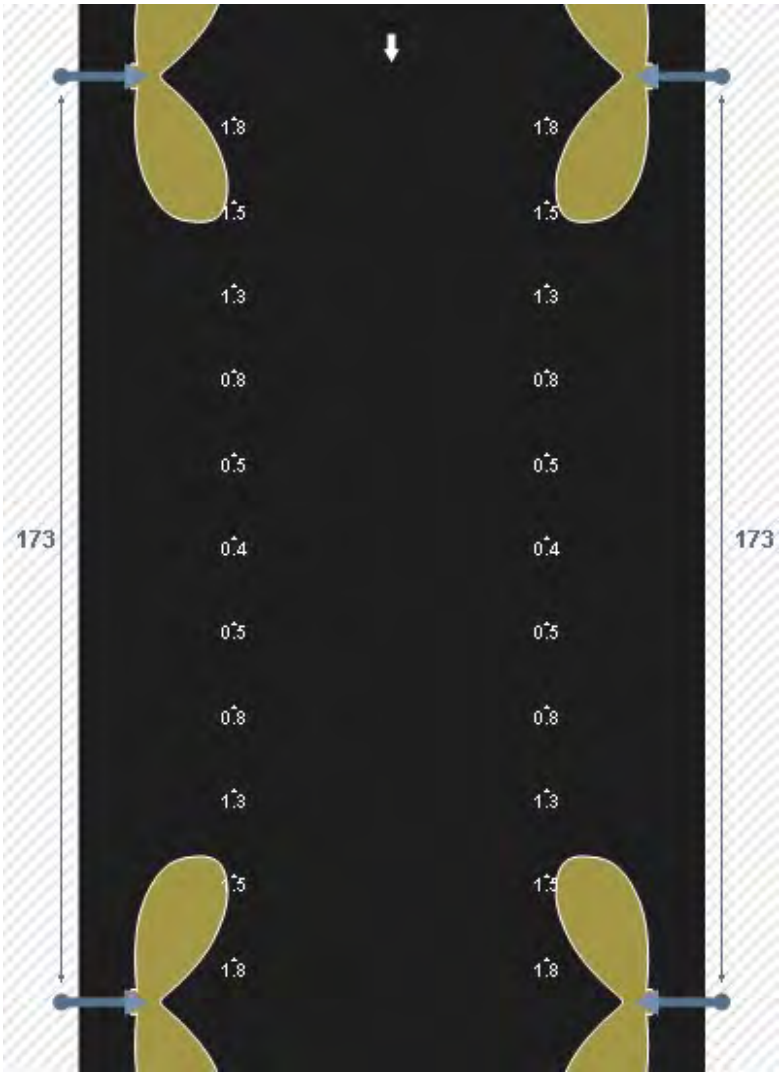

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.5	--	
Lv Ratio:	0.2	--	
STV:	4.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.8	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	4.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

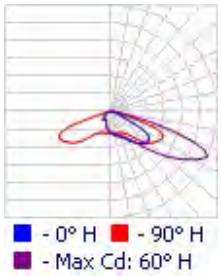
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	112.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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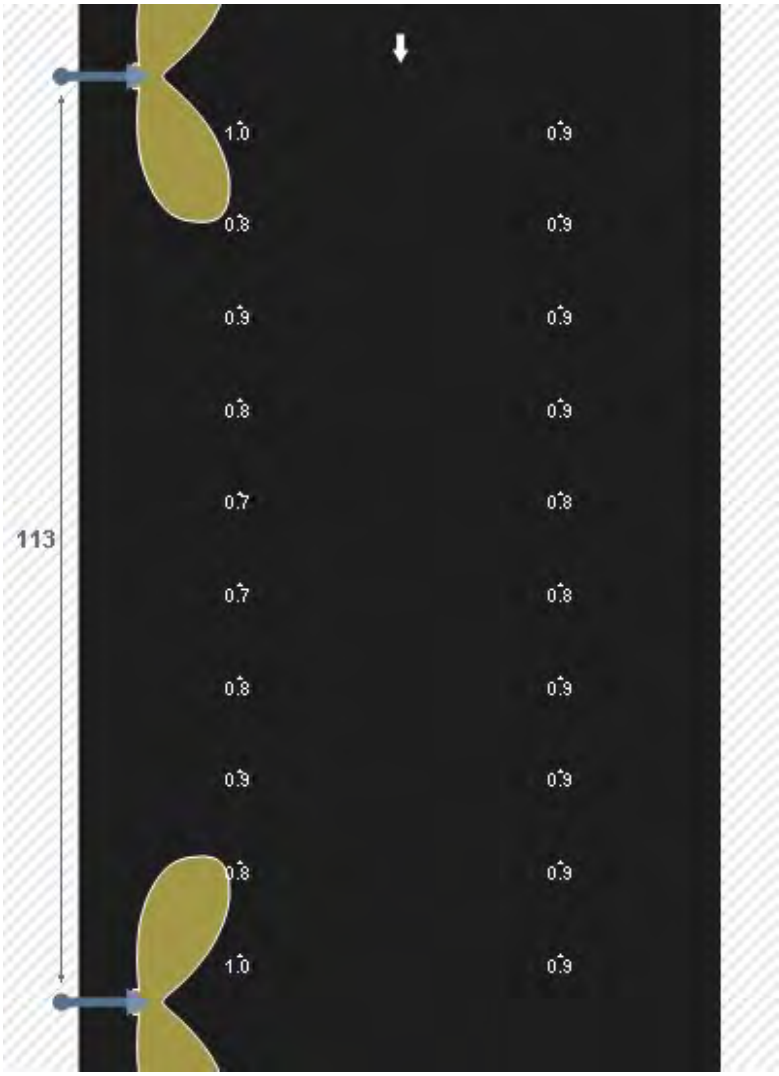

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	2.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

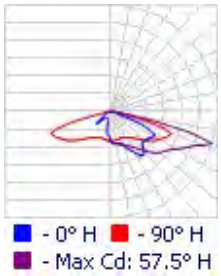
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

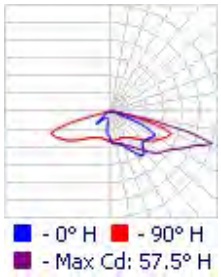
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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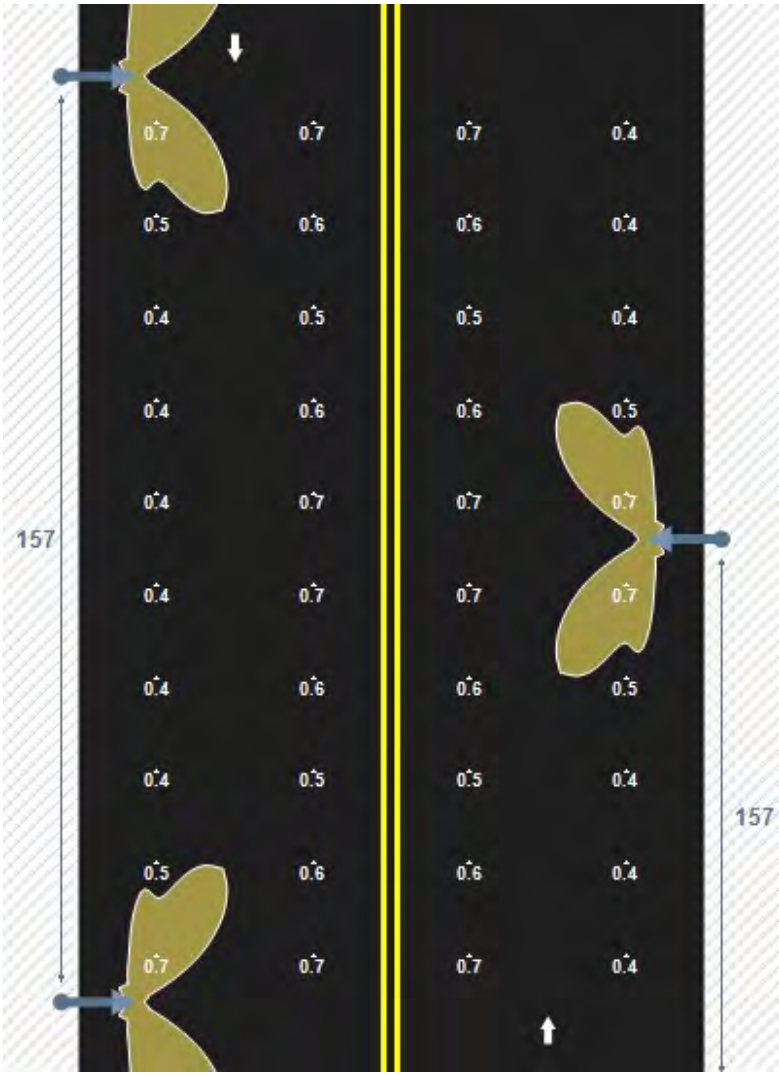

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

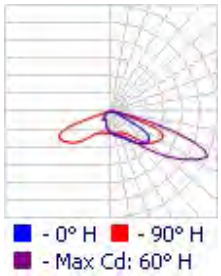
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

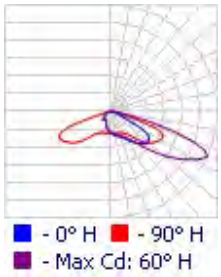
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	223.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	223.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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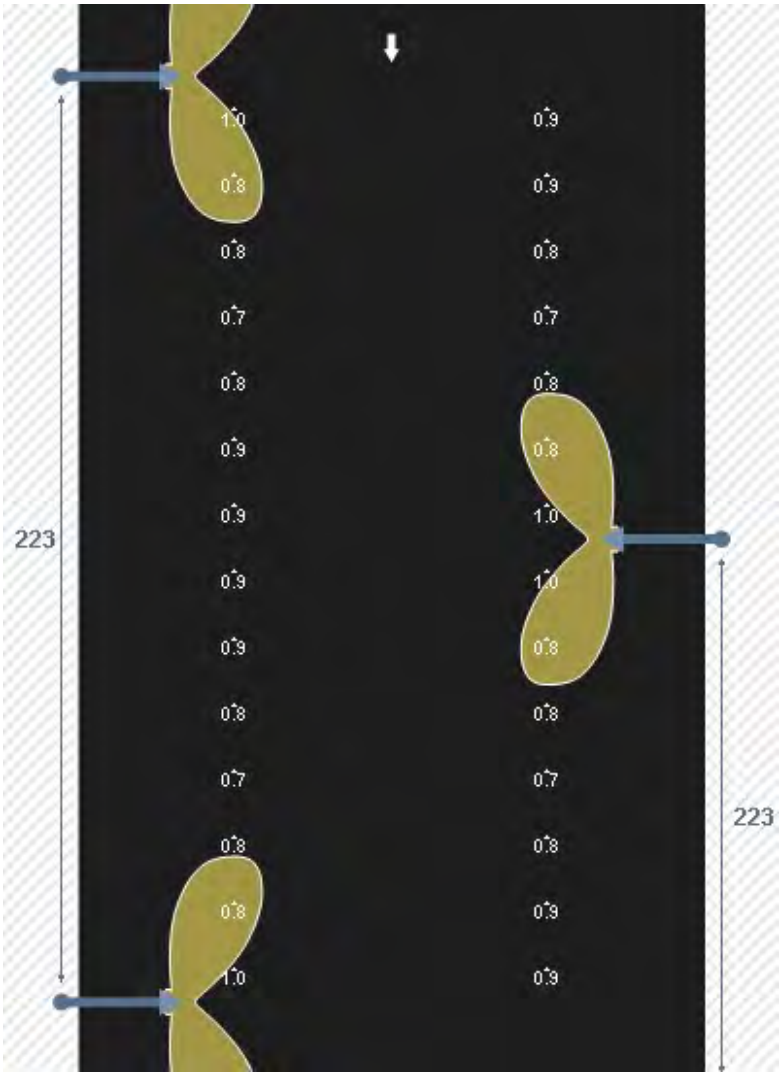
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

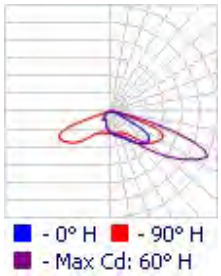
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

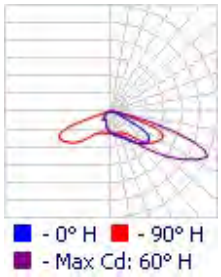
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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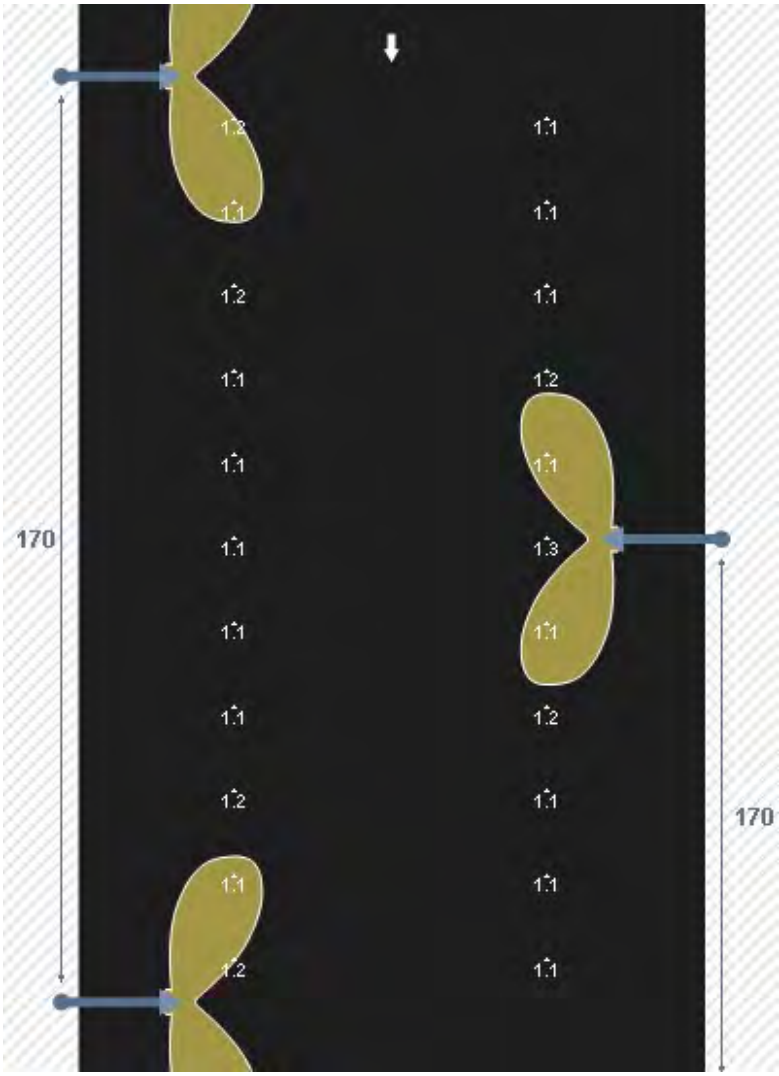

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.3	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

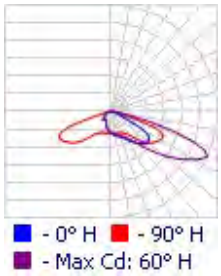
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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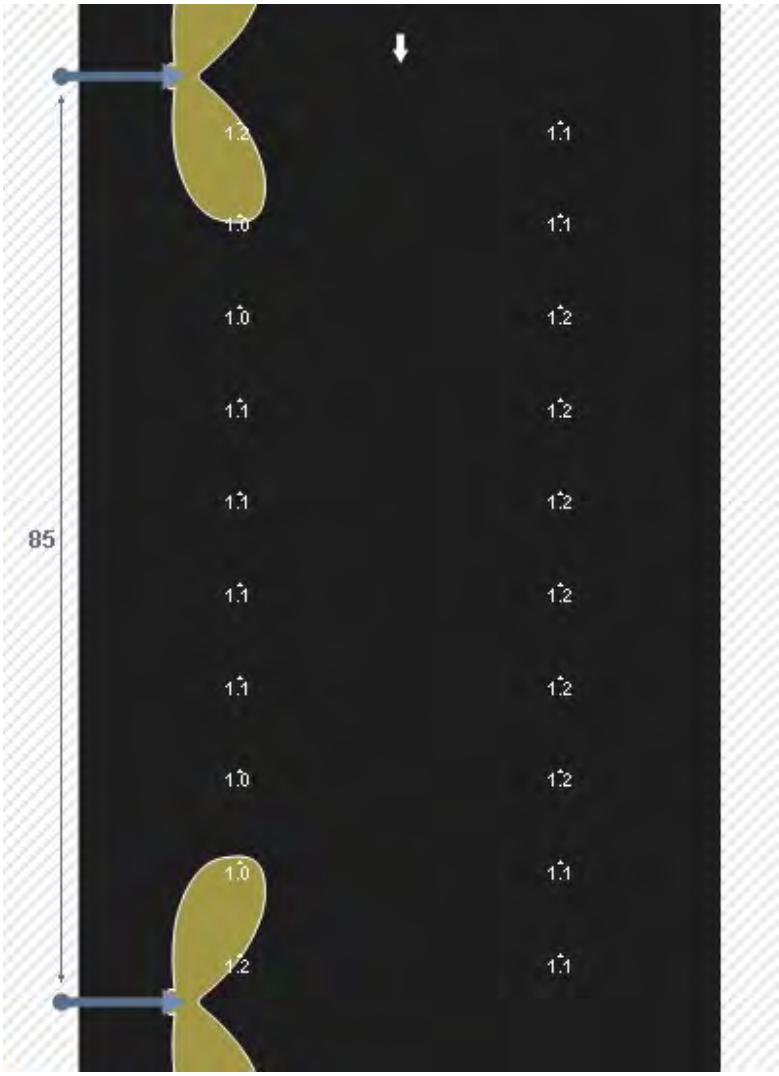

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.2	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

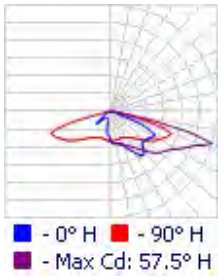
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

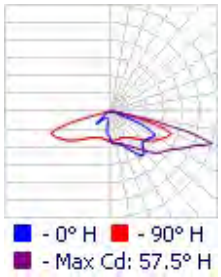
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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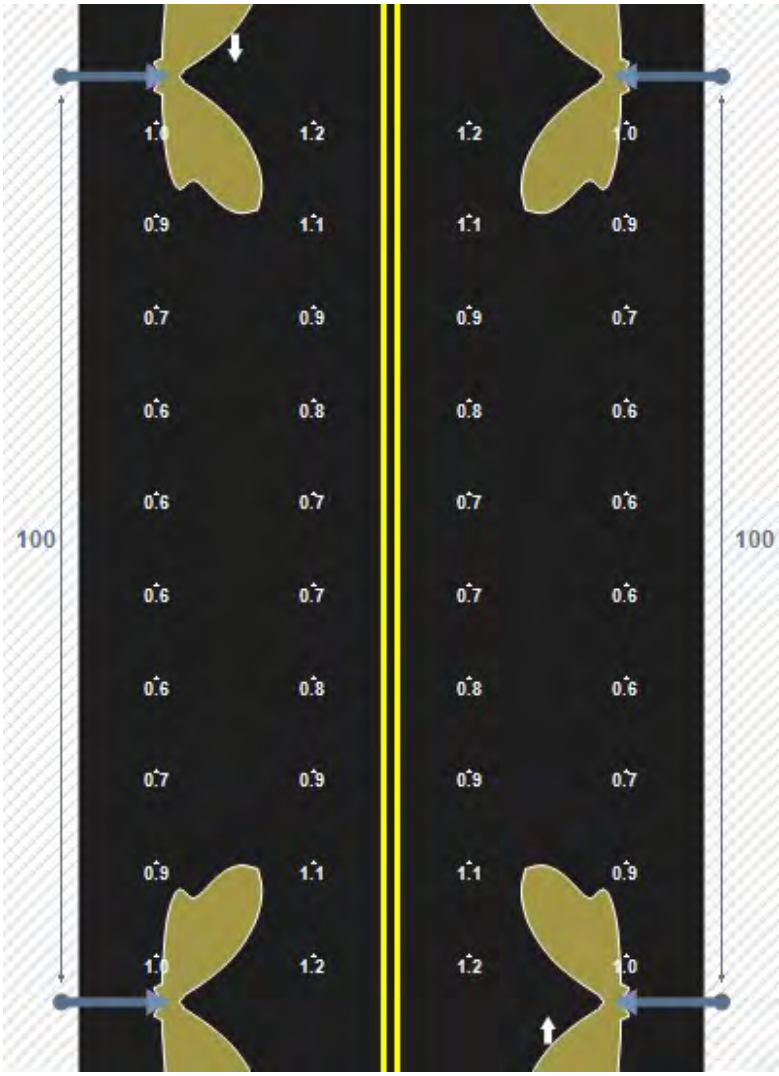

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.3	1.3	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

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Company Name
Your Phone
Your Email

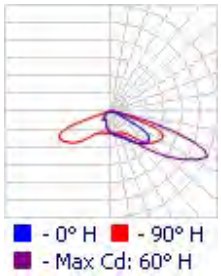
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

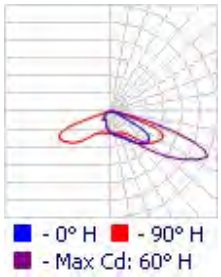
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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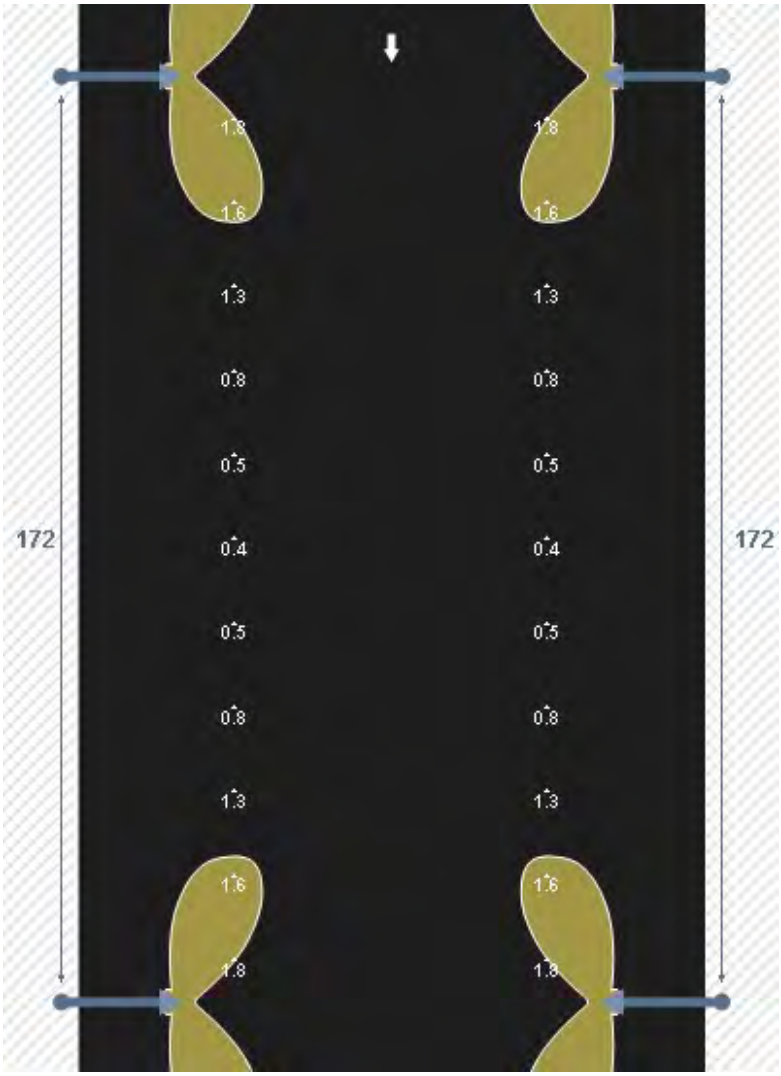

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	4.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.8	--	fc
Min	0.4	--	fc
Ave/Min:	2.9	--	
Max/Min:	4.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

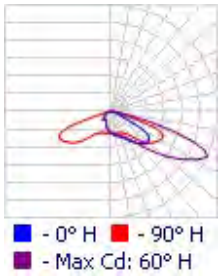
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	111.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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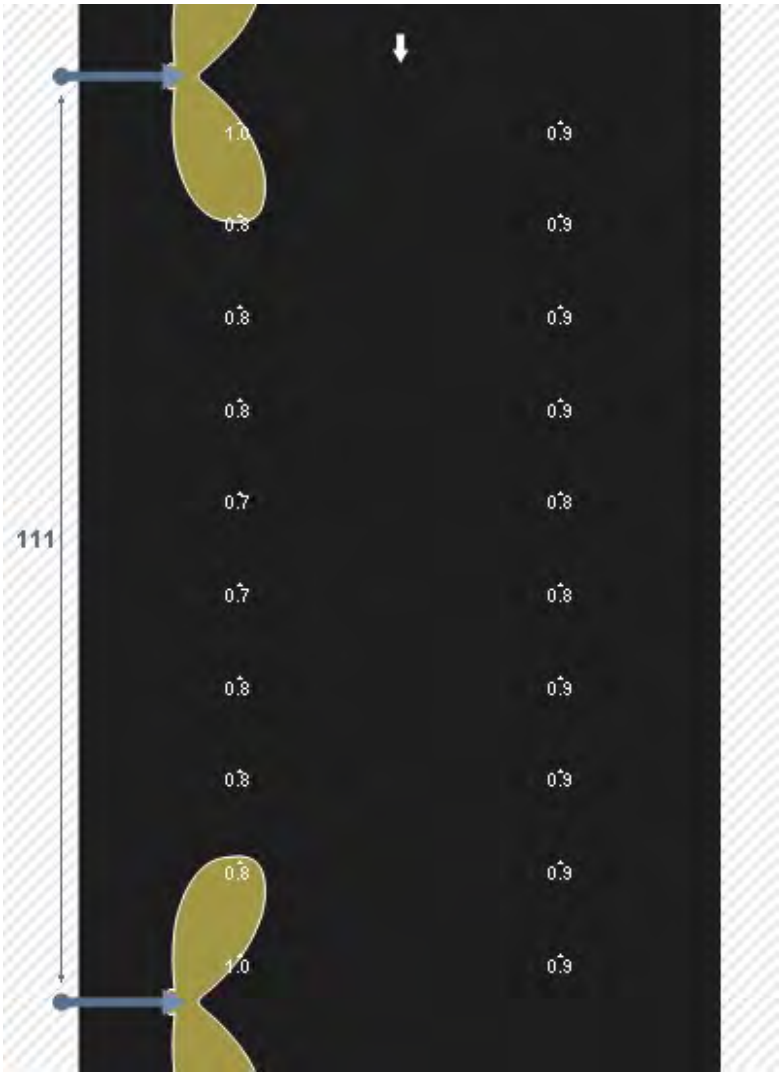

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	2.1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

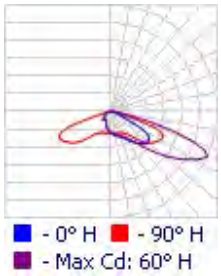
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

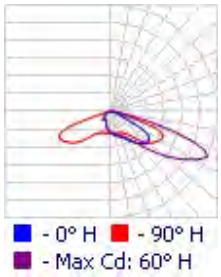
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	218.87 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	218.87 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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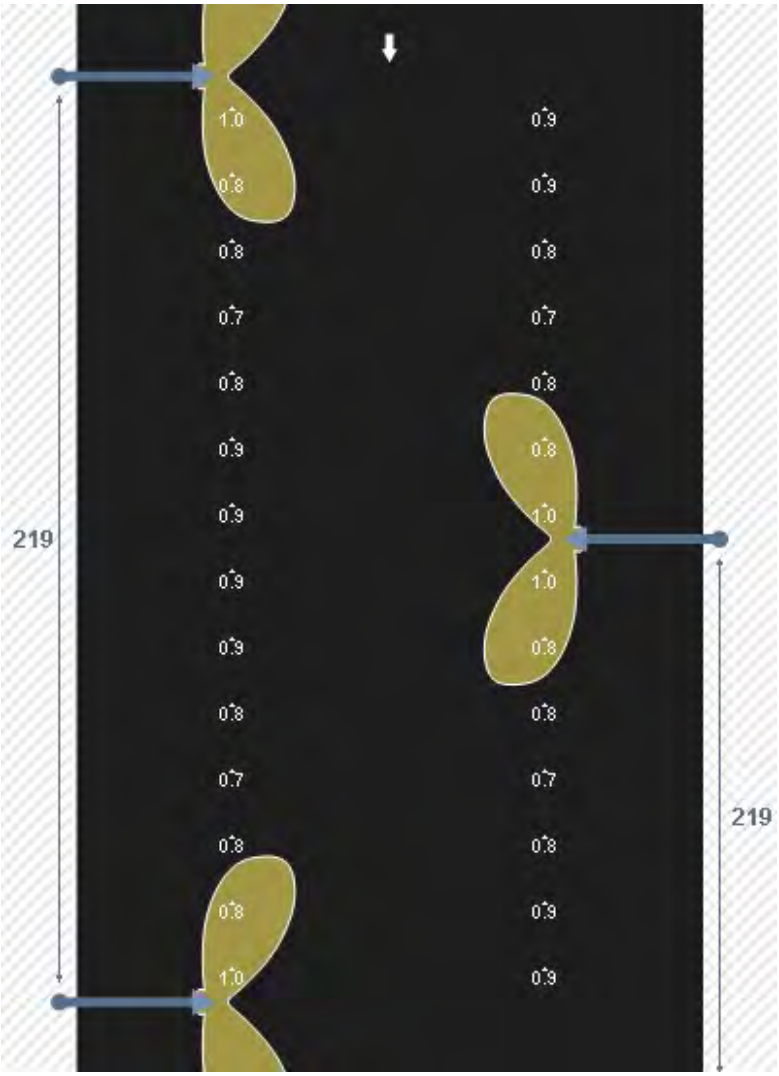
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

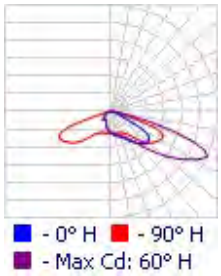
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

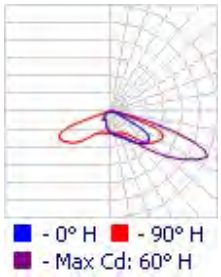
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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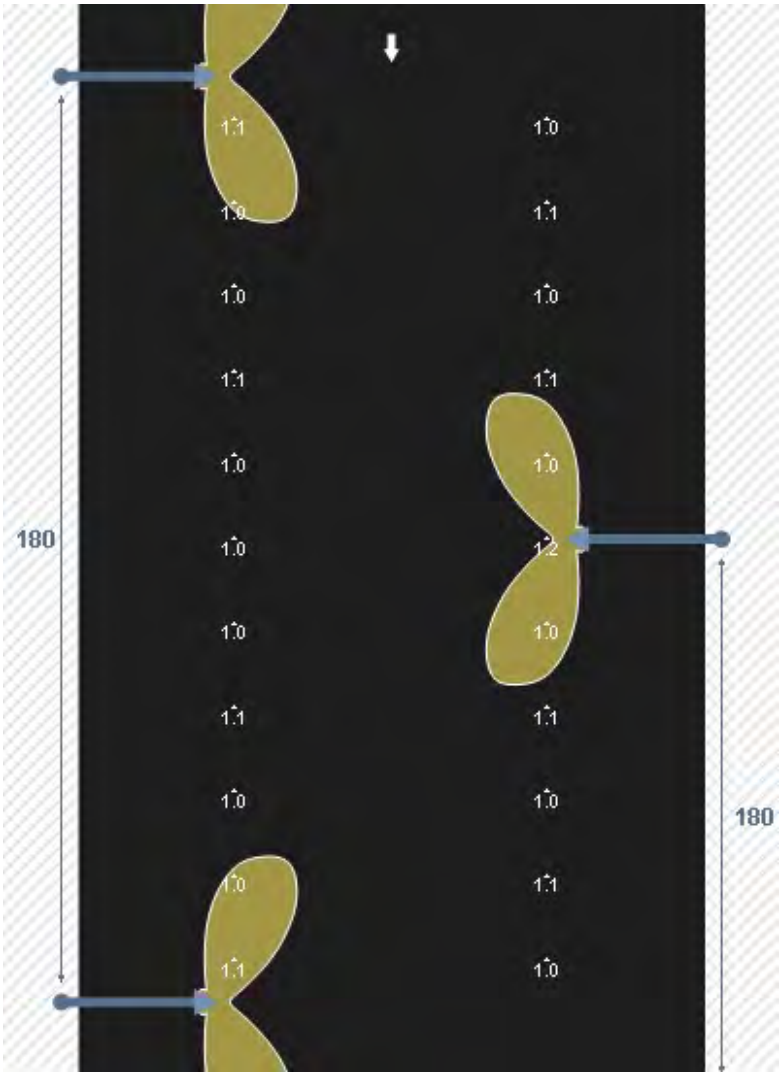

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.2	--	fc
Min	1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

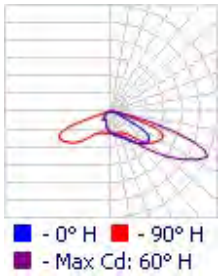
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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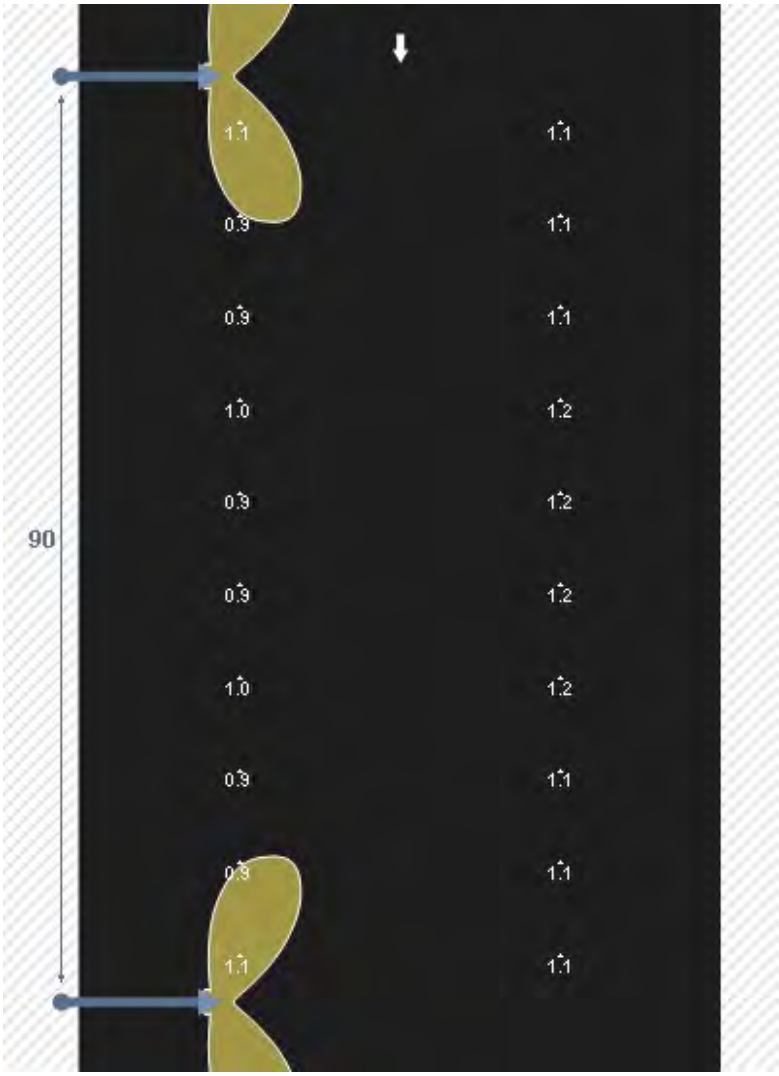

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.2	--	fc
Min	0.9	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

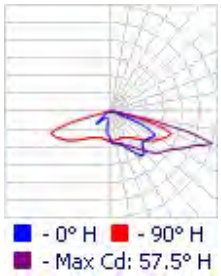
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

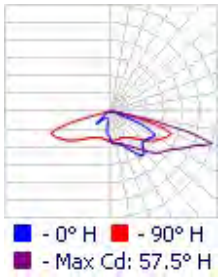
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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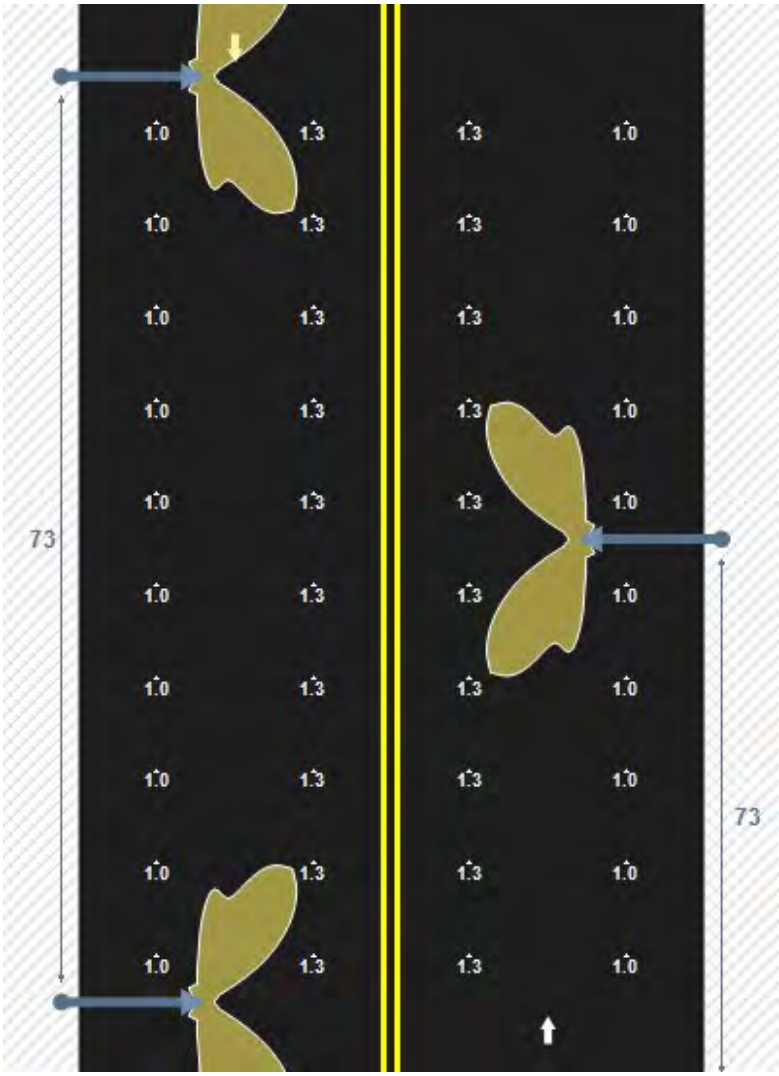

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

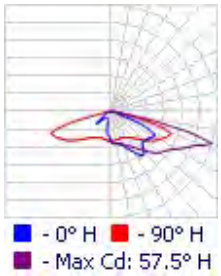
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

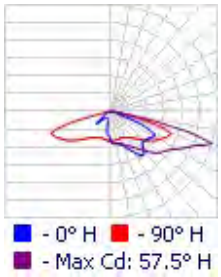
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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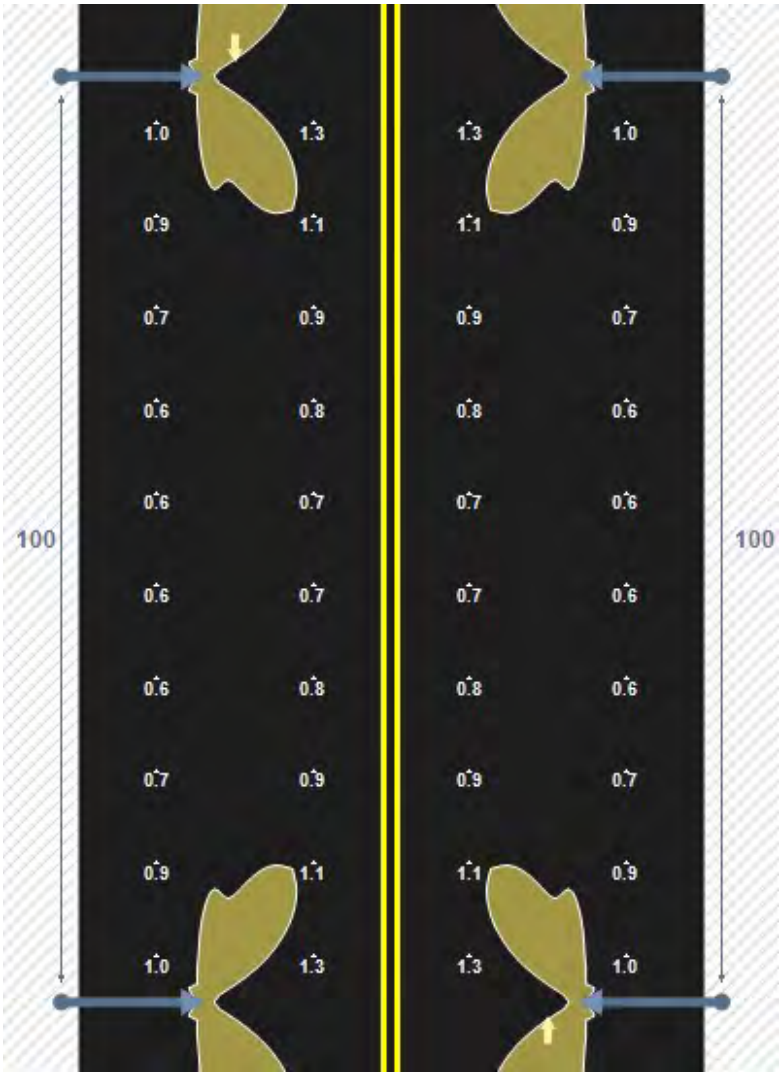

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.3	1.3	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

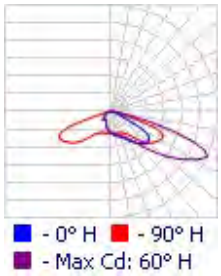
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

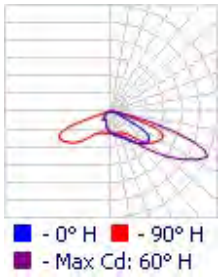
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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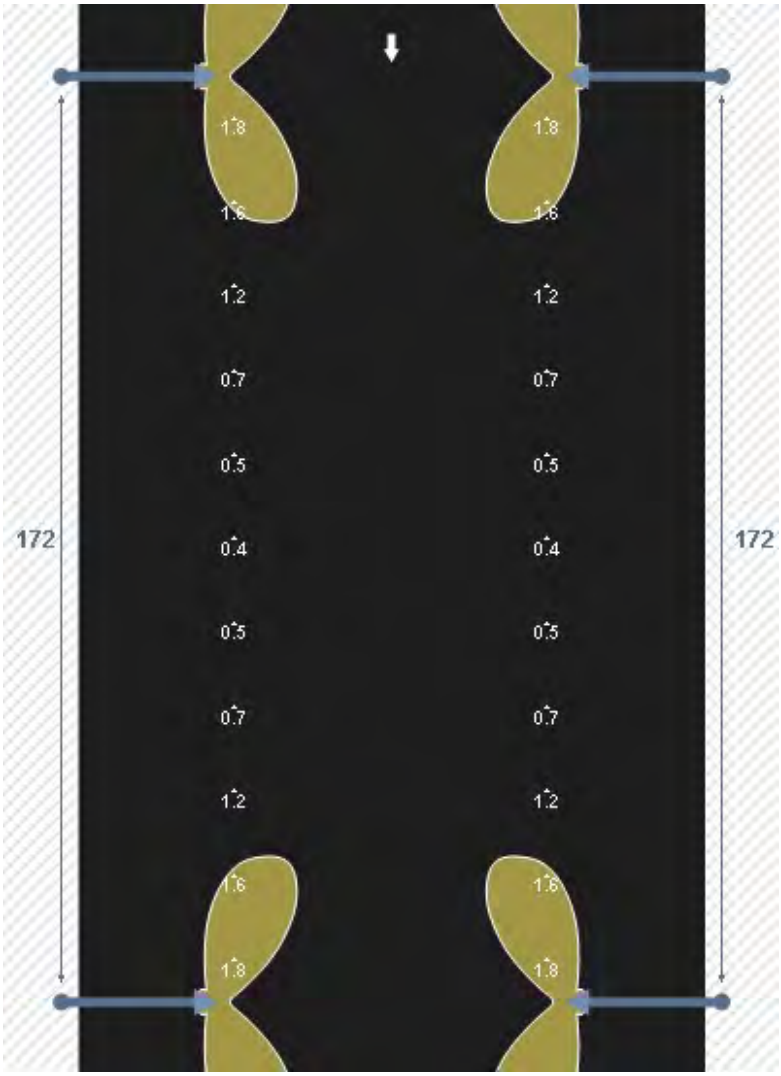

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.6	--	
Lv Ratio:	0.2	--	
STV:	4.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.8	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	5.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

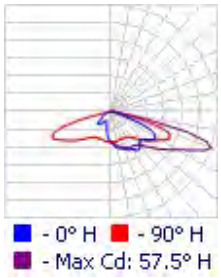
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	83.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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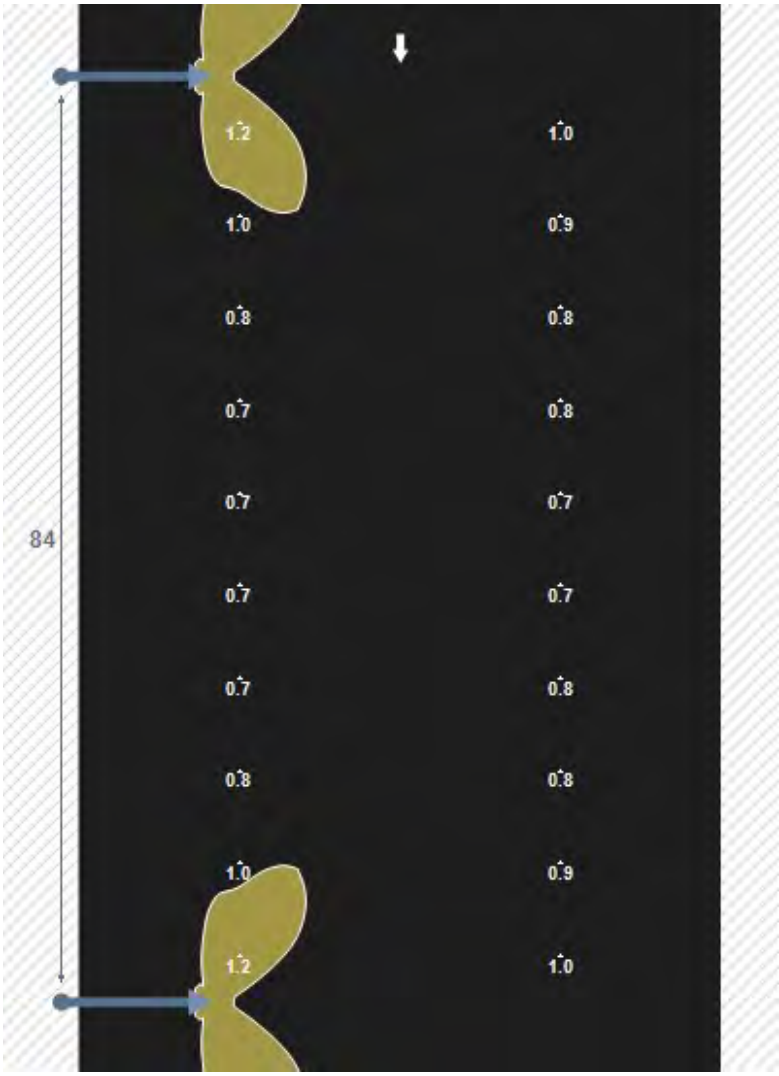

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.2	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

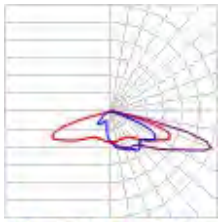
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

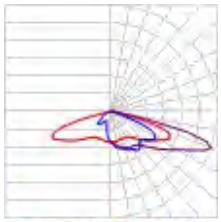
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	319.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	319.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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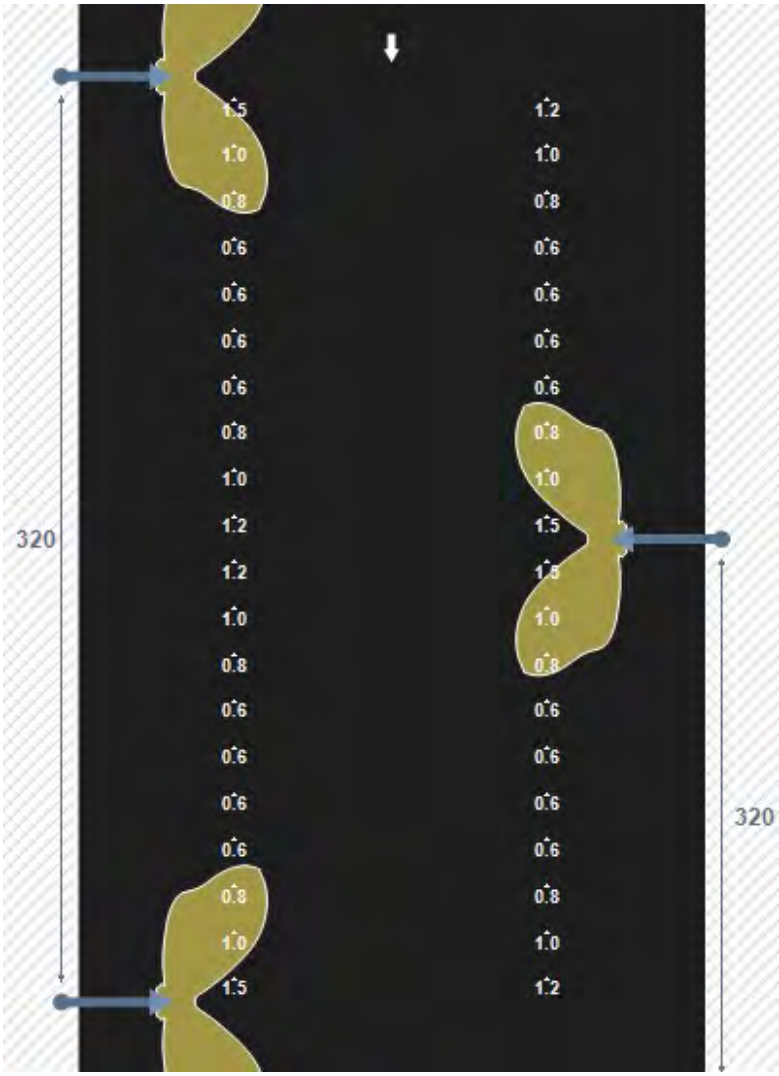
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	158.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	158.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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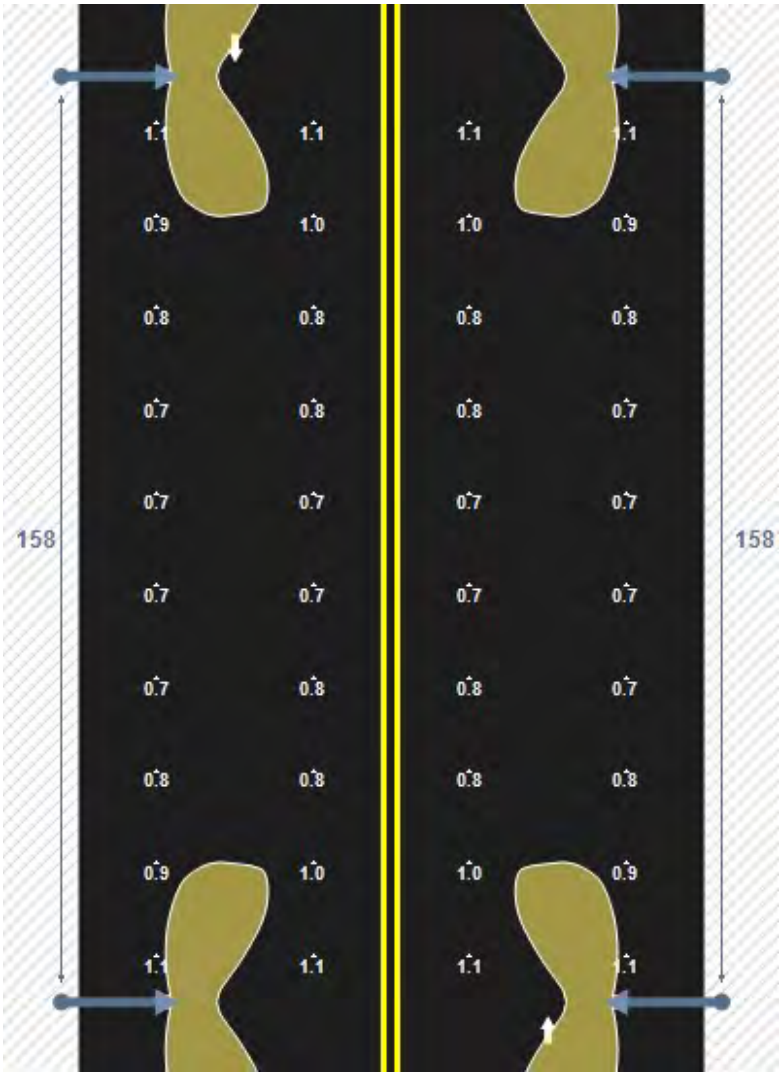
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

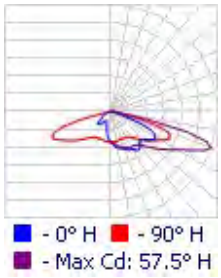
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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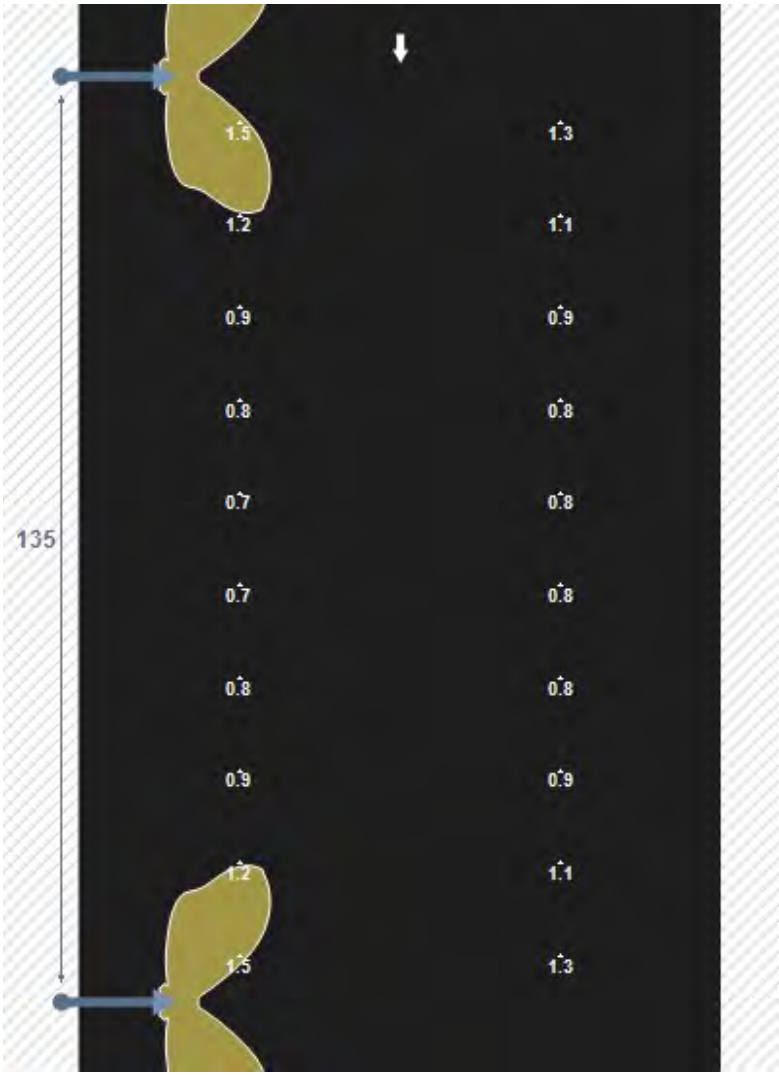

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

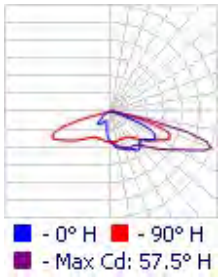
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

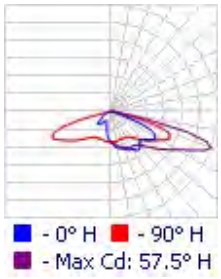
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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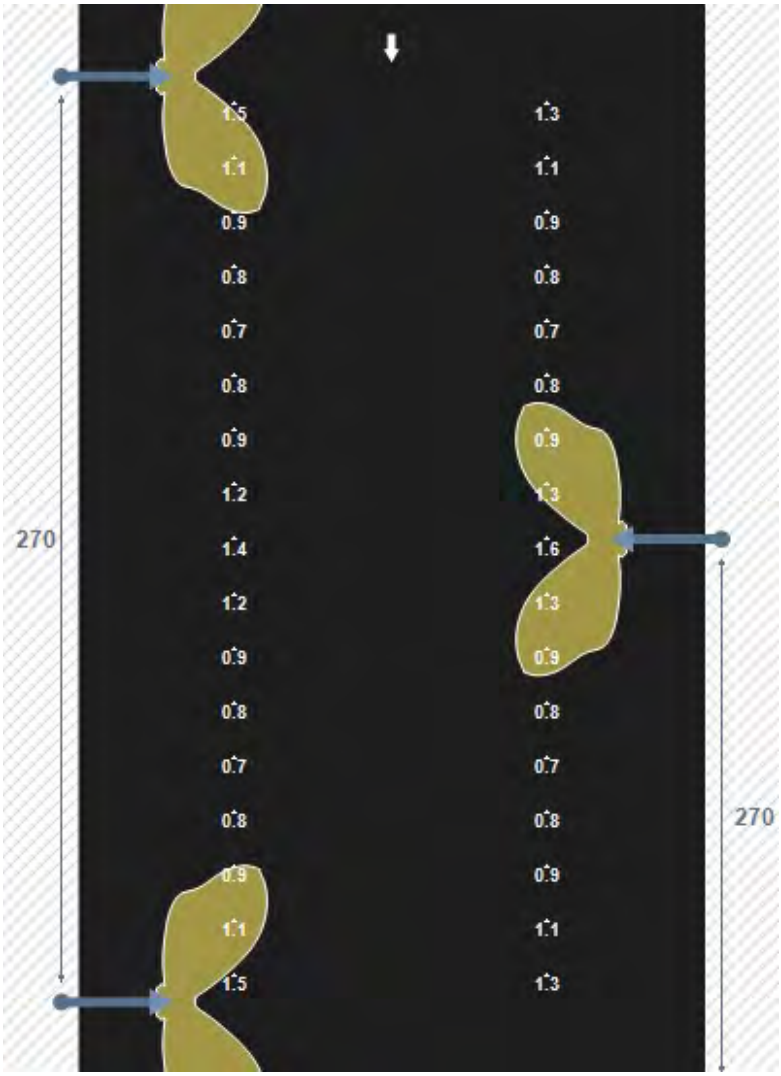

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

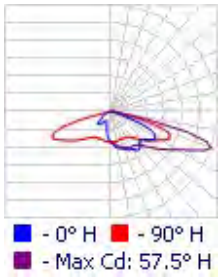
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

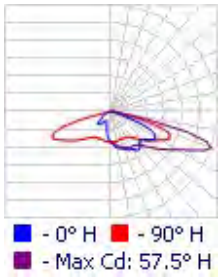
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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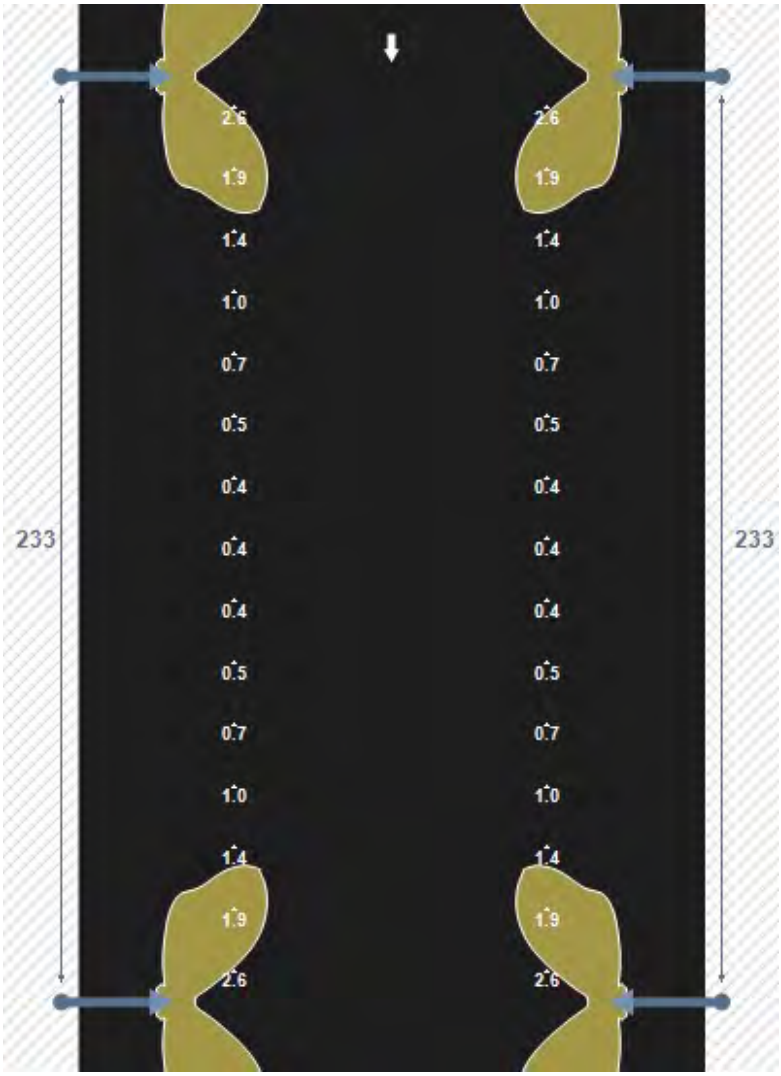

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

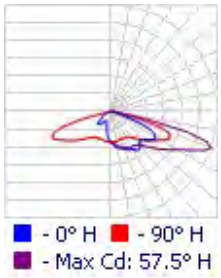
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	159.76 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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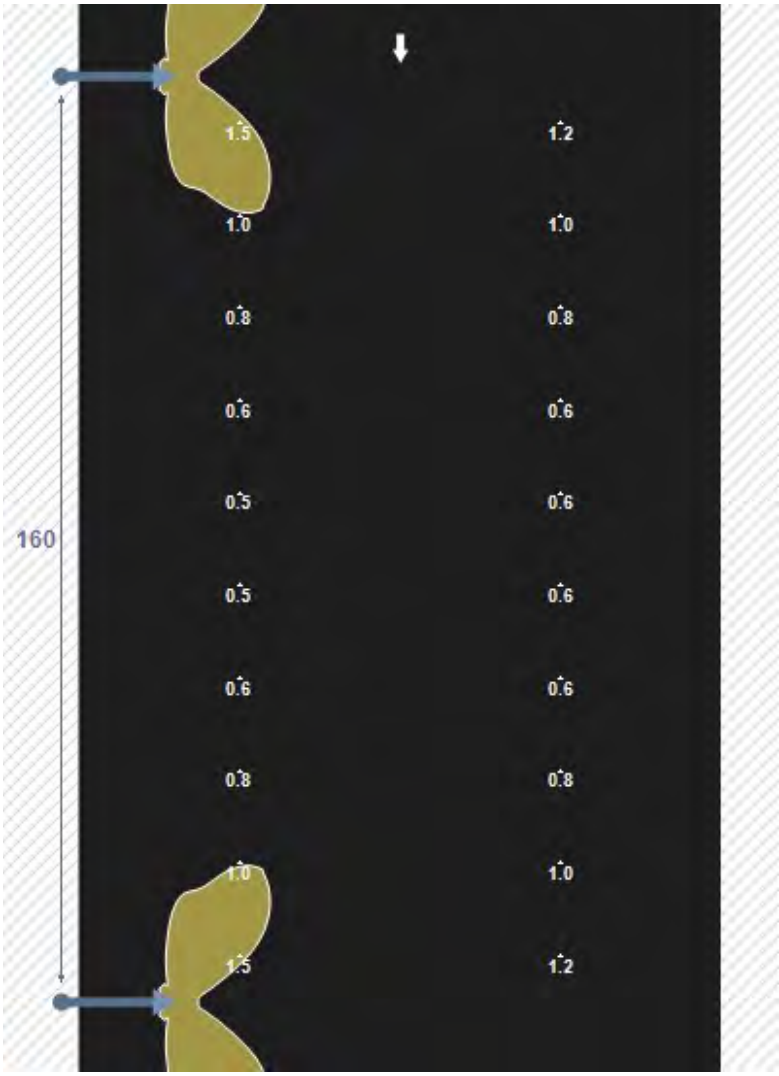

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.5	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

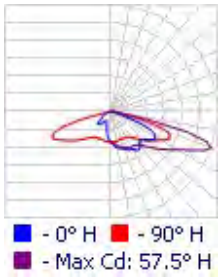
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

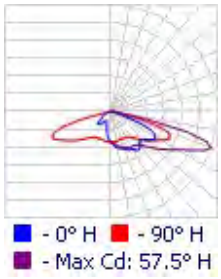
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	313 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	313 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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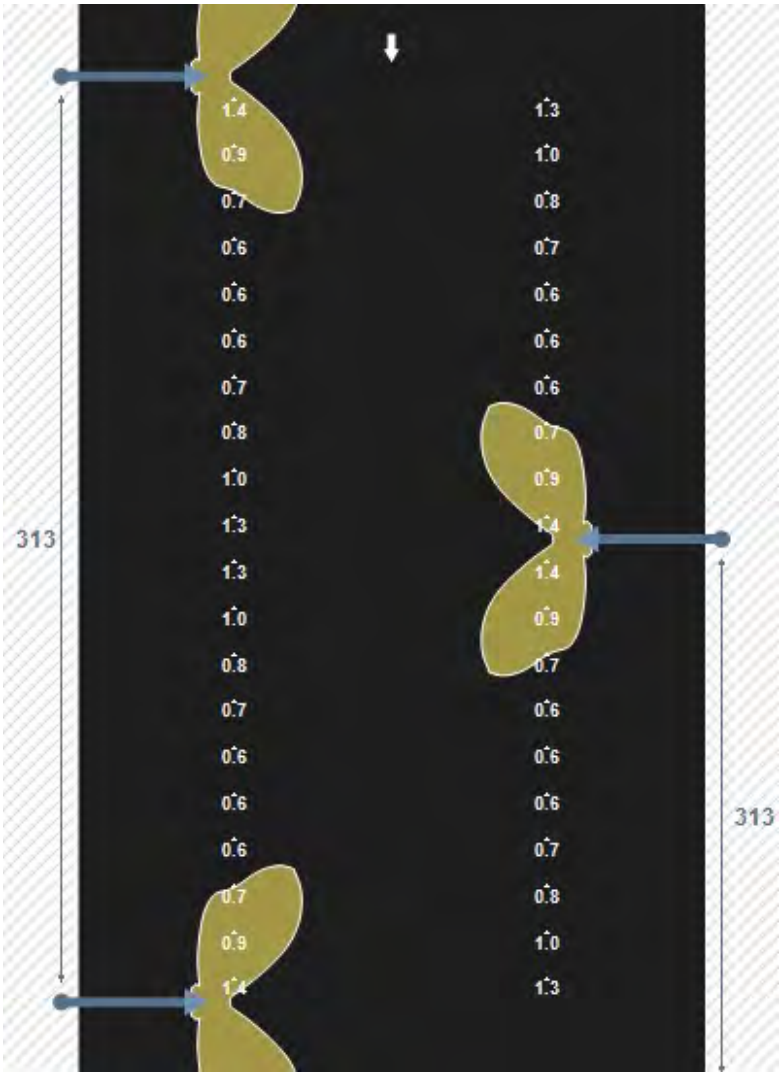

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	157.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	157.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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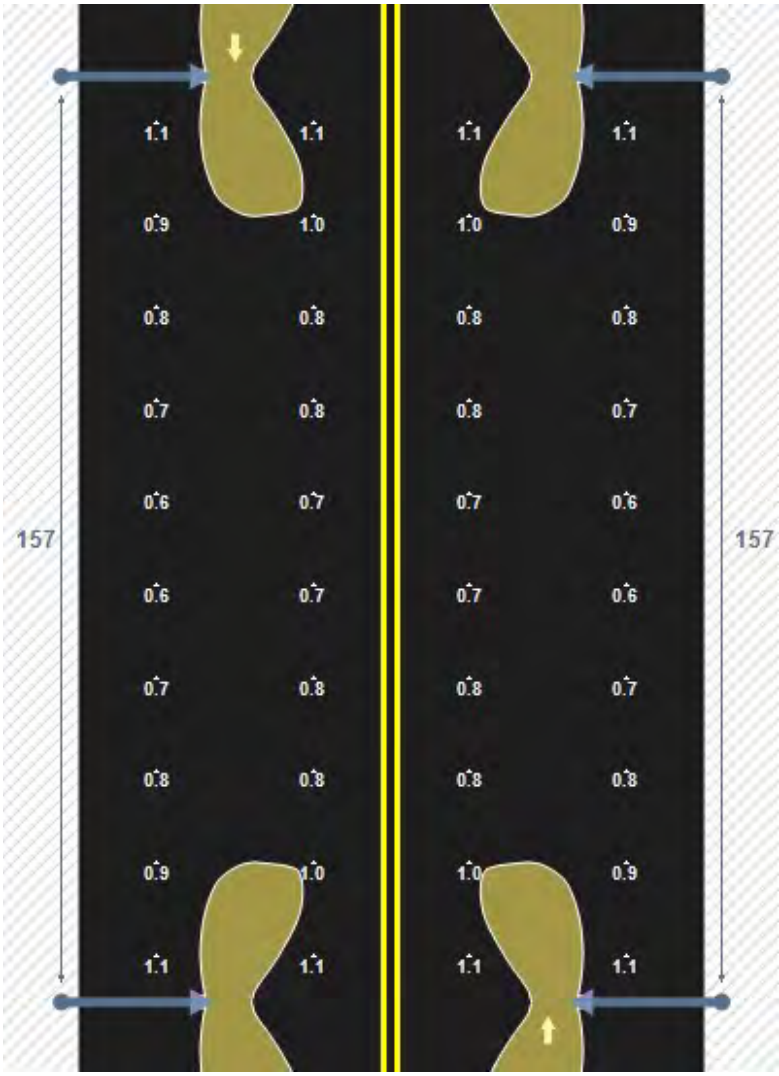

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

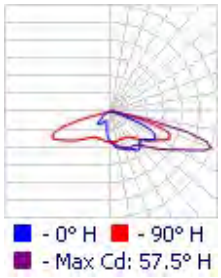
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

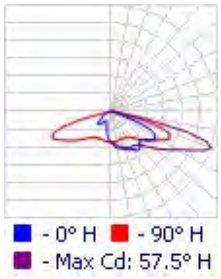
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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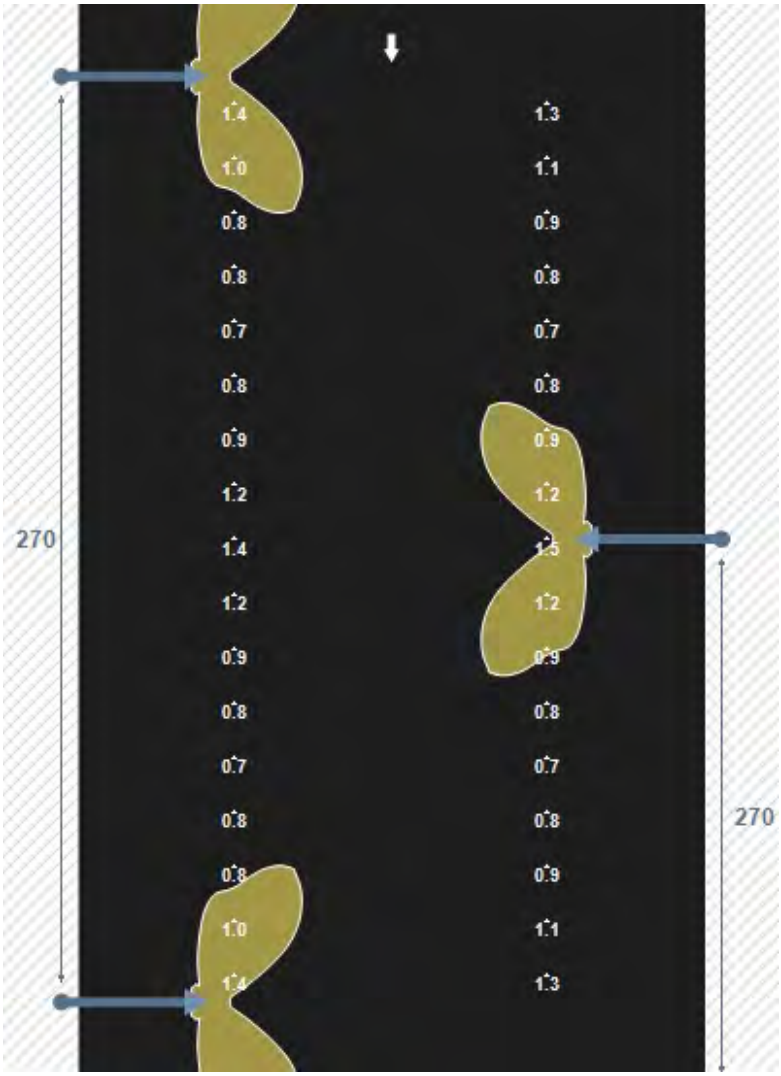

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

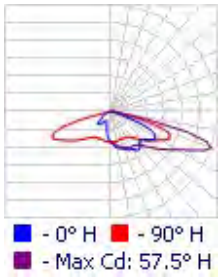
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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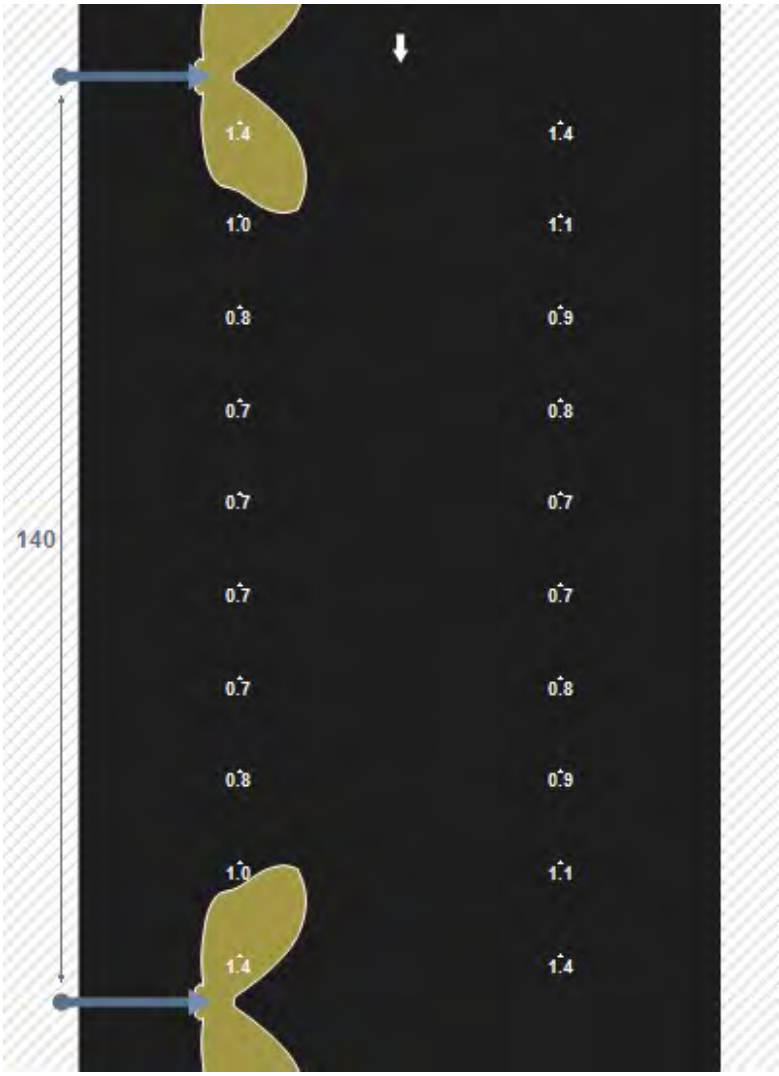

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc
Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

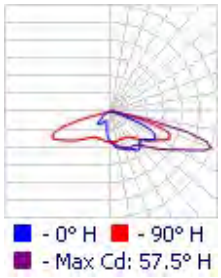
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

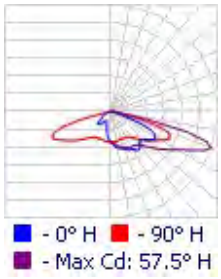
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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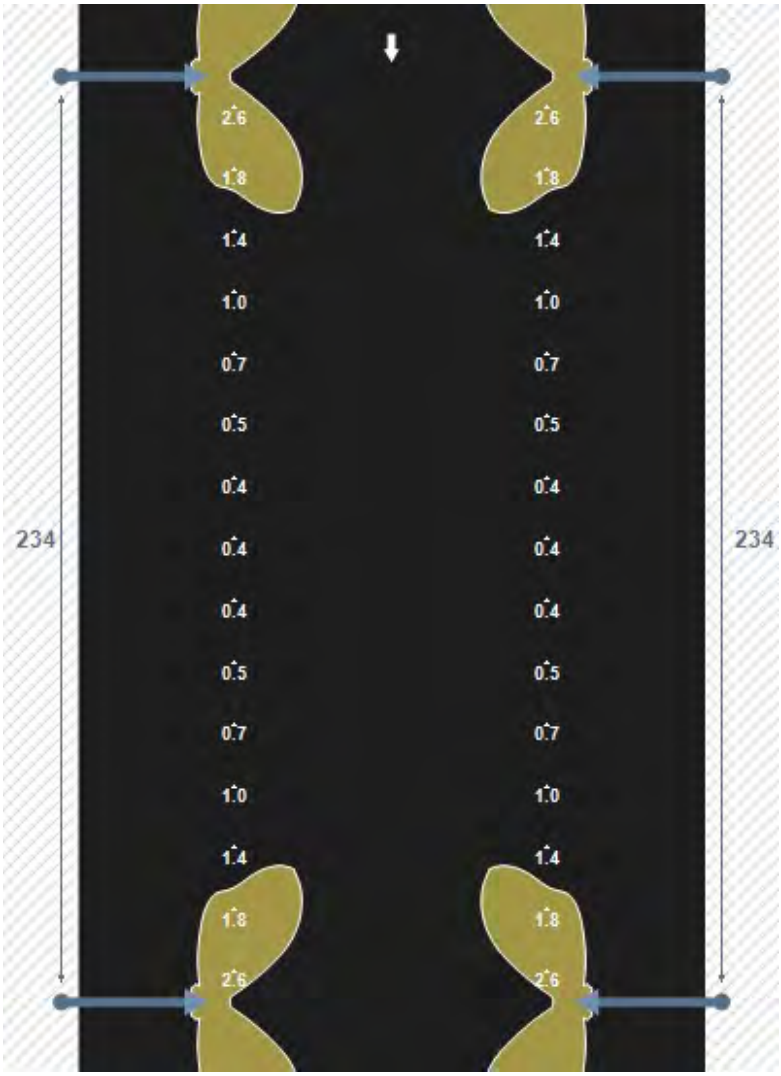
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

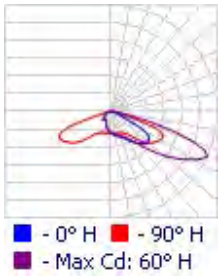
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	109.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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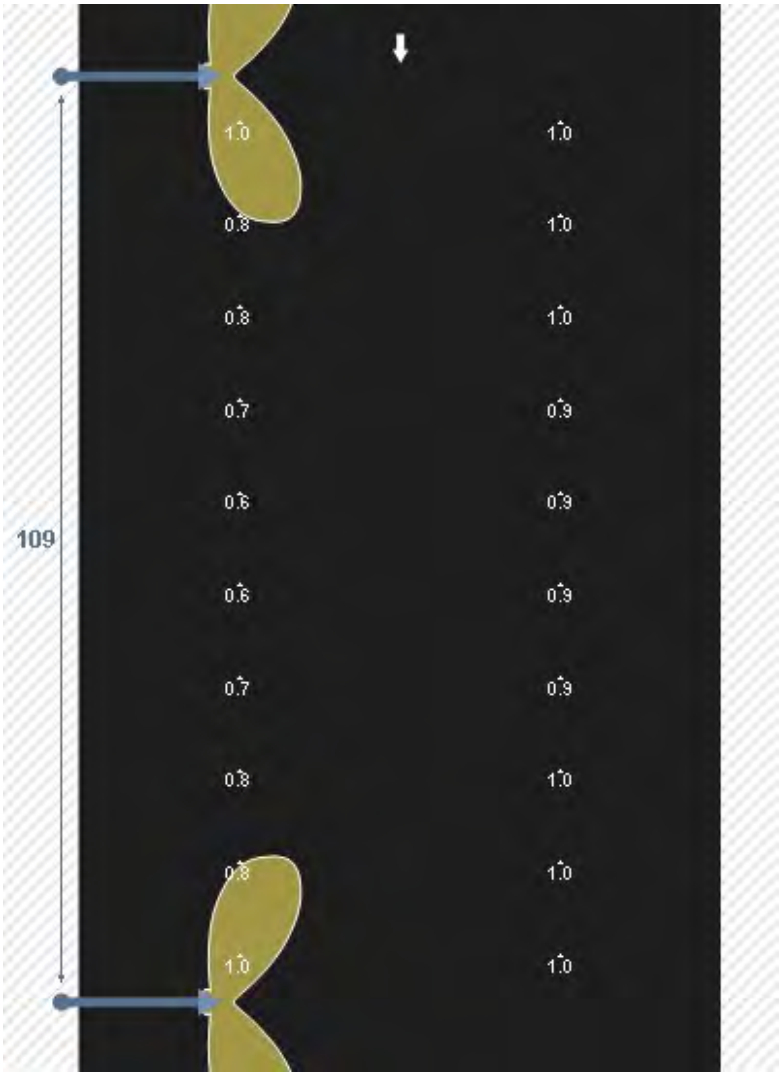
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.6	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

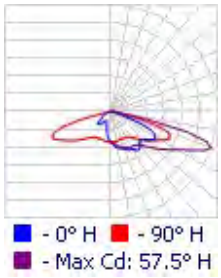
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

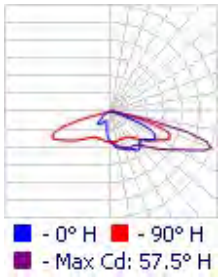
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	309.51 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	309.51 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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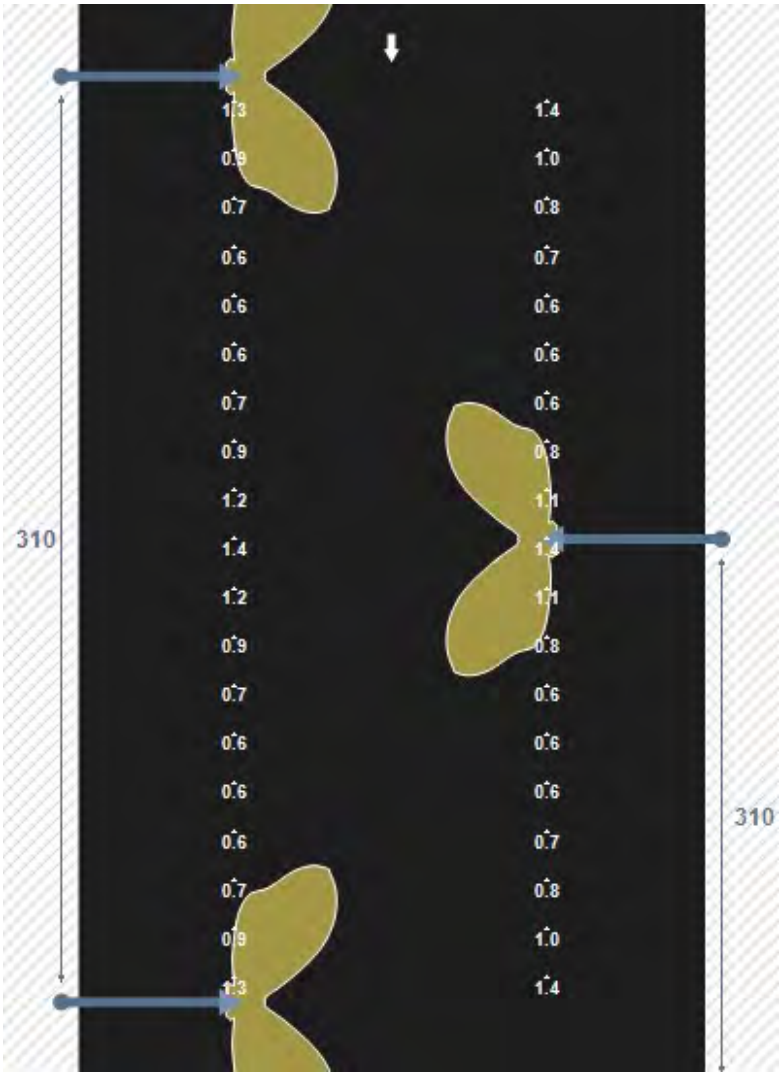

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	154 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	154 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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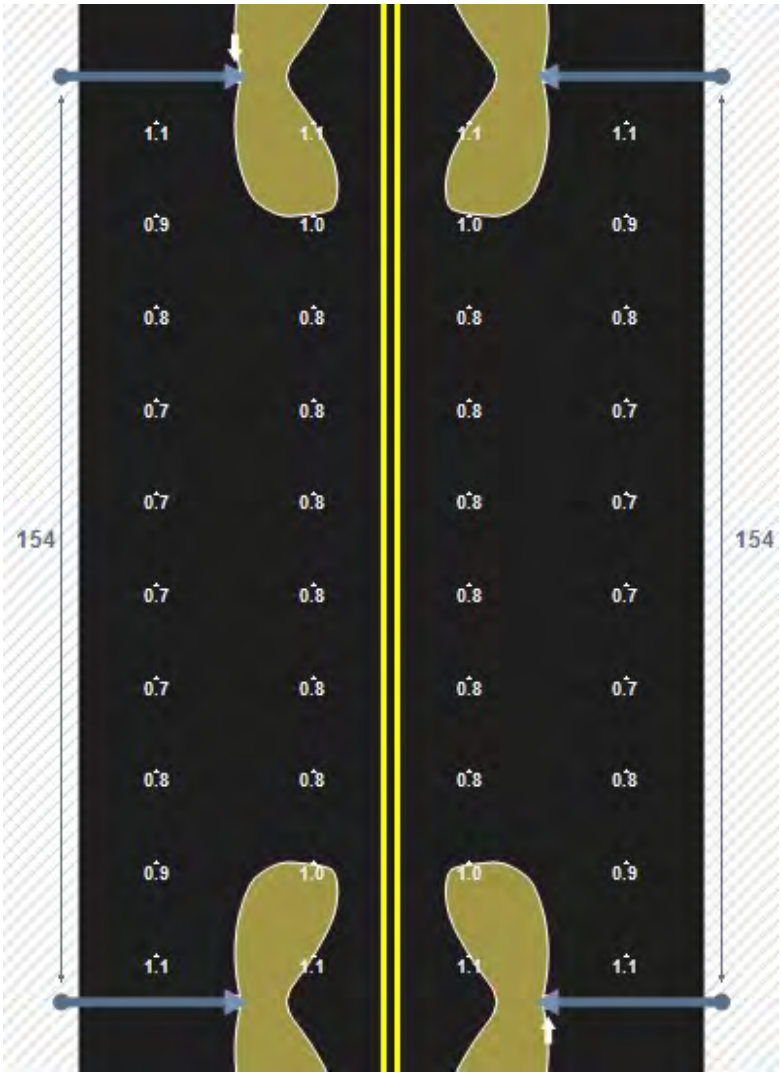
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

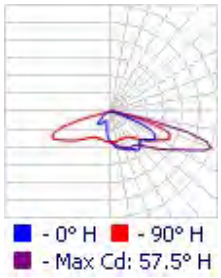
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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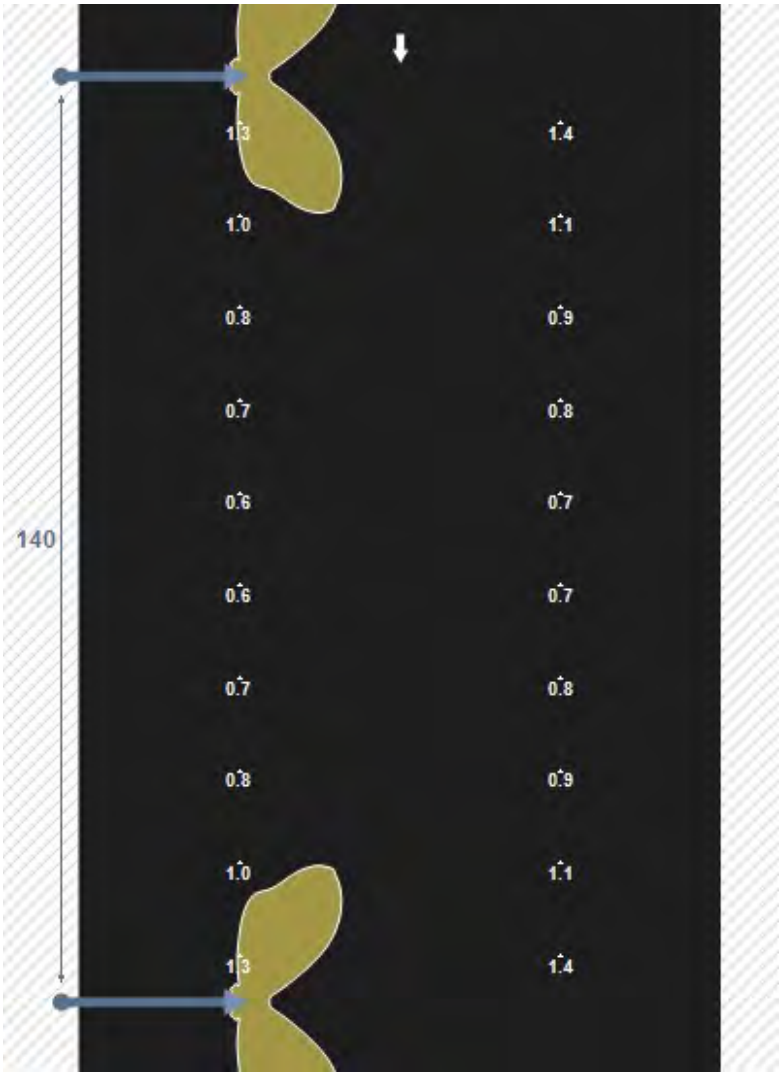

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

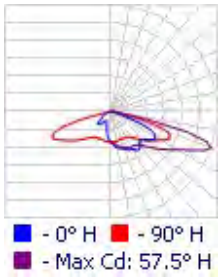
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

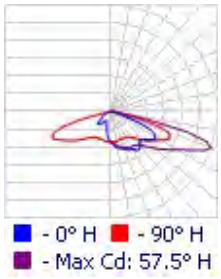
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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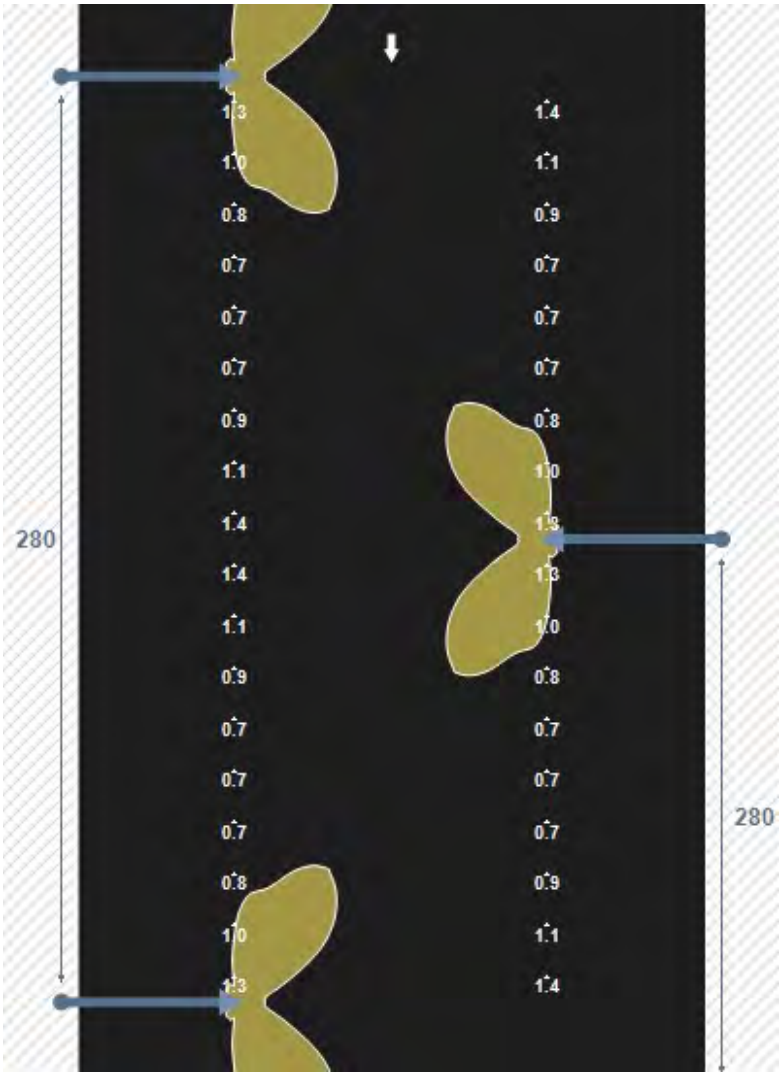

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

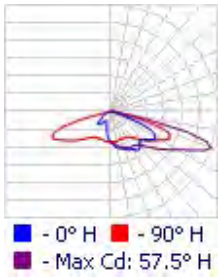
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

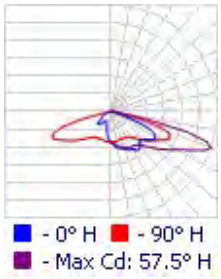
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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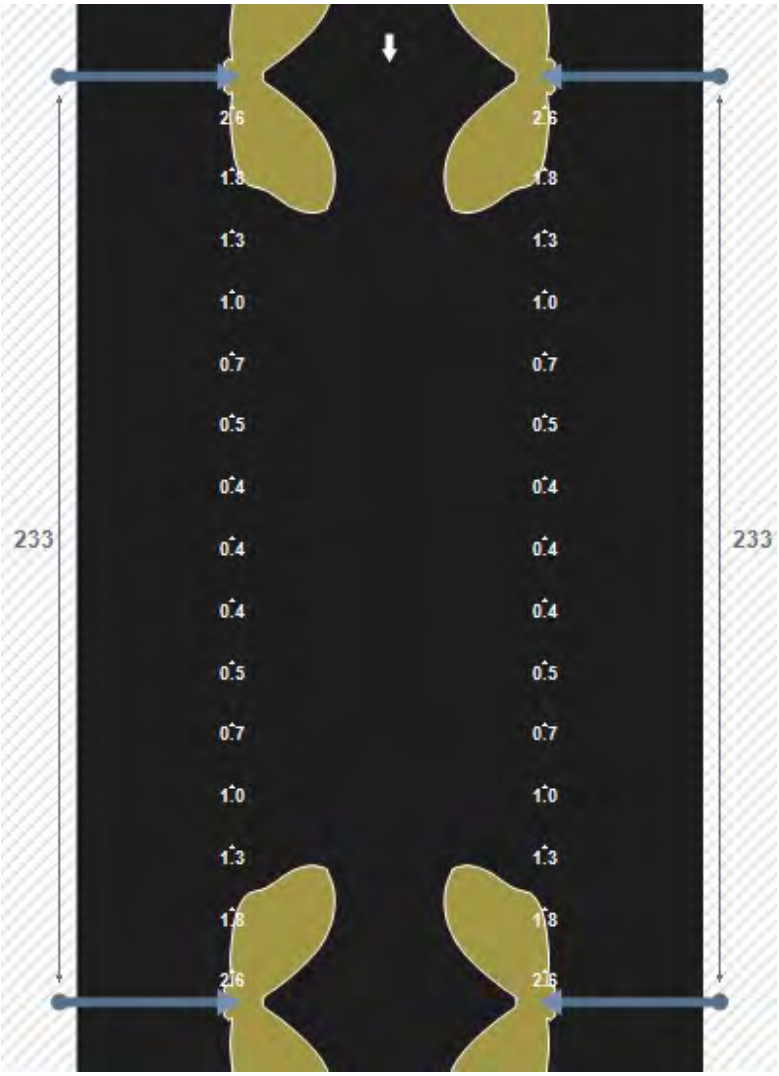

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

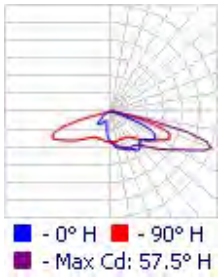
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	154.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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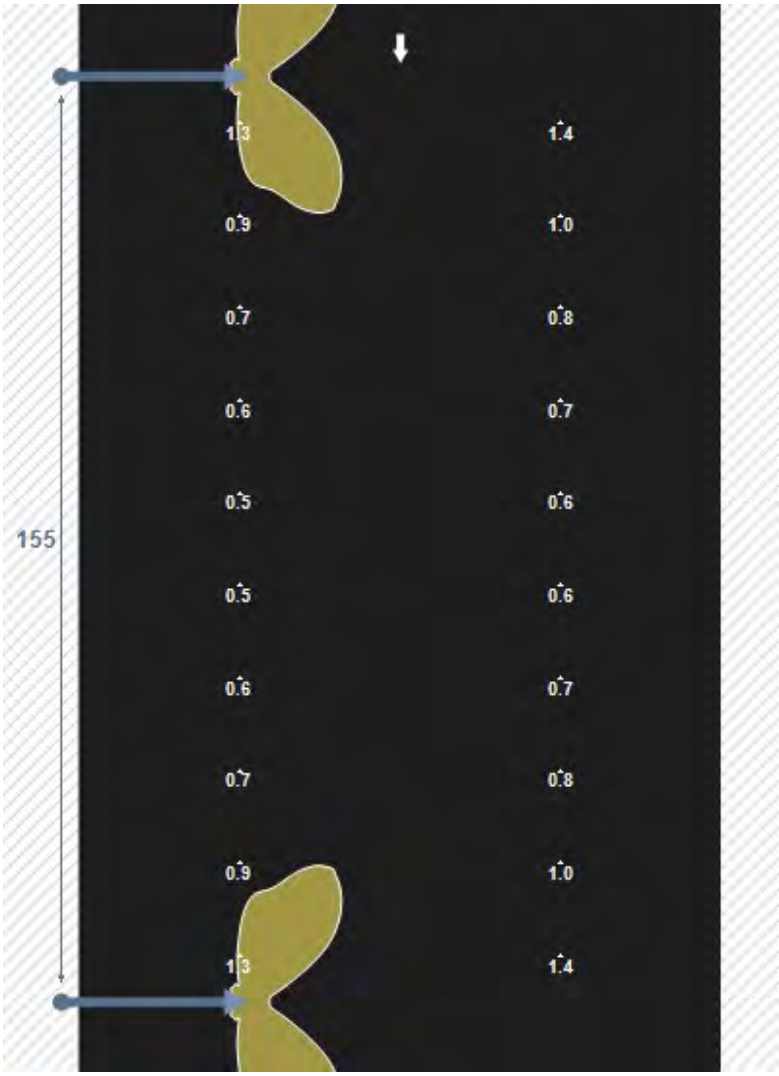

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.5	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

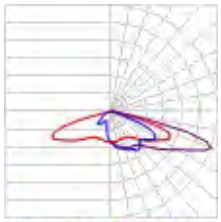
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

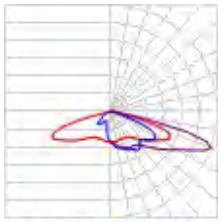
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	307.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	307.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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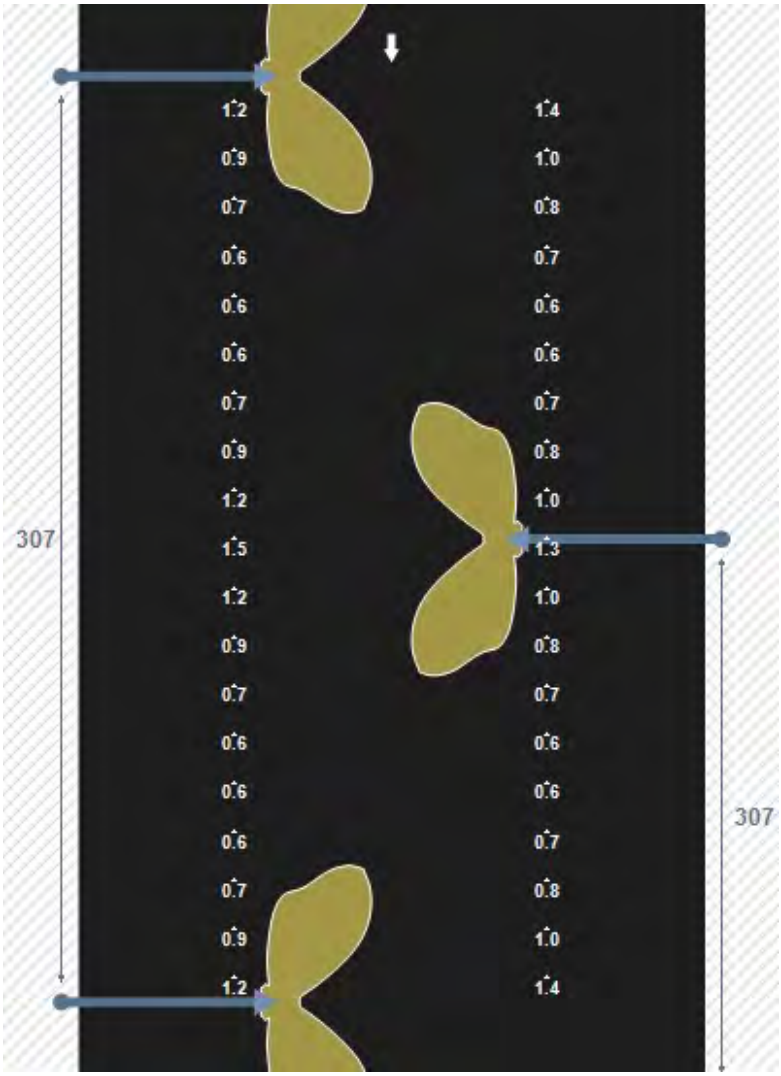

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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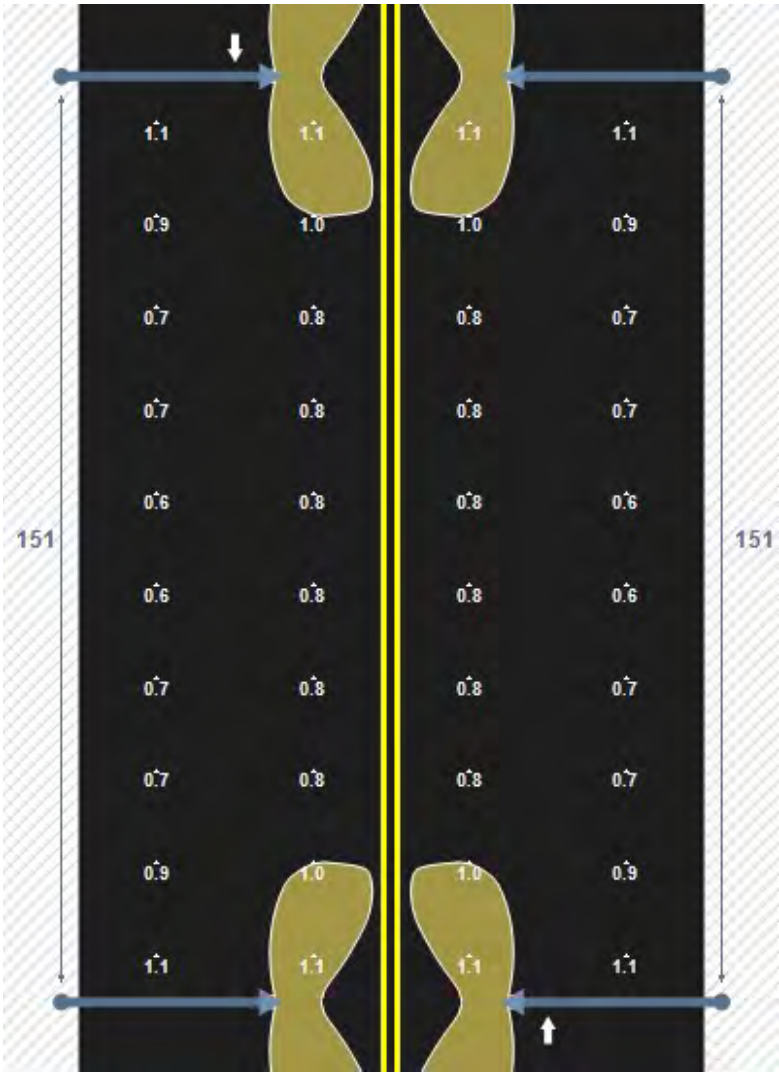

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

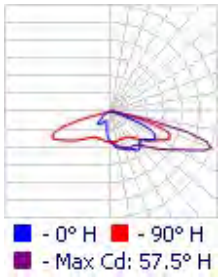
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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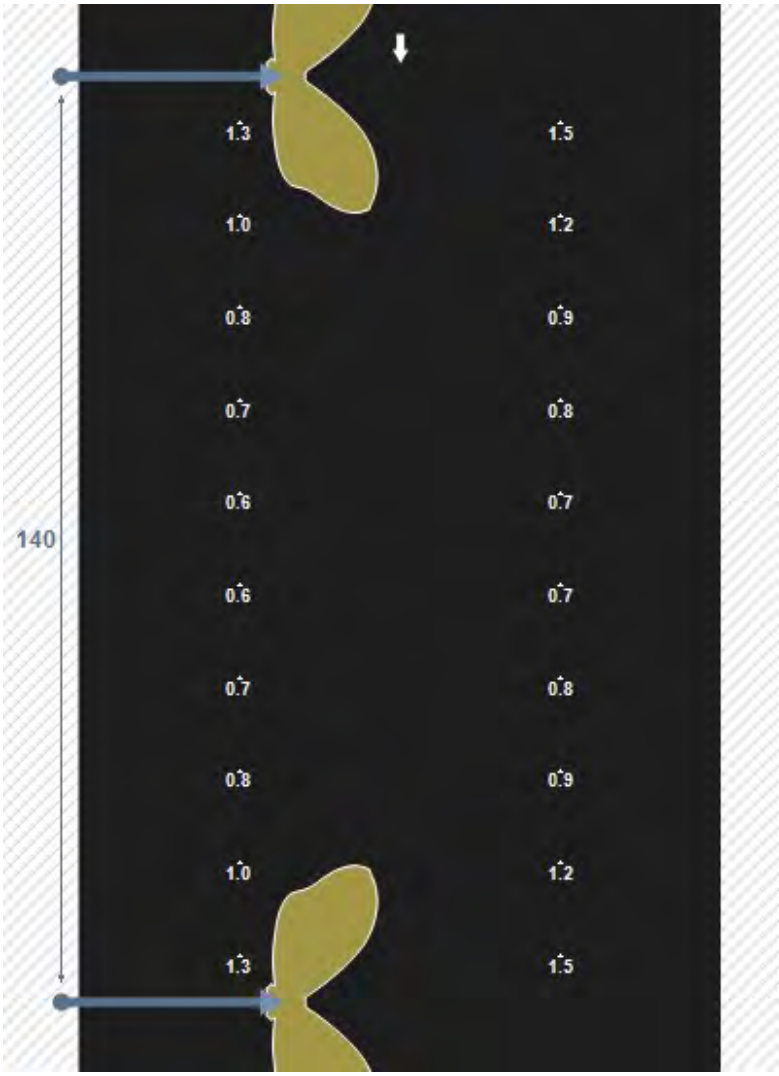

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

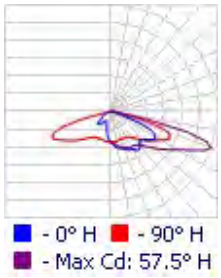
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

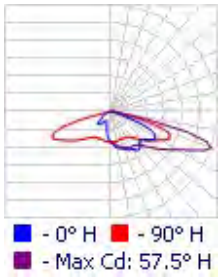
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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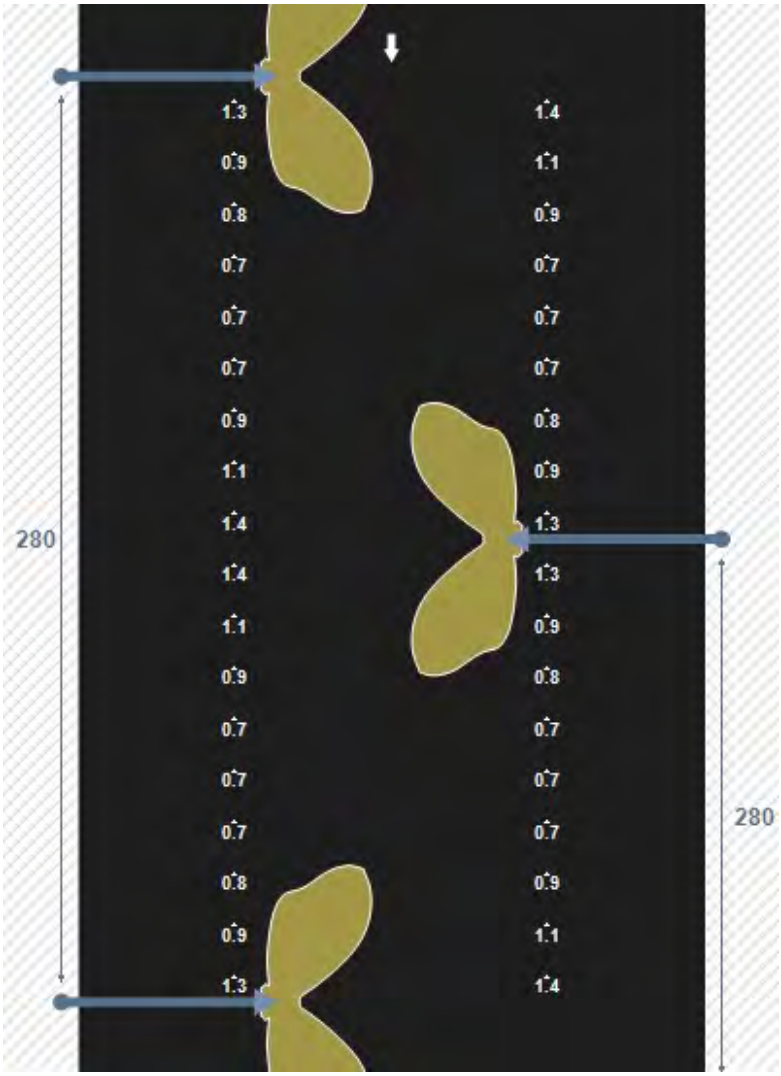

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

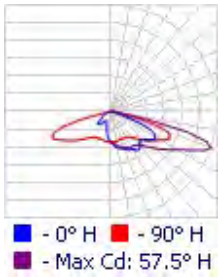
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

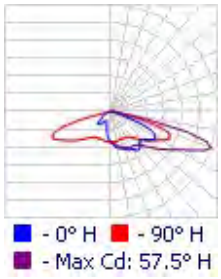
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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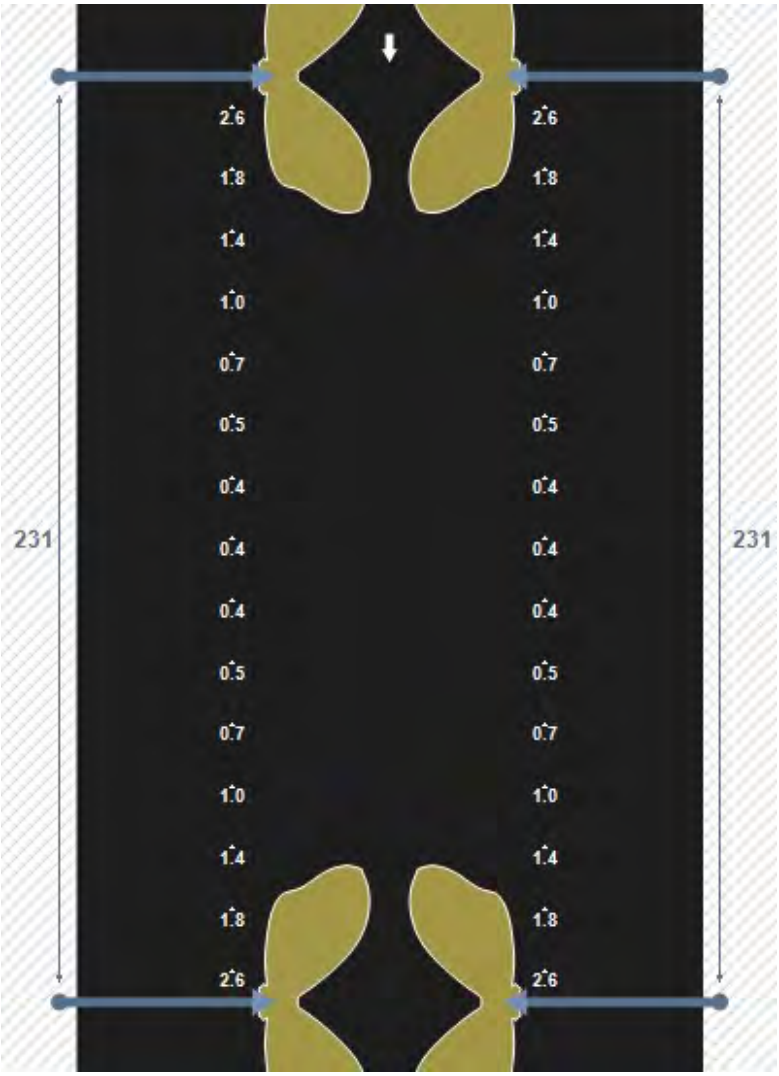

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

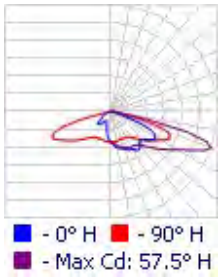
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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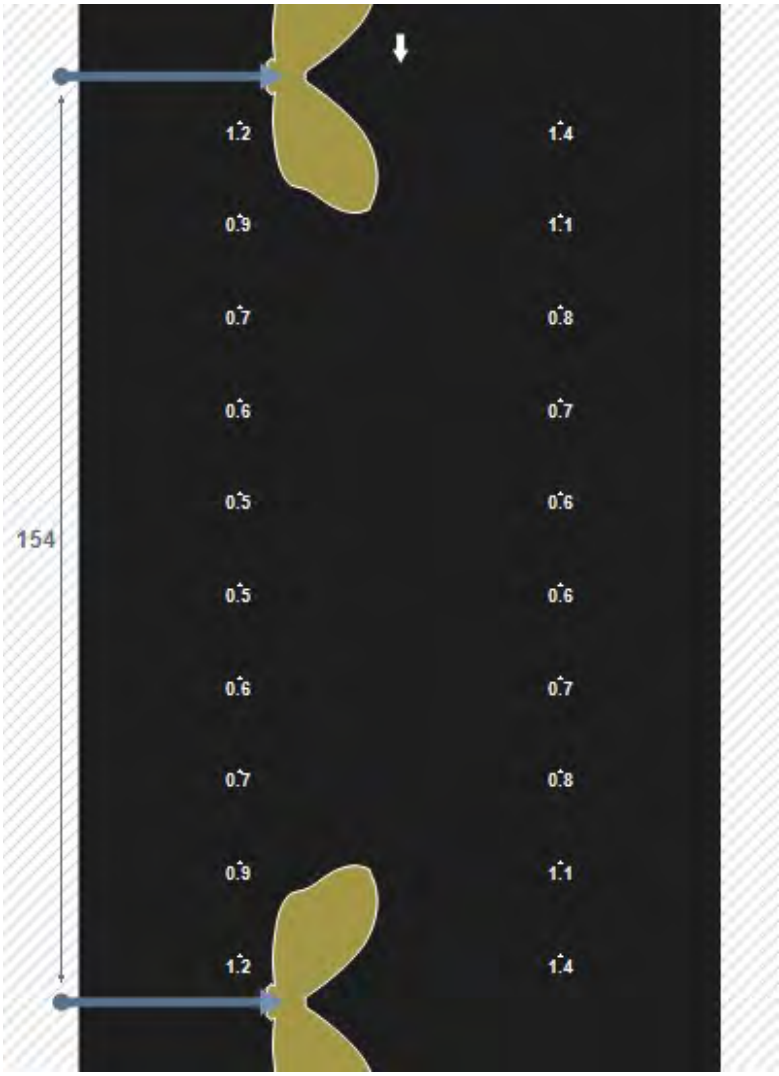

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.5	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

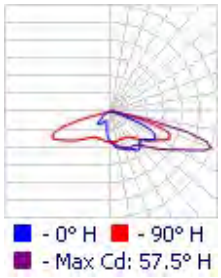
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

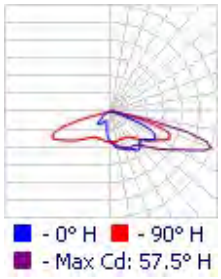
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	298.06 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	298.06 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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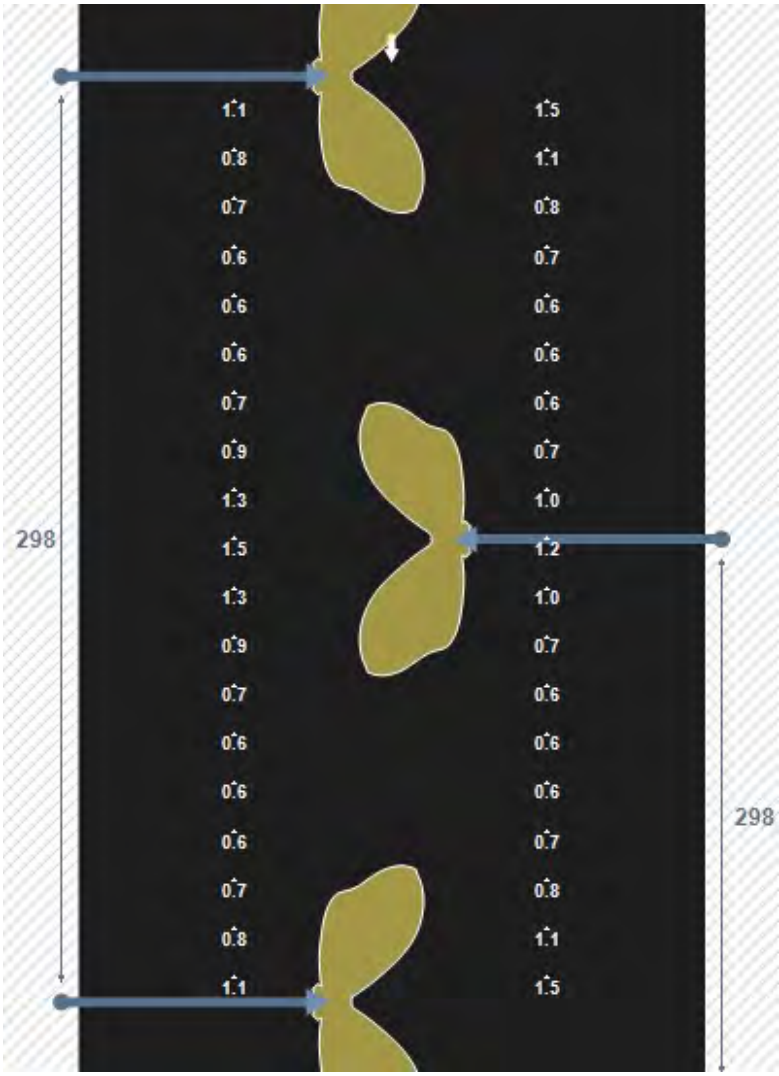

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	145.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	145.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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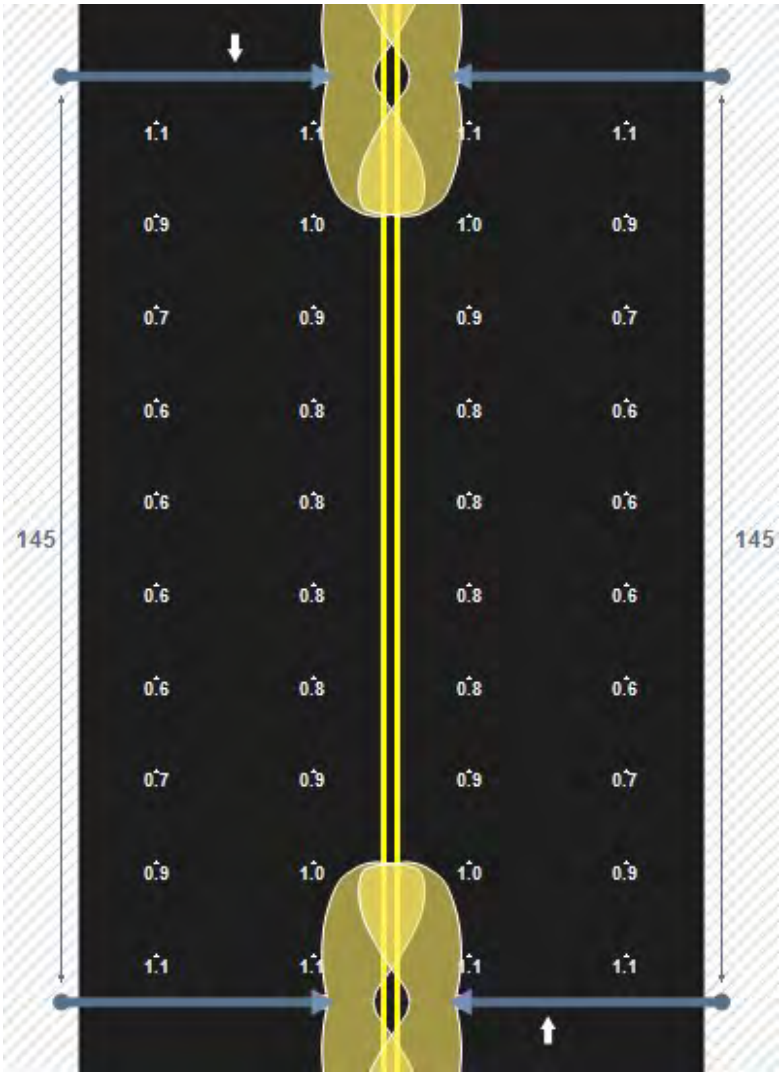

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.5	1.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

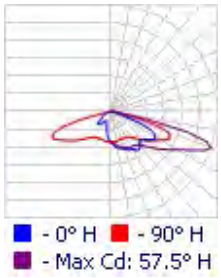
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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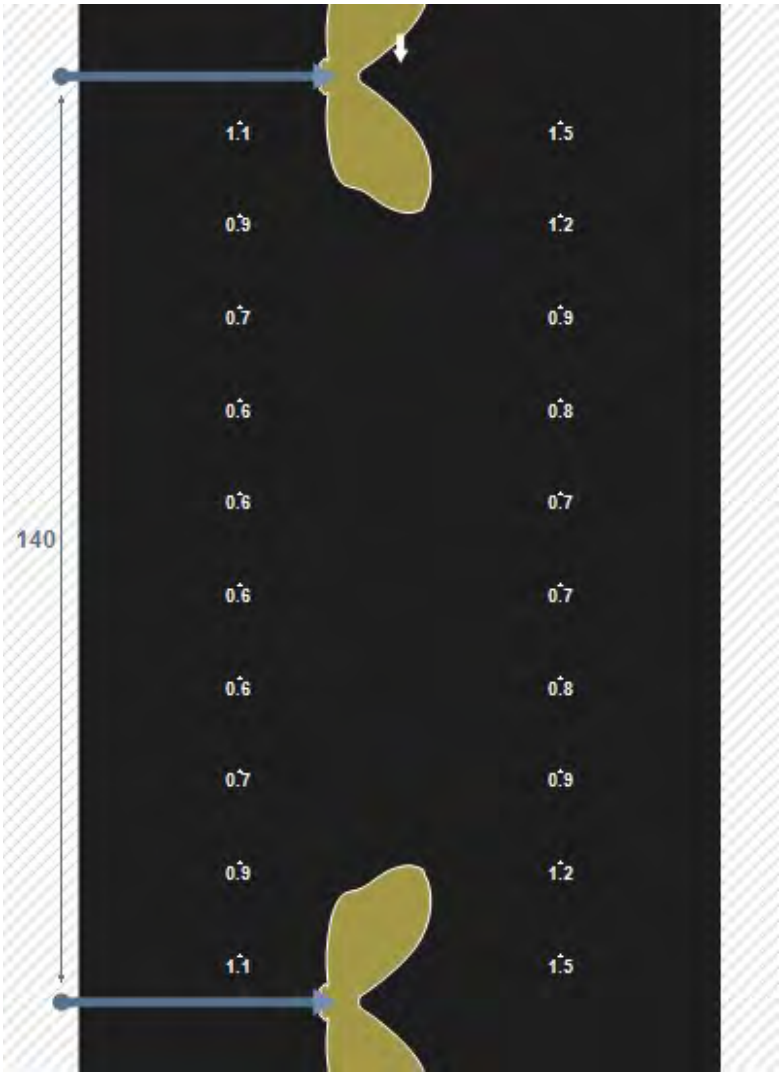

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

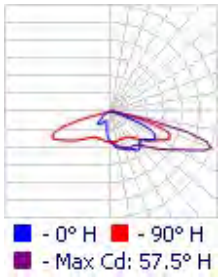
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

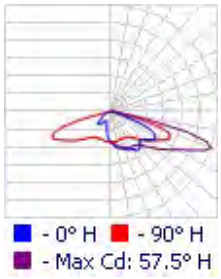
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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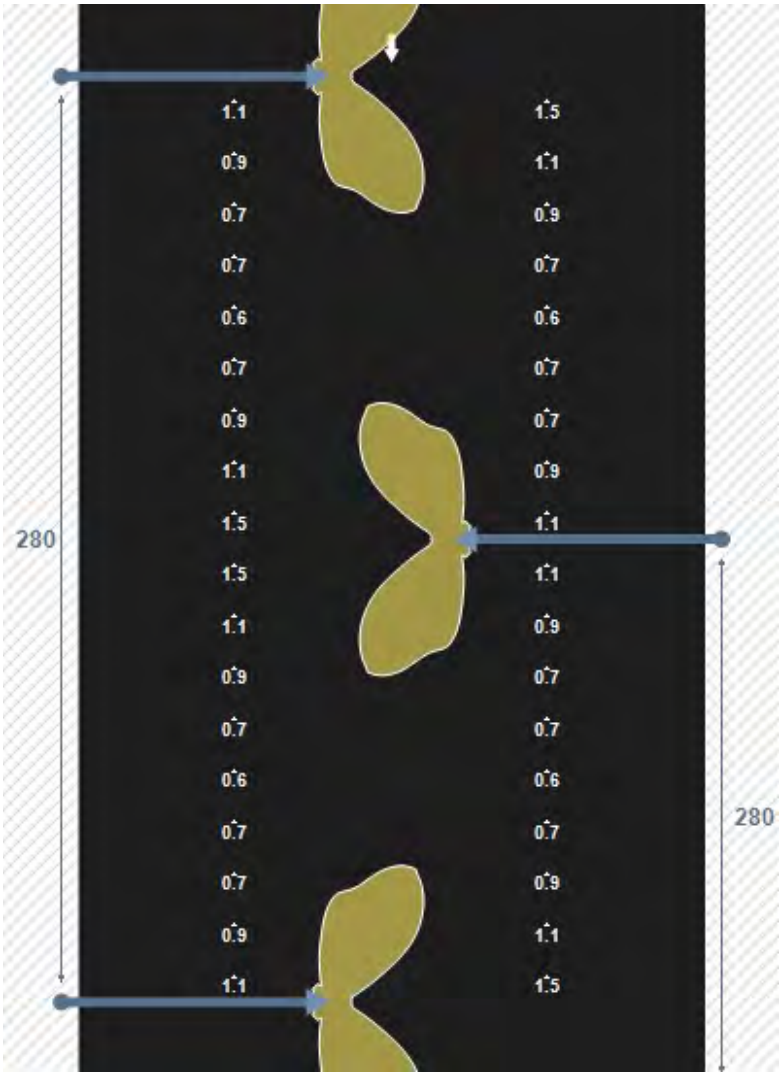

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

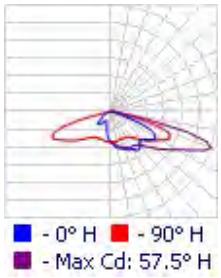
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

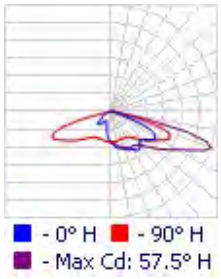
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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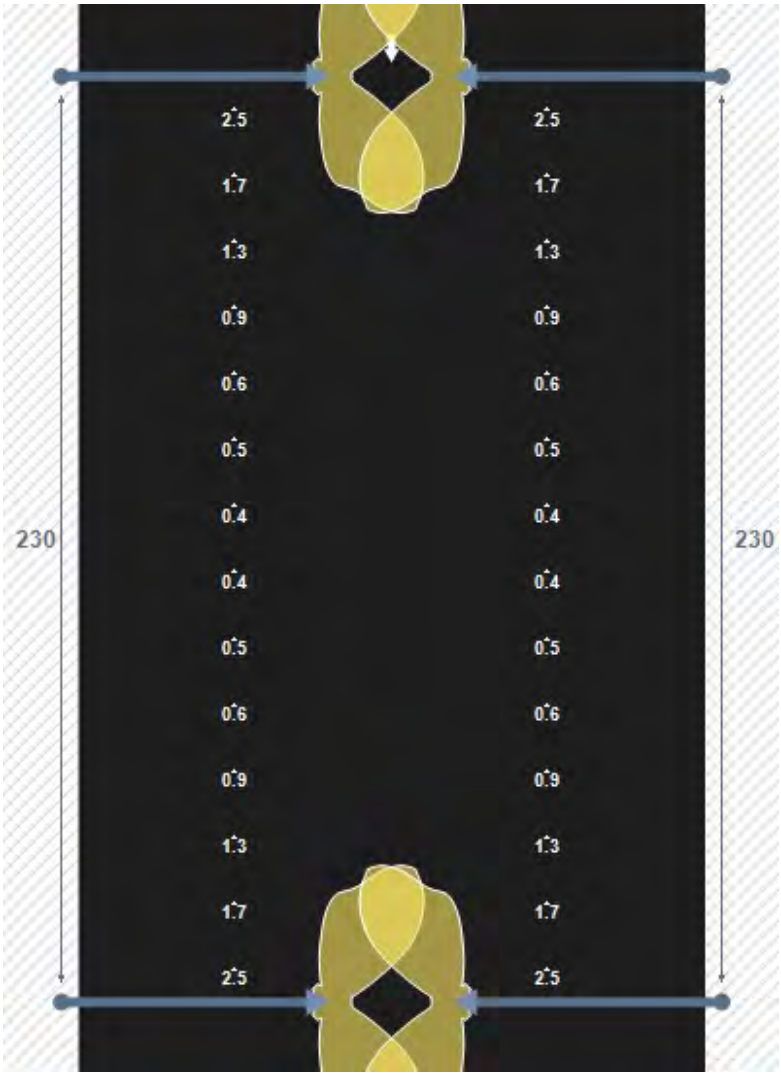
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.1	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

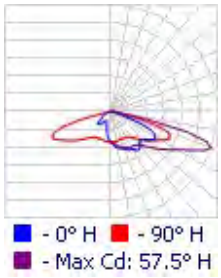
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	148.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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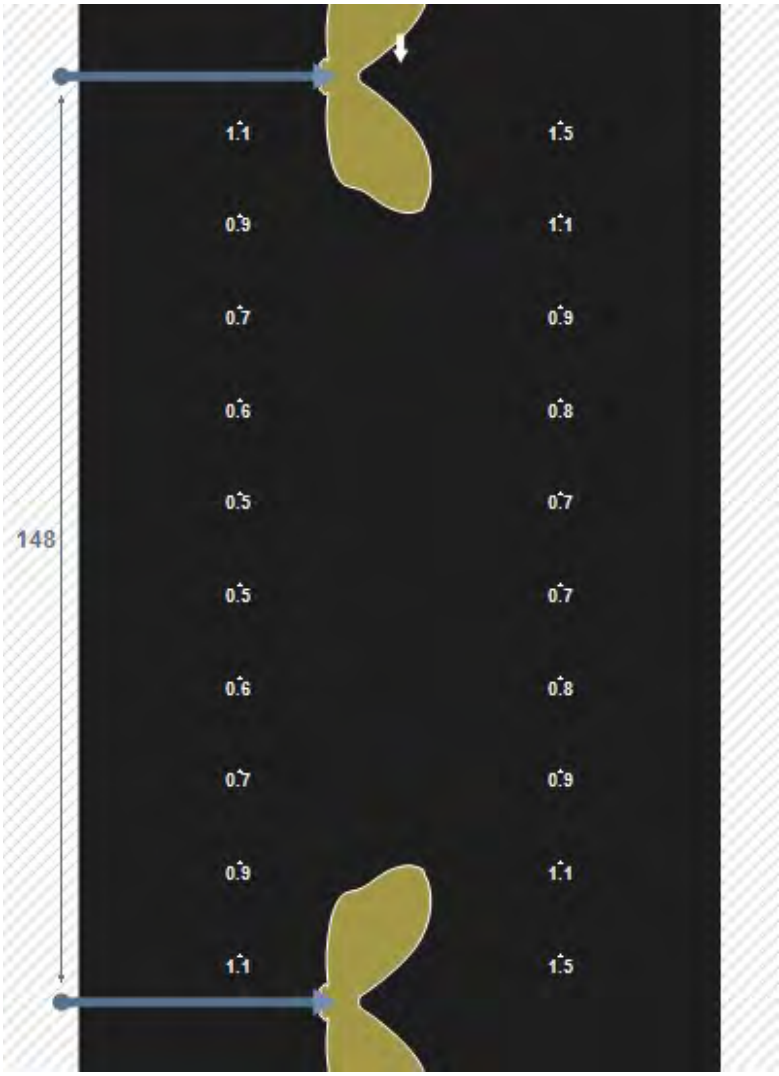

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.5	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

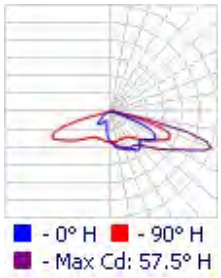
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

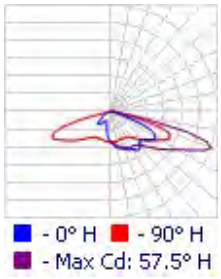
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	316.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	316.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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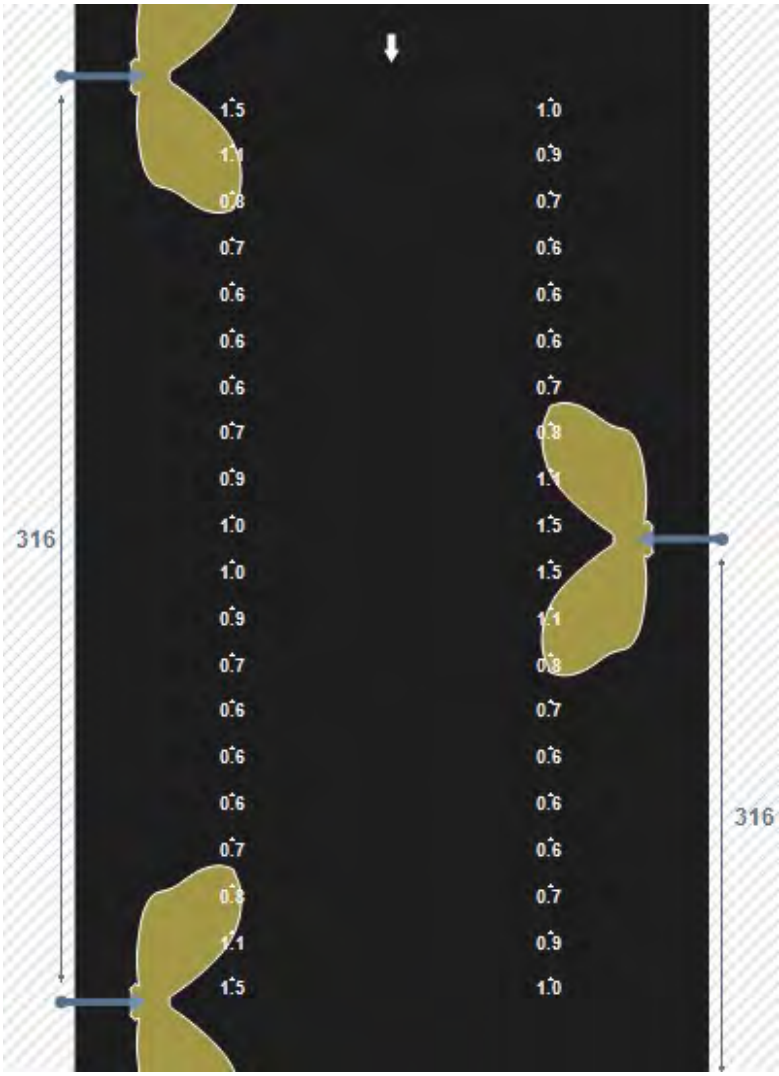

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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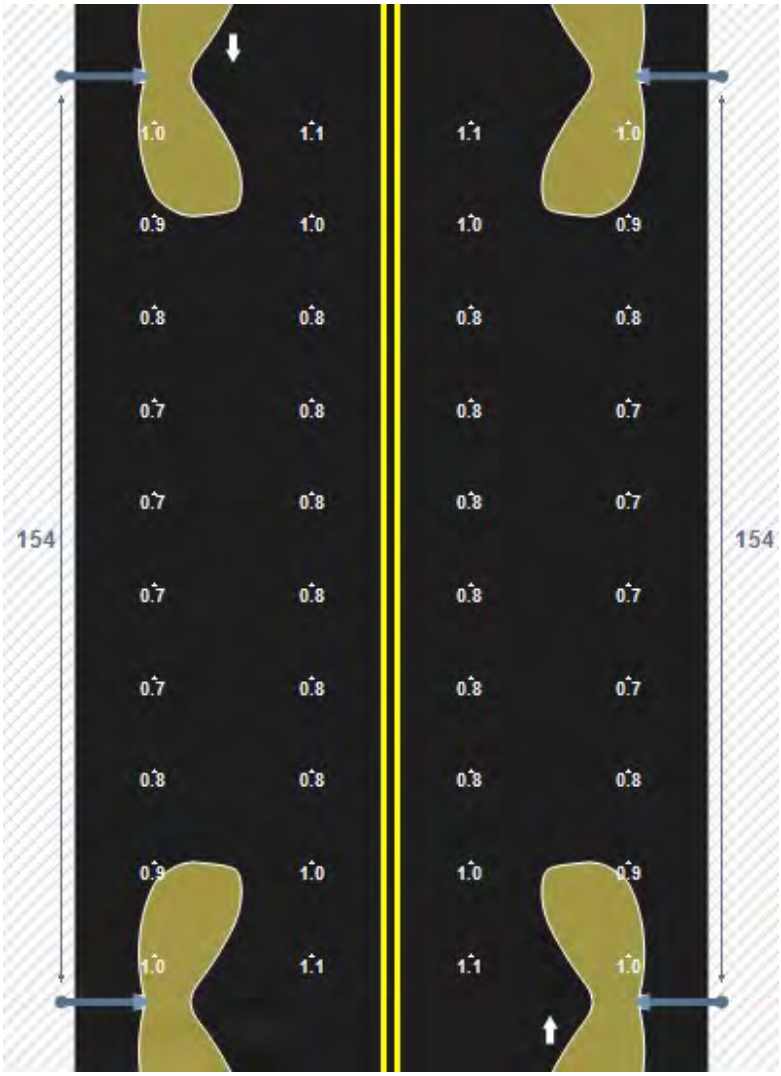

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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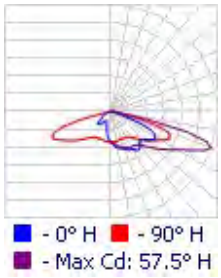
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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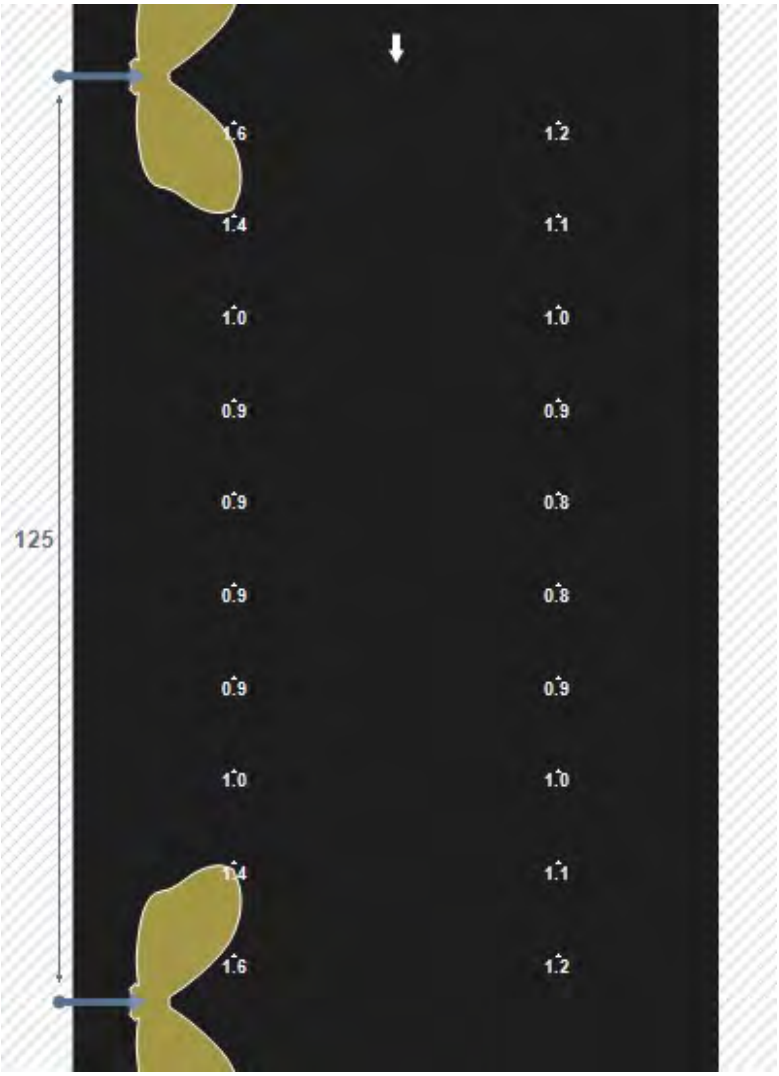

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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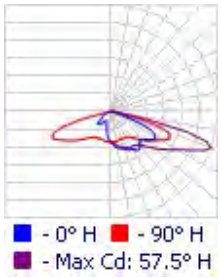
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

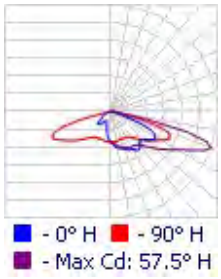
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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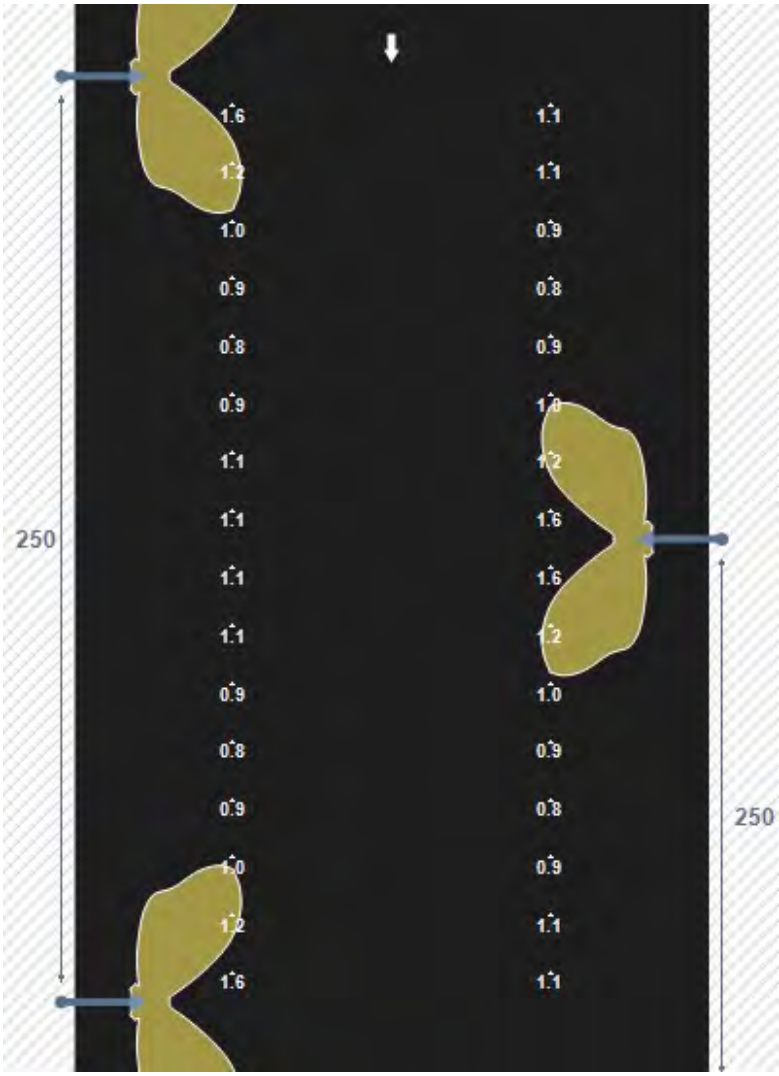

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

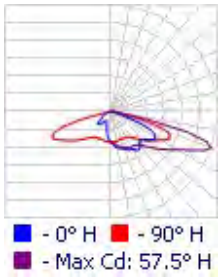
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

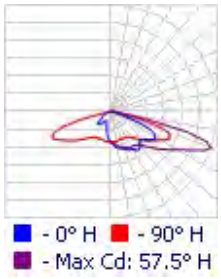
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	240 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	240 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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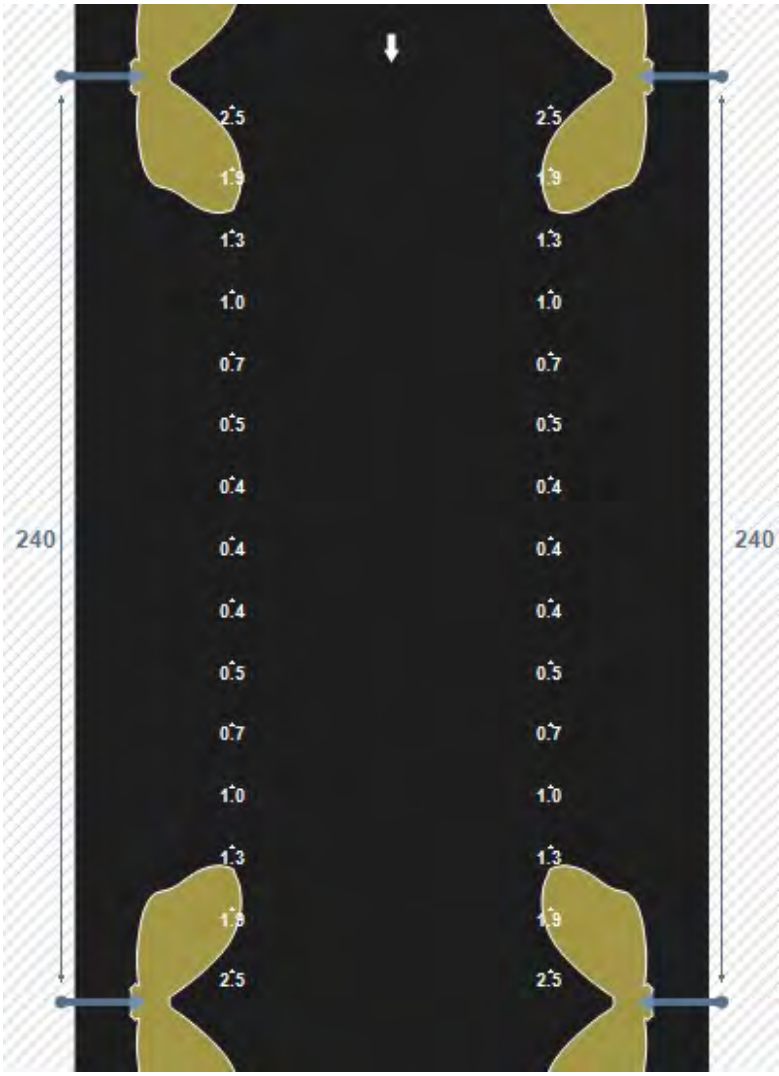

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3.1	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

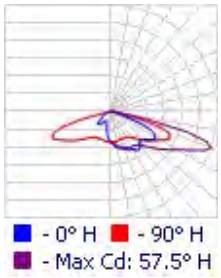
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

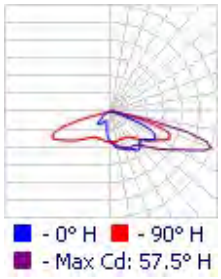
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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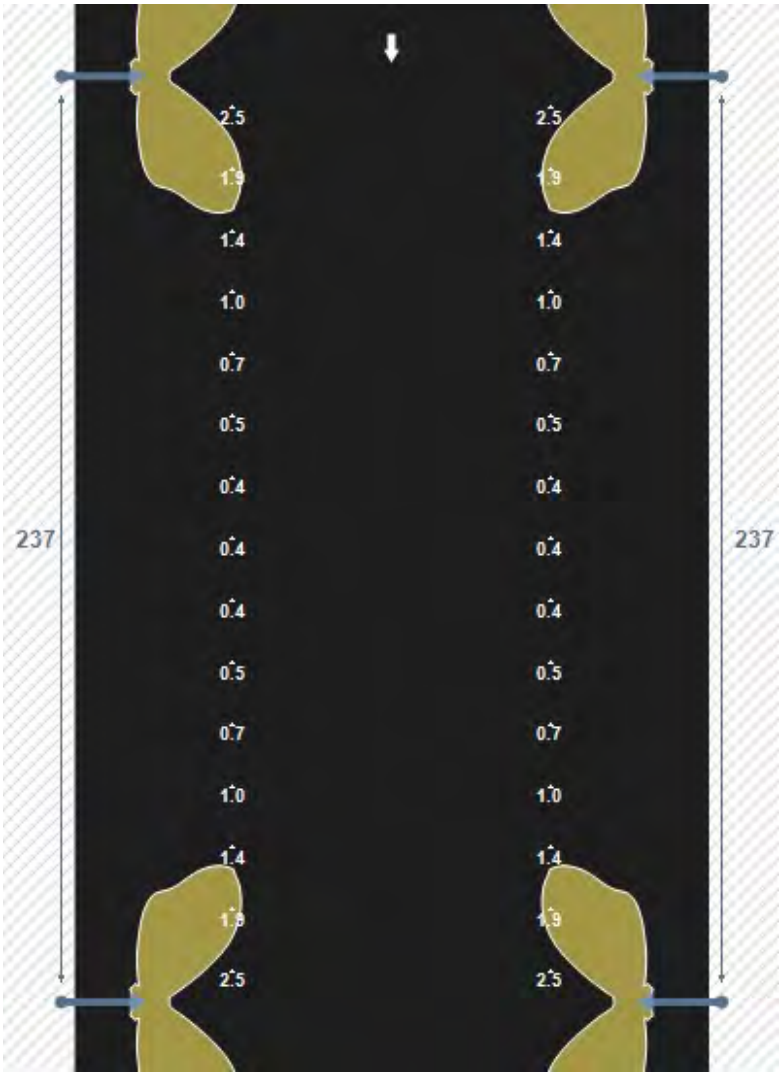

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

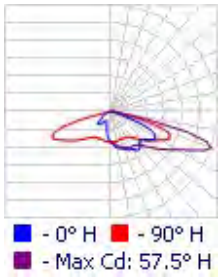
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	158.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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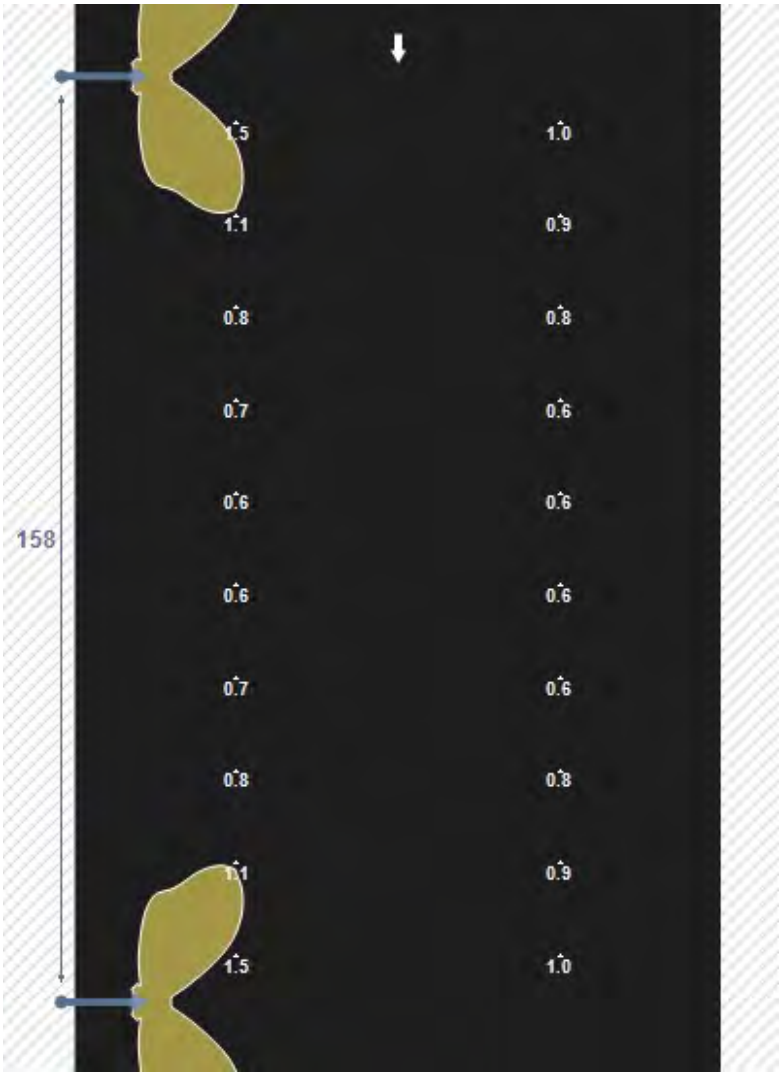

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

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Project Description

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Your Email

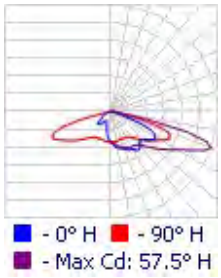
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

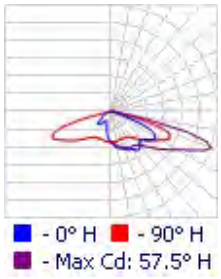
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	315.83 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	315.83 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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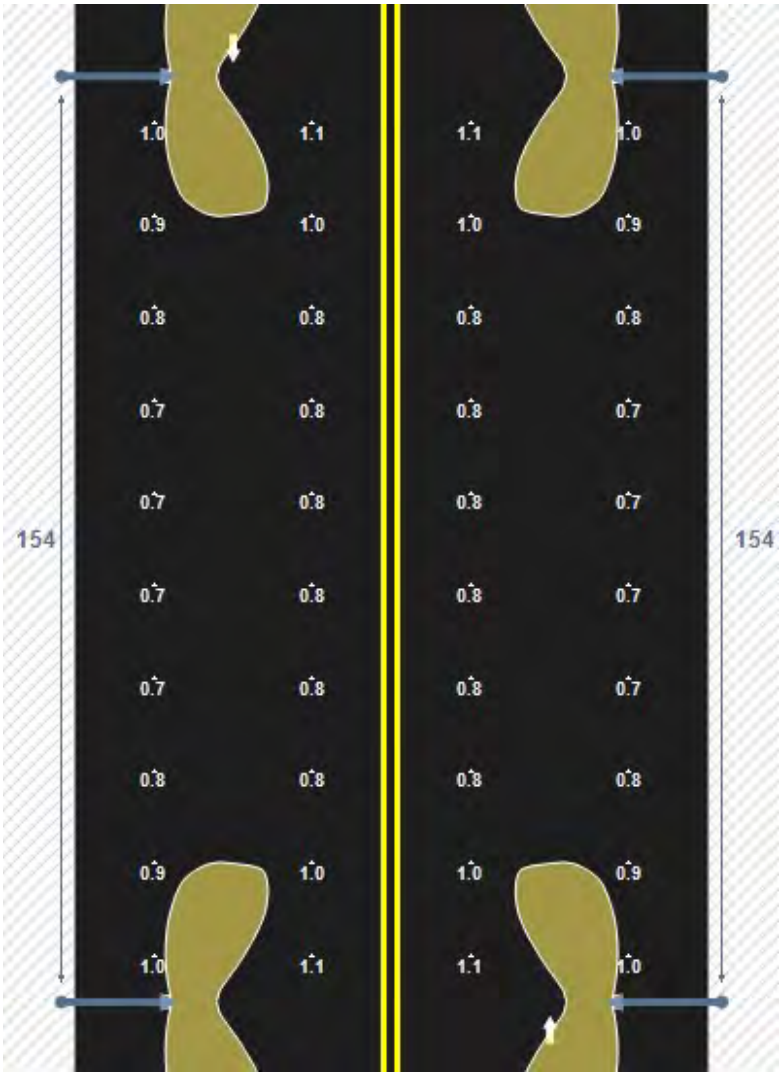

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
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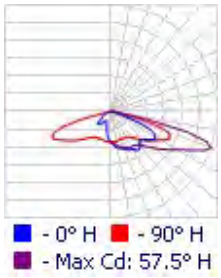
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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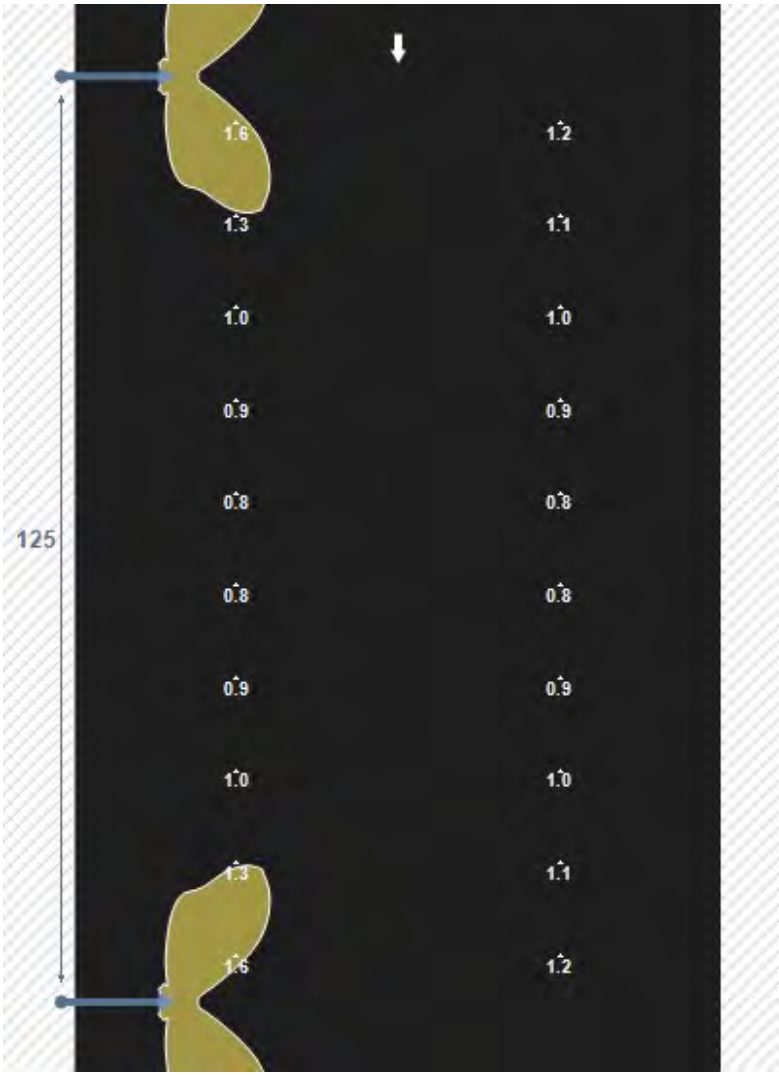

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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Your Email

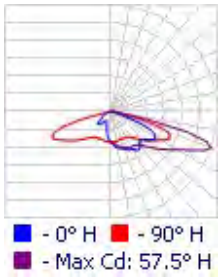
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

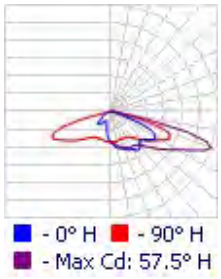
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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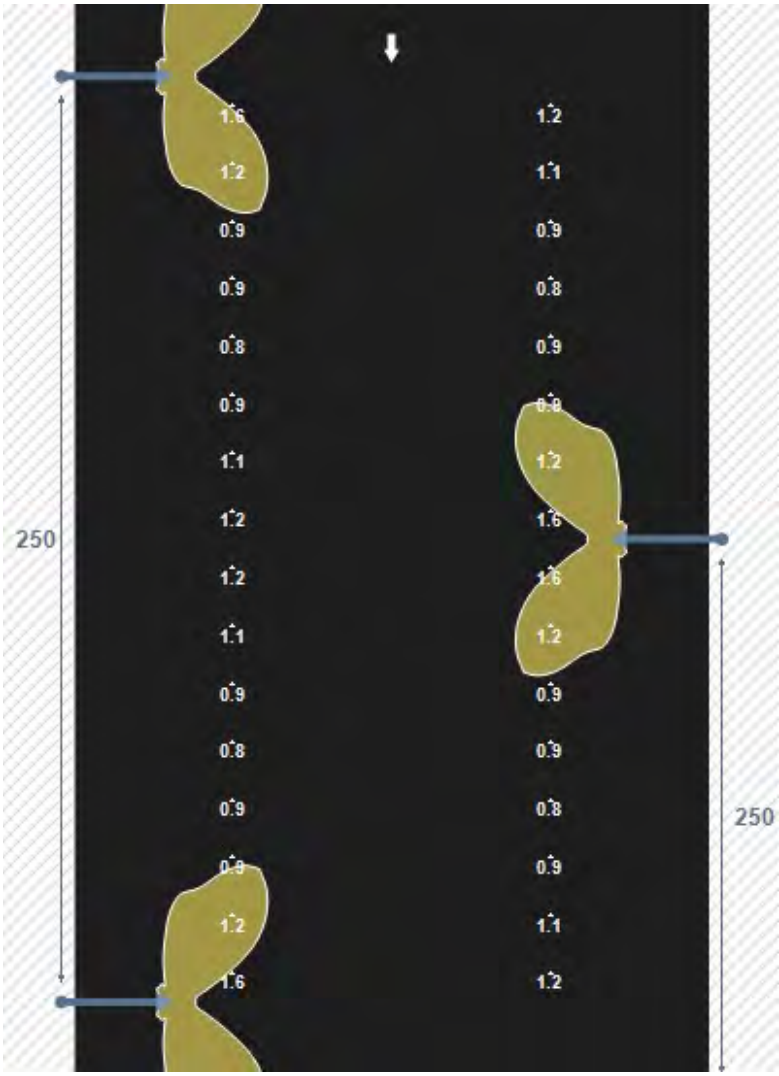

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

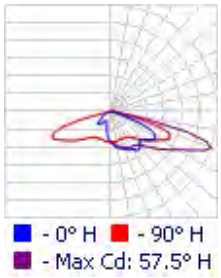
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

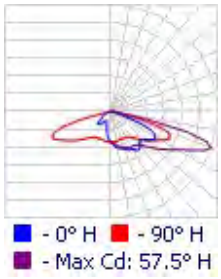
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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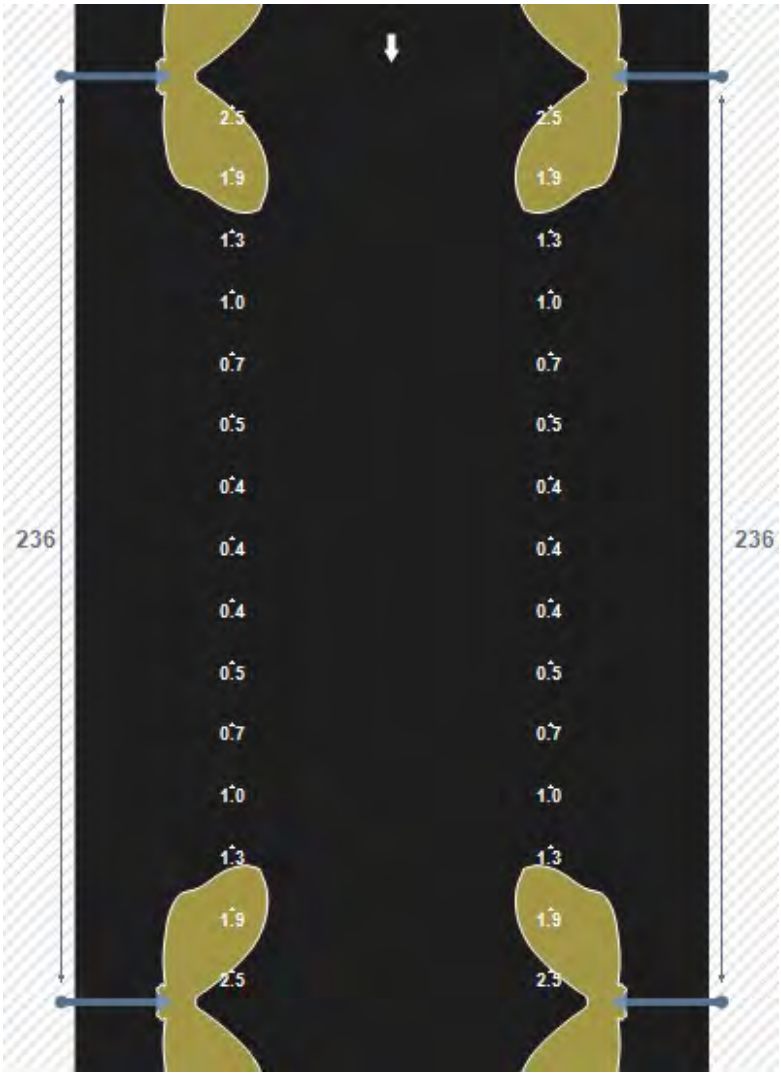

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

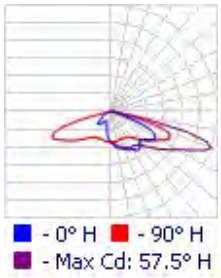
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	156.91 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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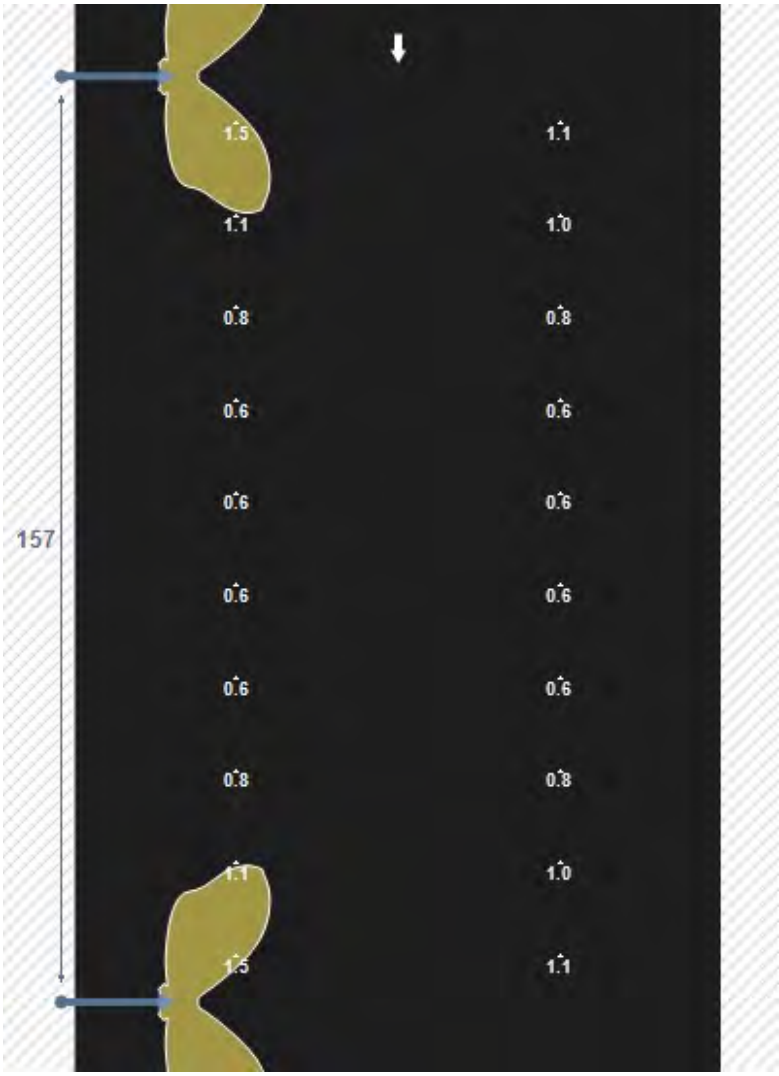

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

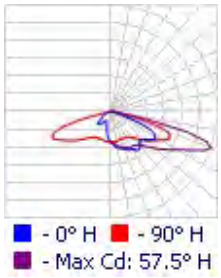
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

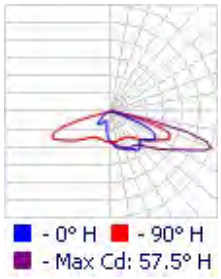
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	308.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	308.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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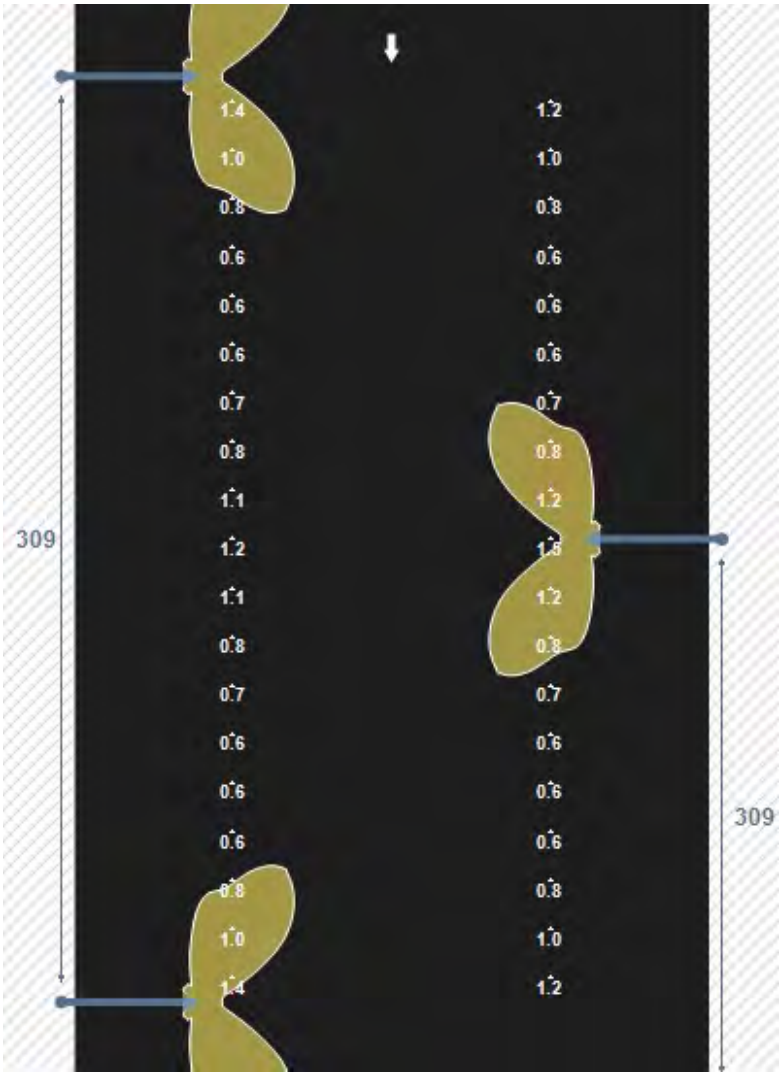

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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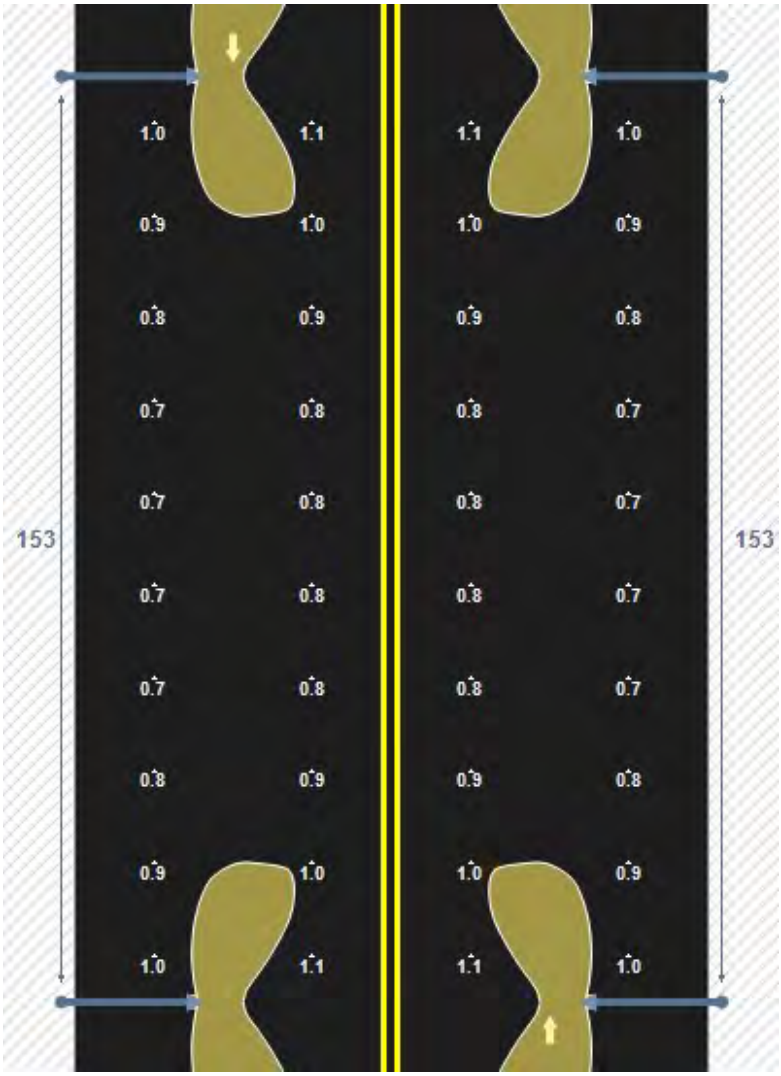

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

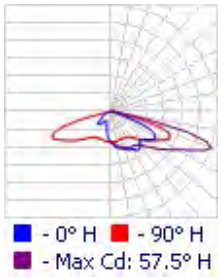
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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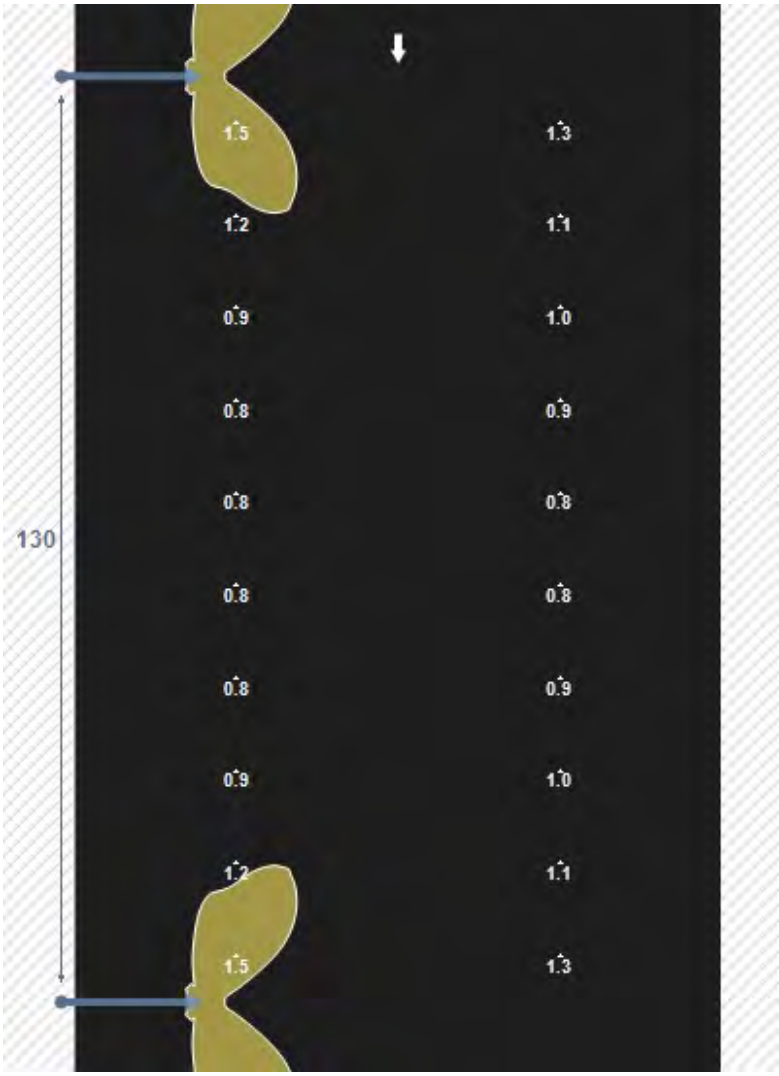

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.8	--	fc
Ave/Min:	1.4	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

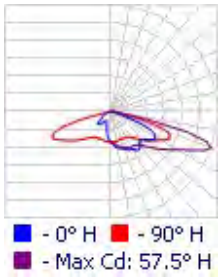
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

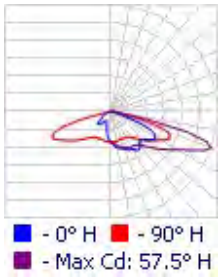
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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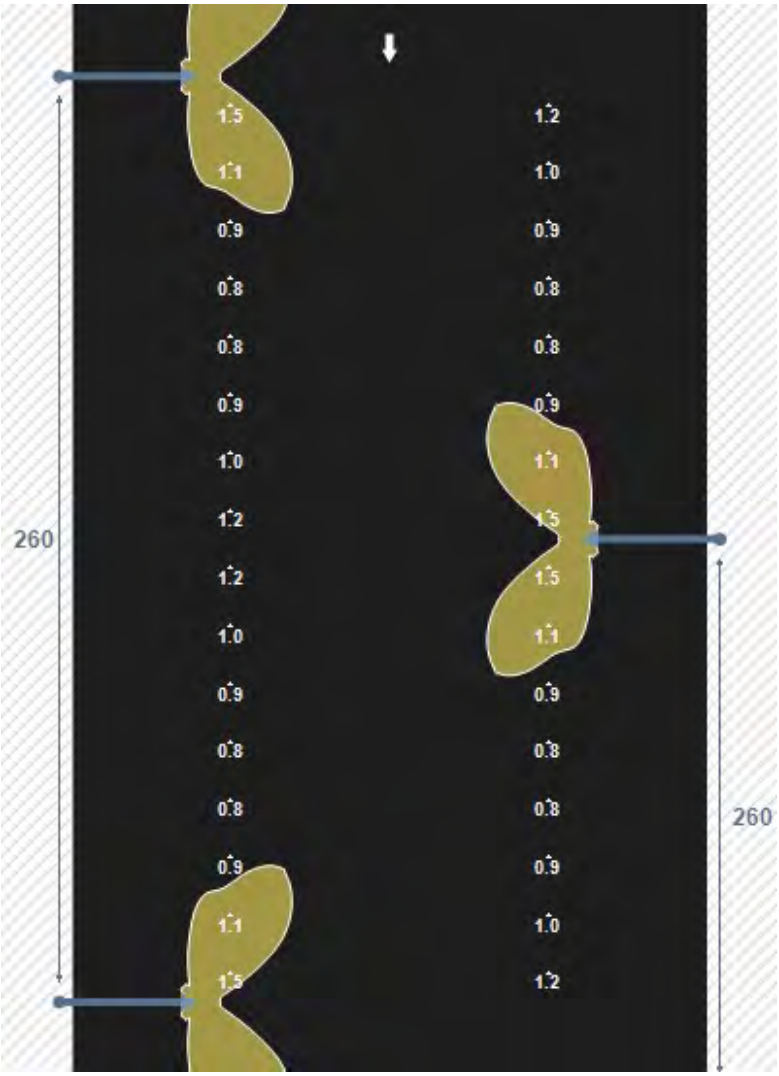

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

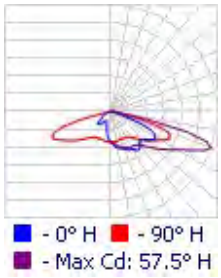
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

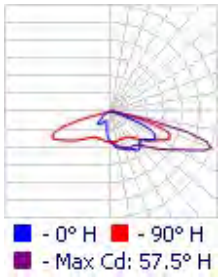
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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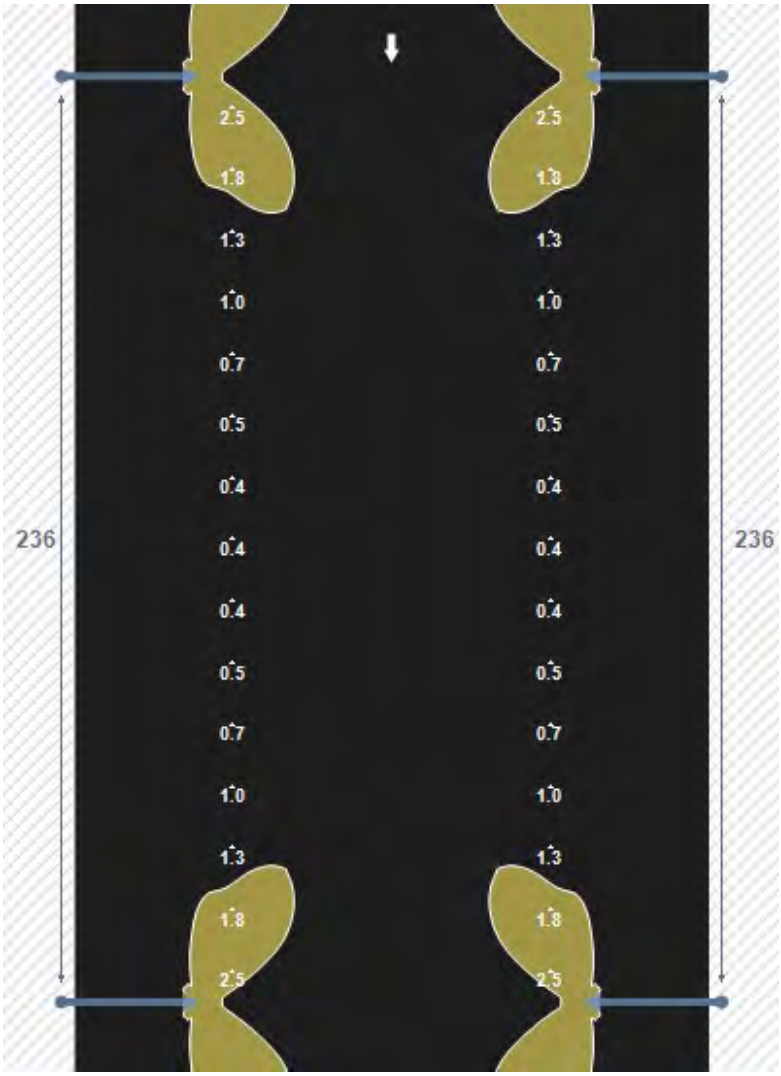

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

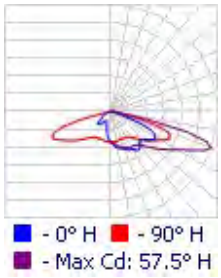
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	154.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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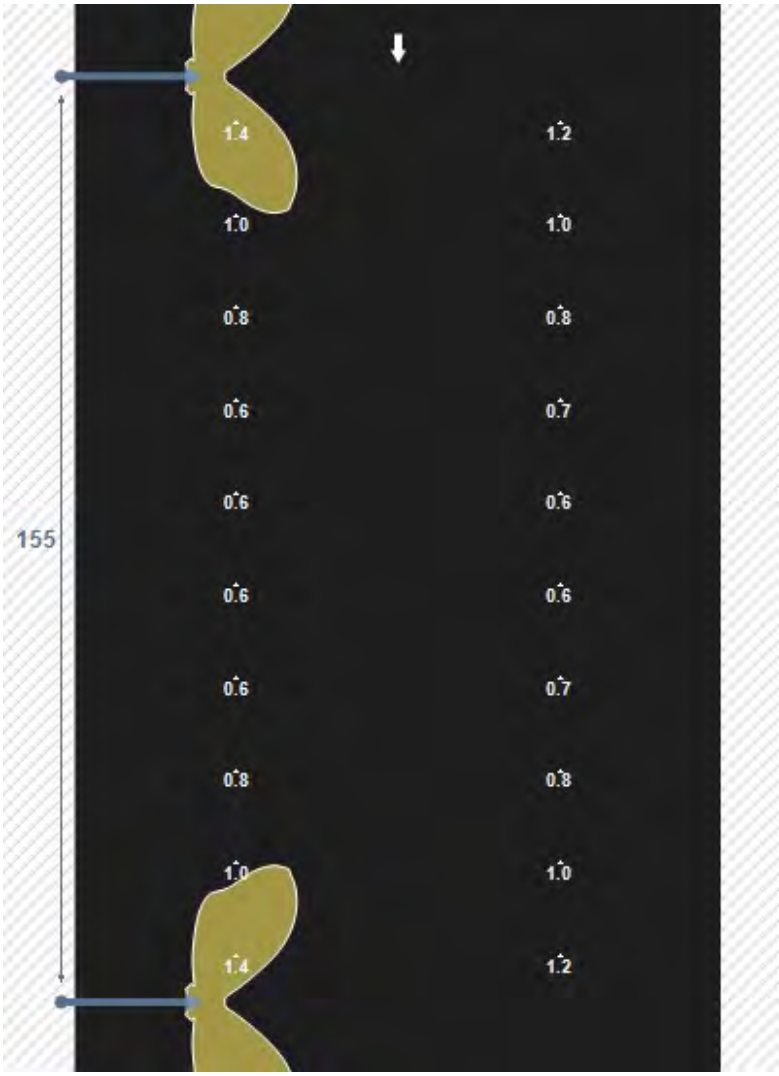

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

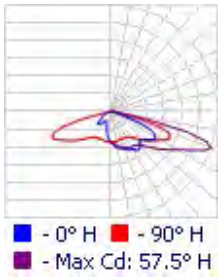
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

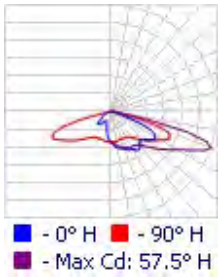
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	301.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	301.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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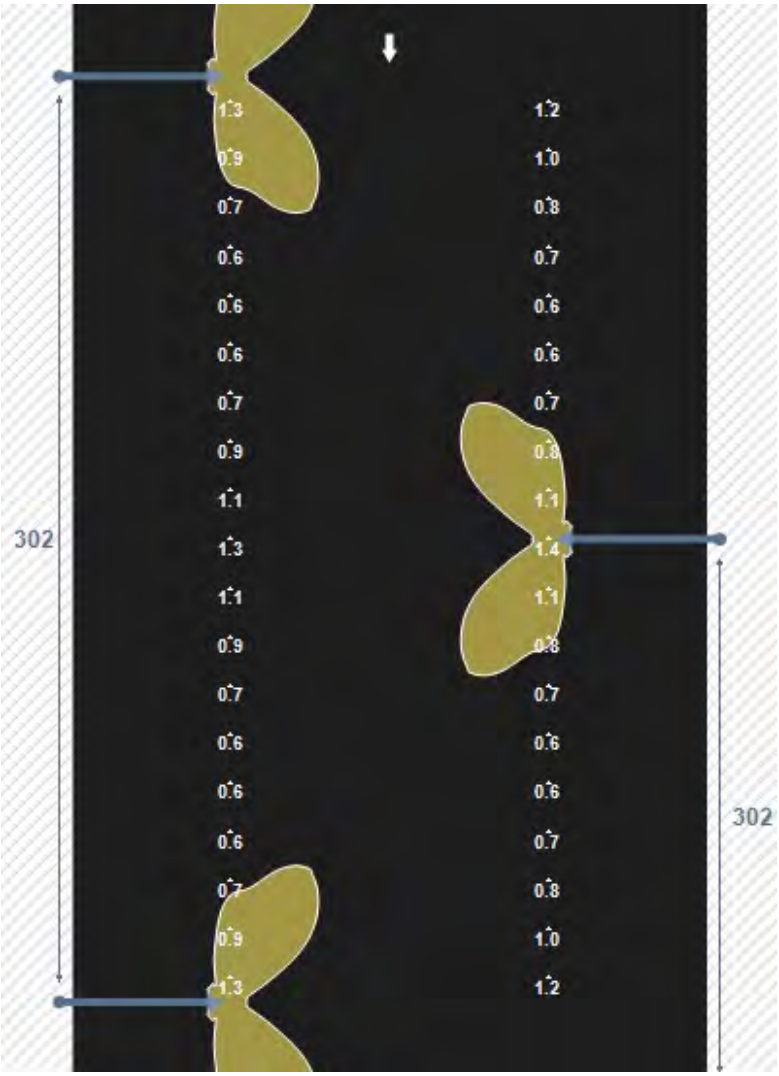

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

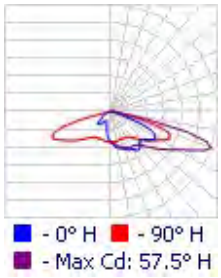
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	150.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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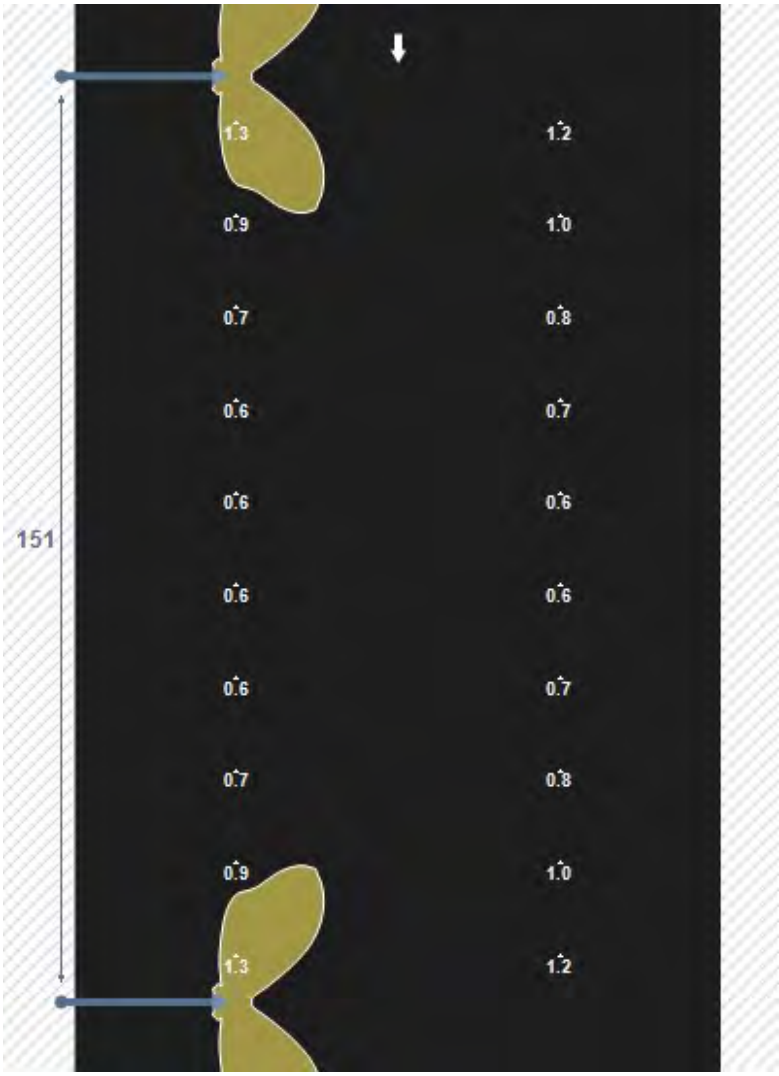

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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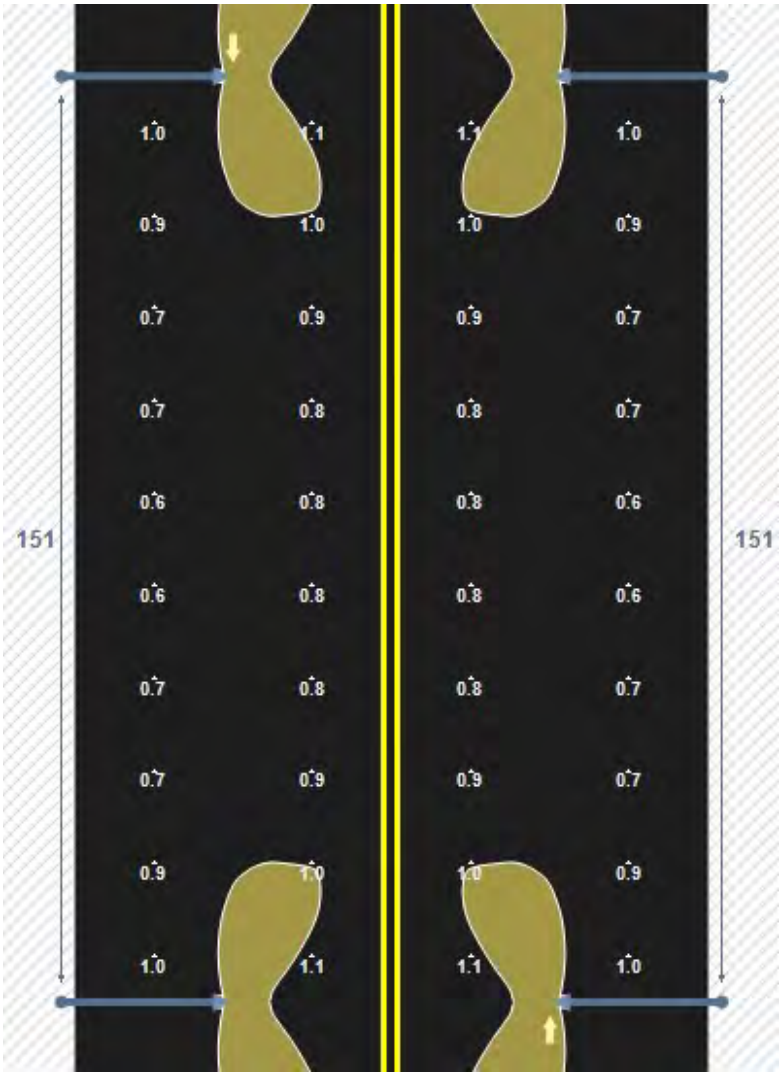

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

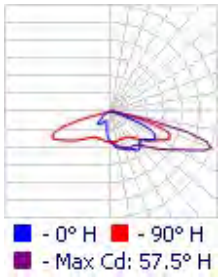
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

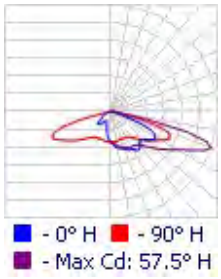
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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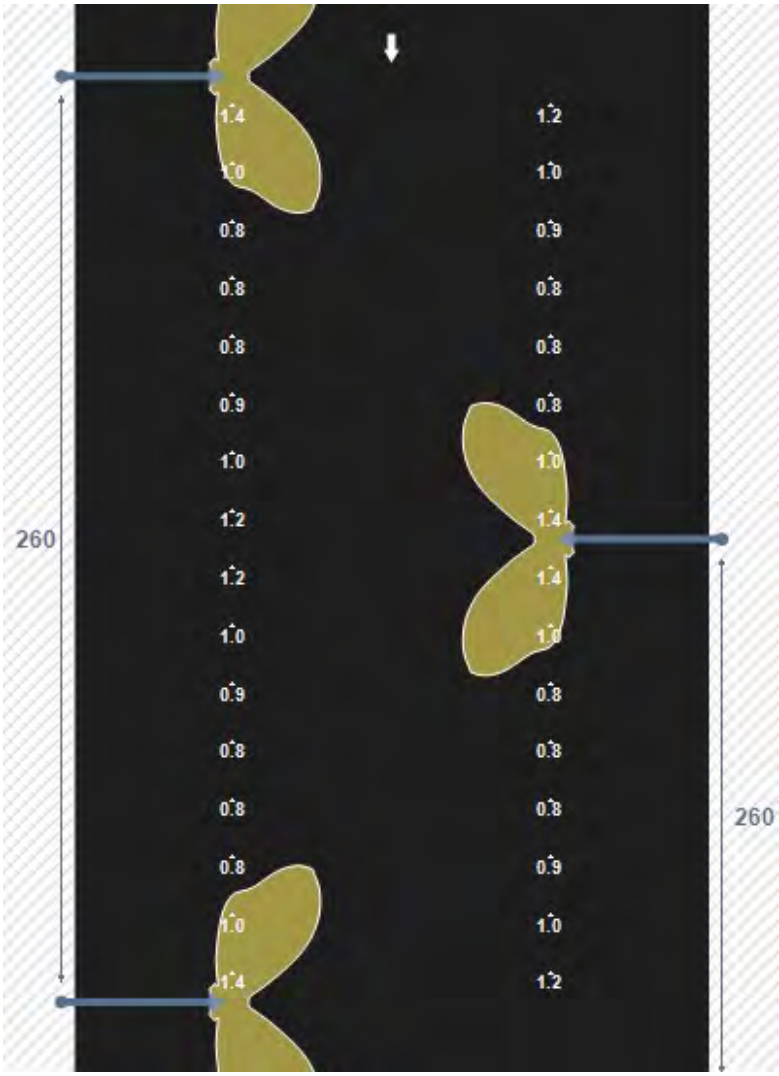

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
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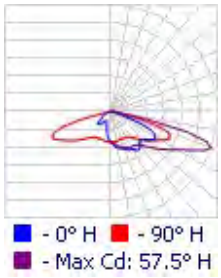
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

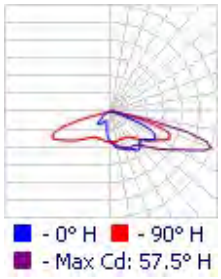
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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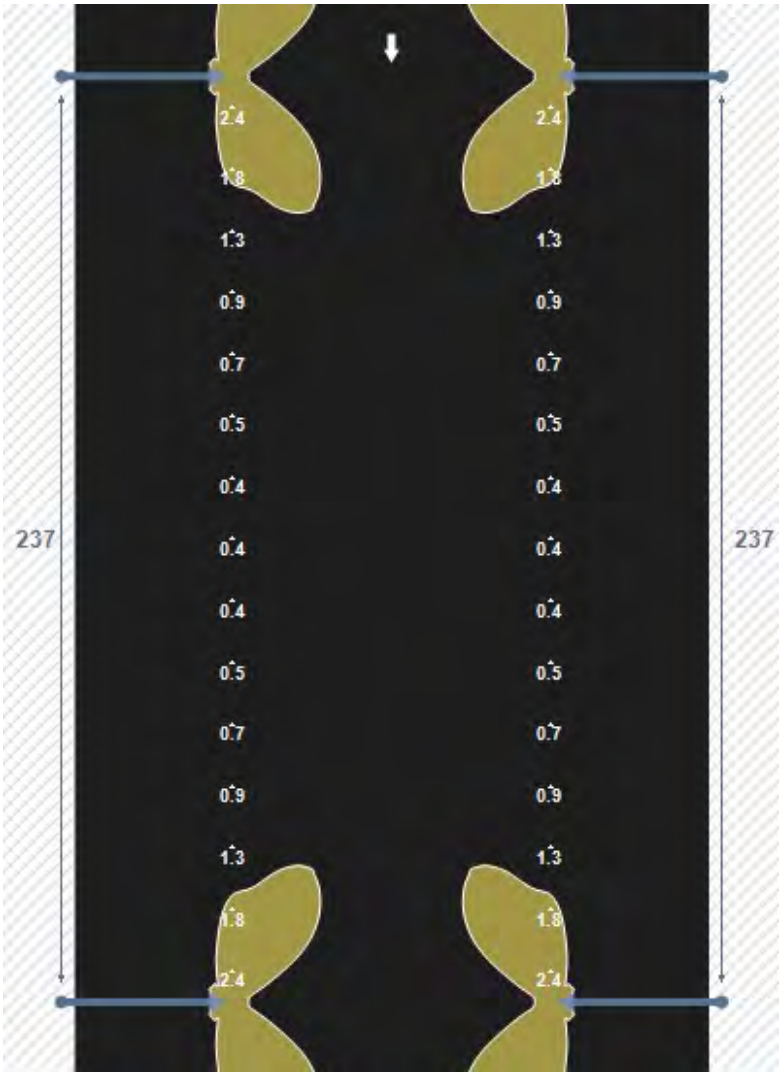

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.4	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

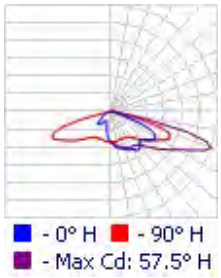
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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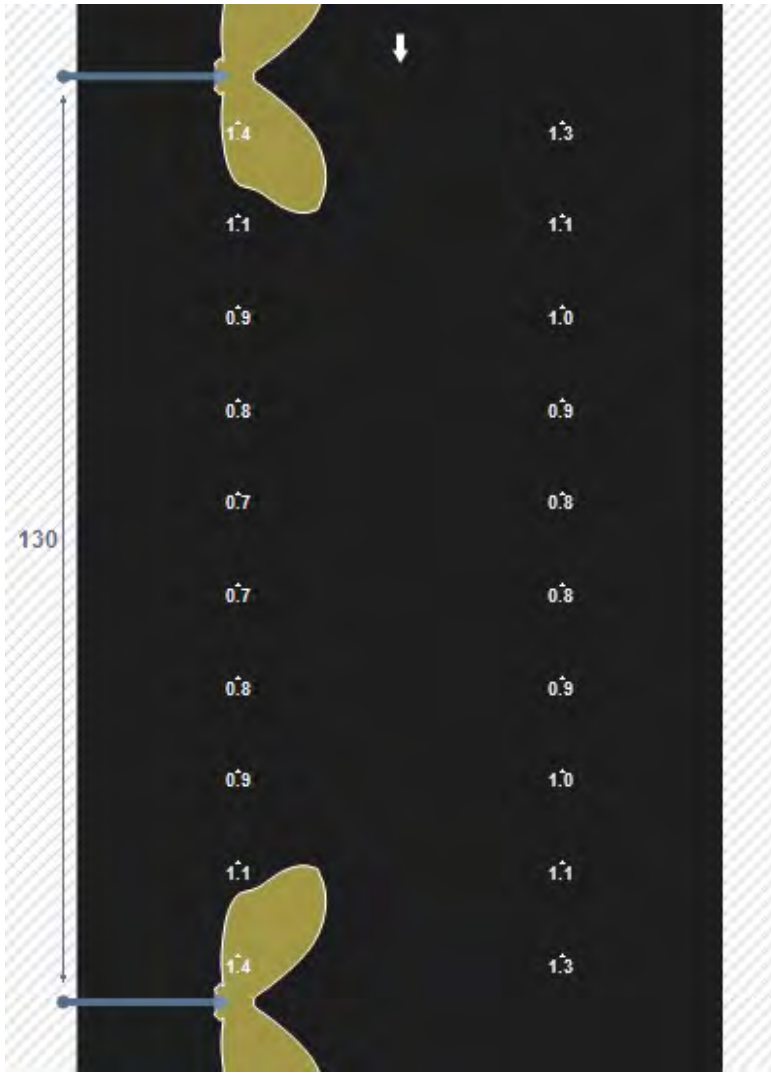

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

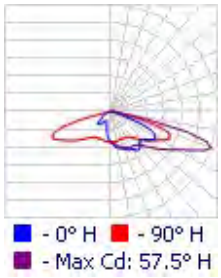
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

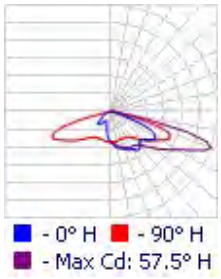
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	296.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	296.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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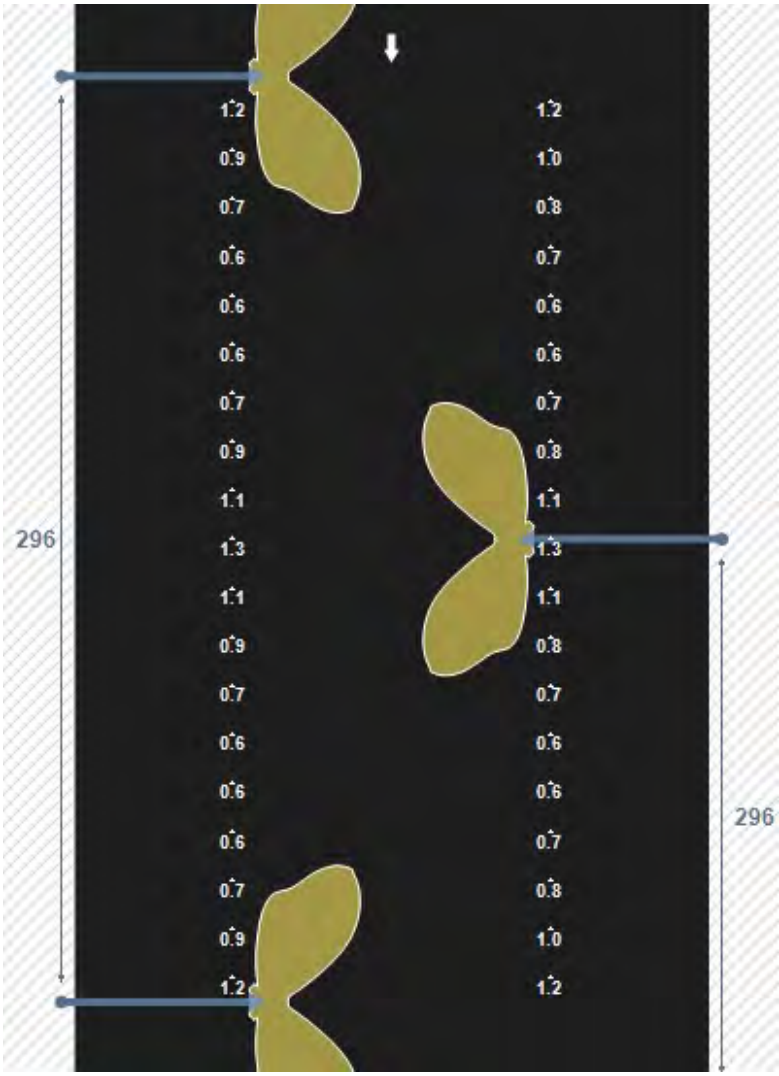

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	147.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	147.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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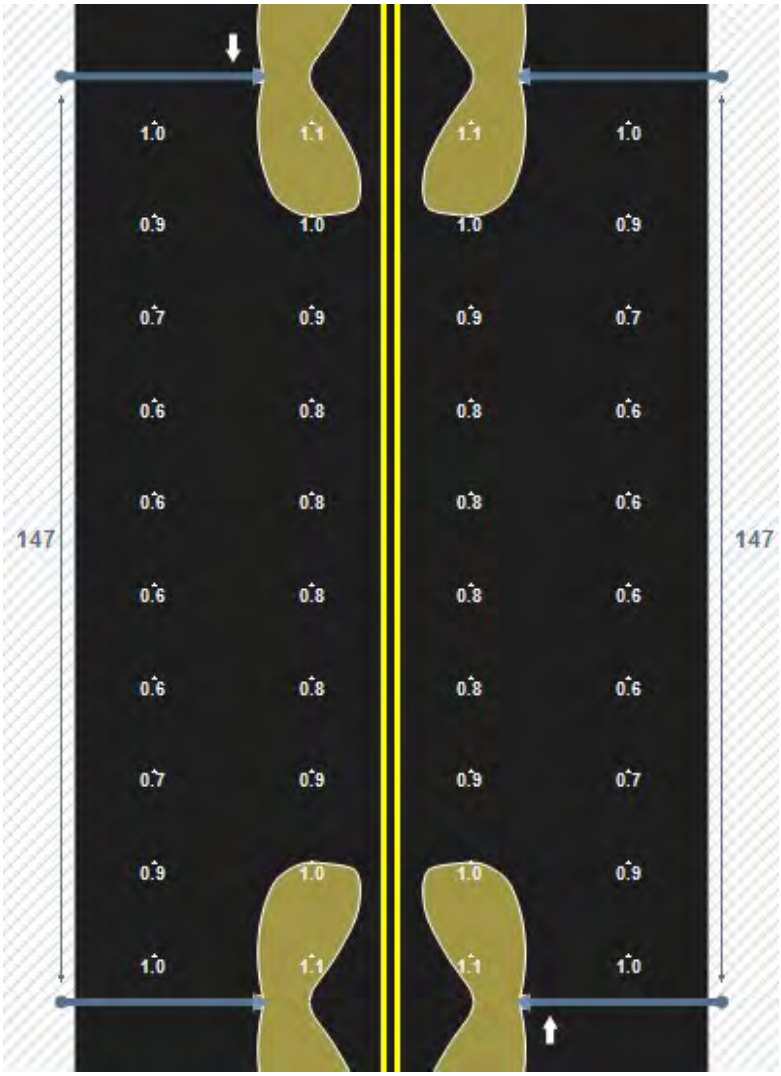

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

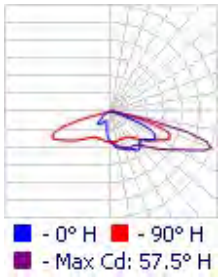
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	148.38 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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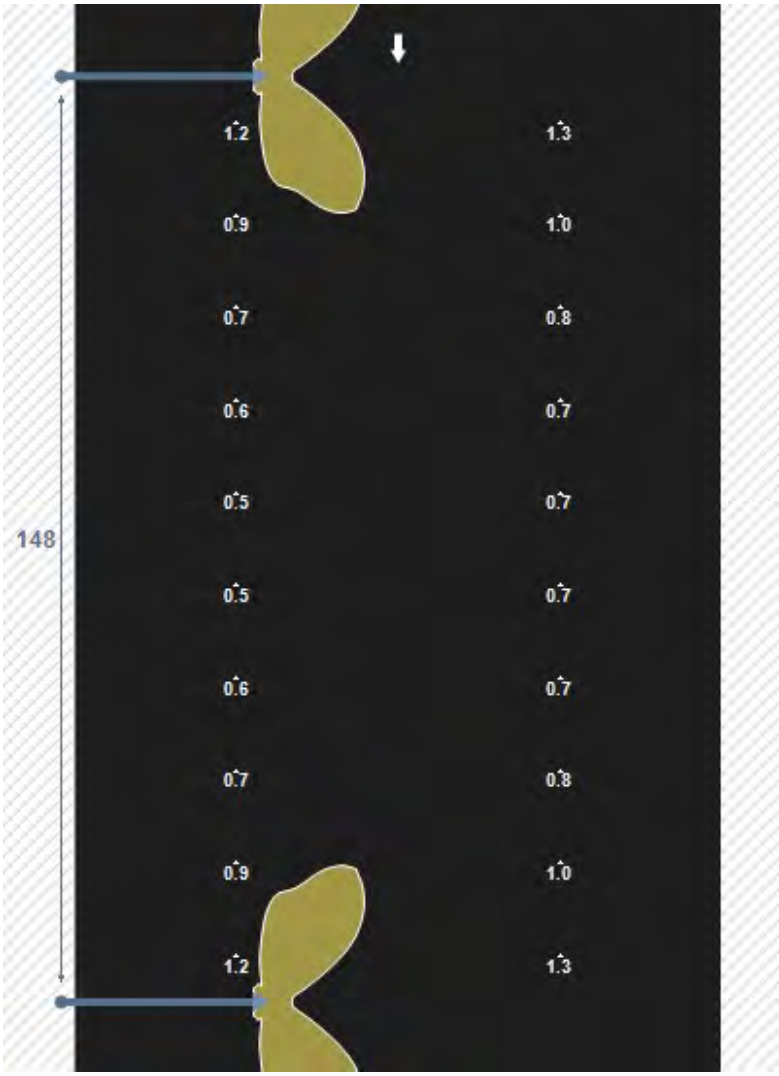

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

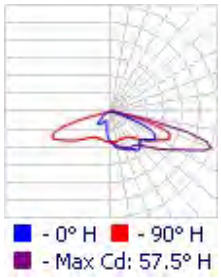
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

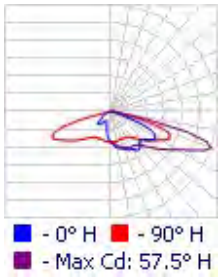
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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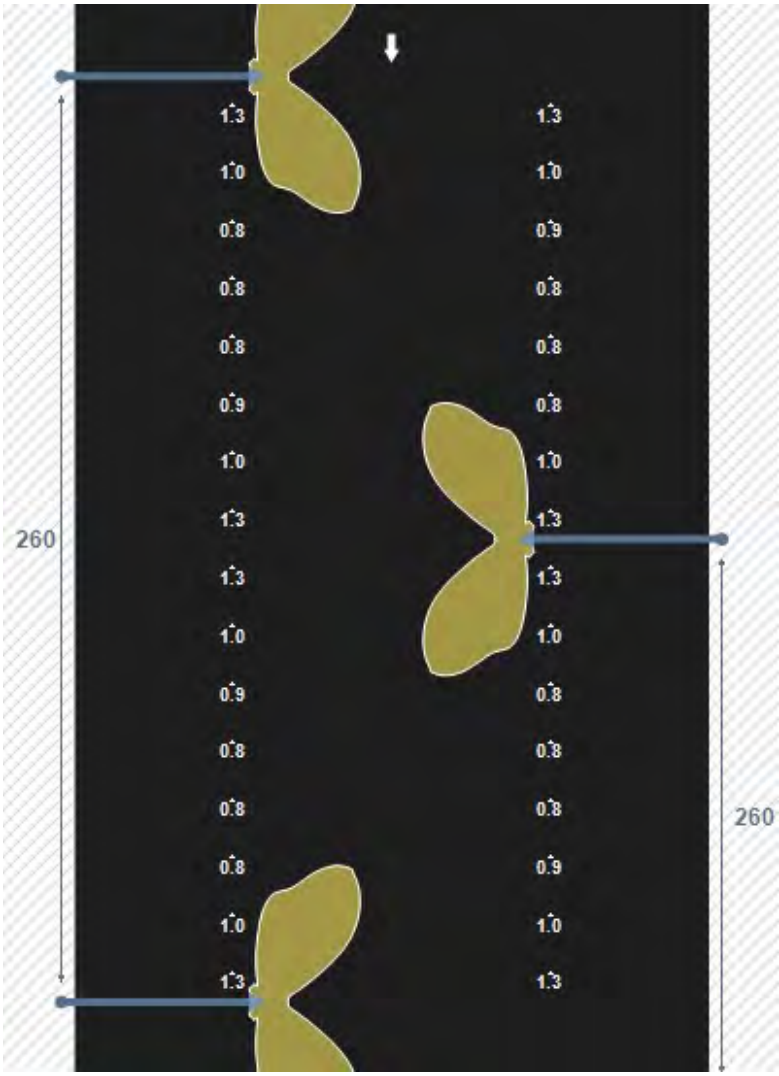

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.3	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

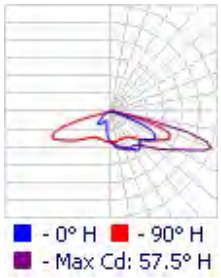
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

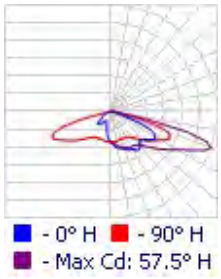
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	234 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	234 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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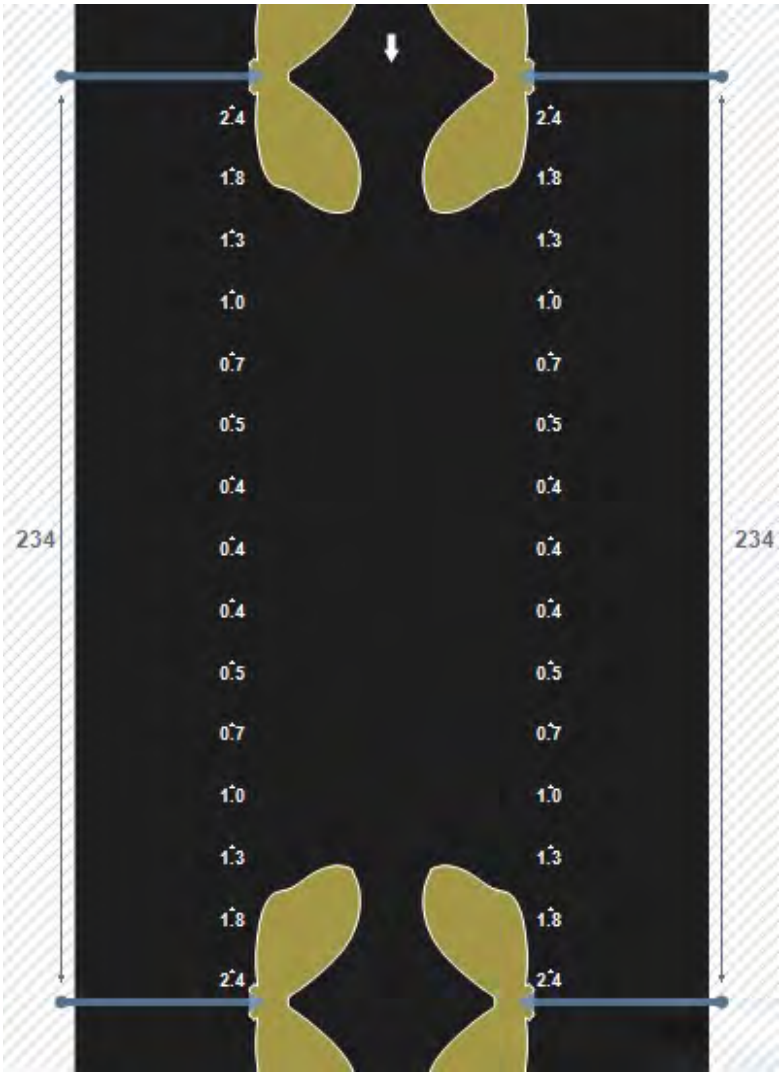

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.1	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.4	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

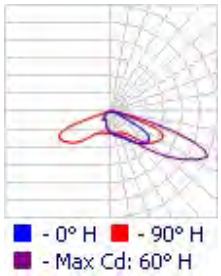
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

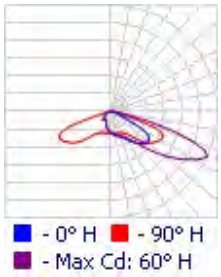
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	225.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	225.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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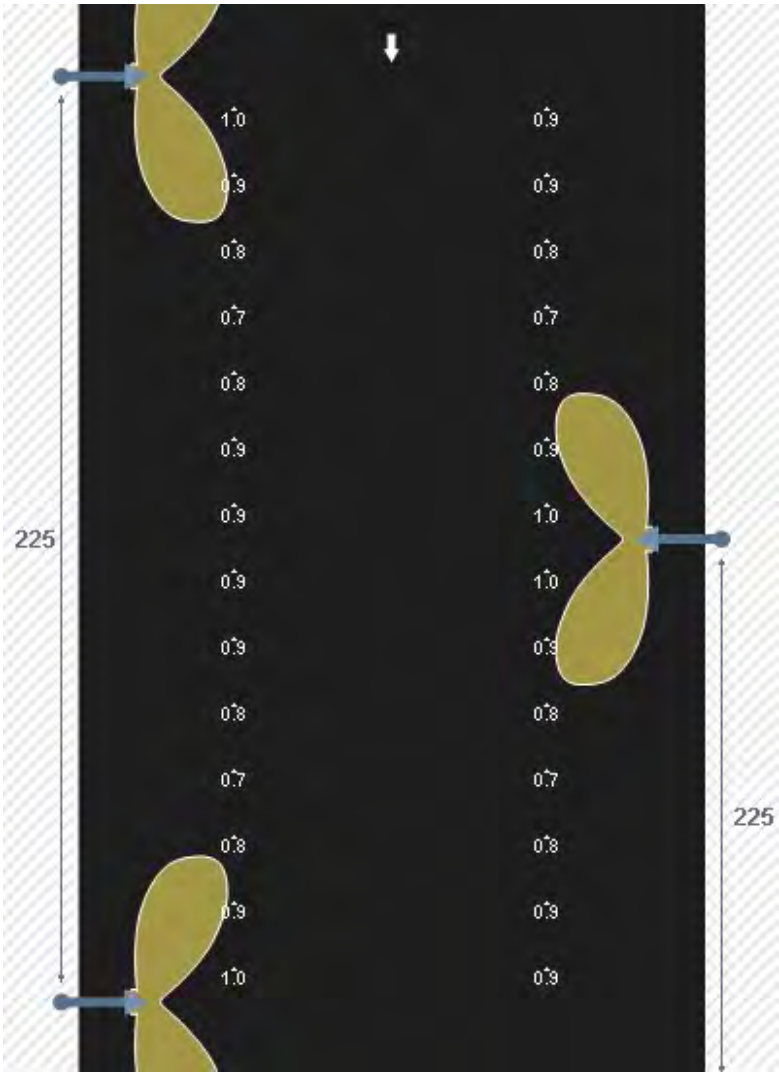

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	2.1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

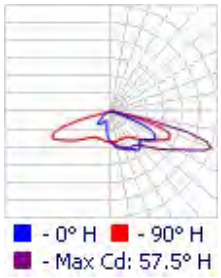
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

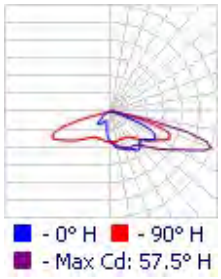
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	160 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	160 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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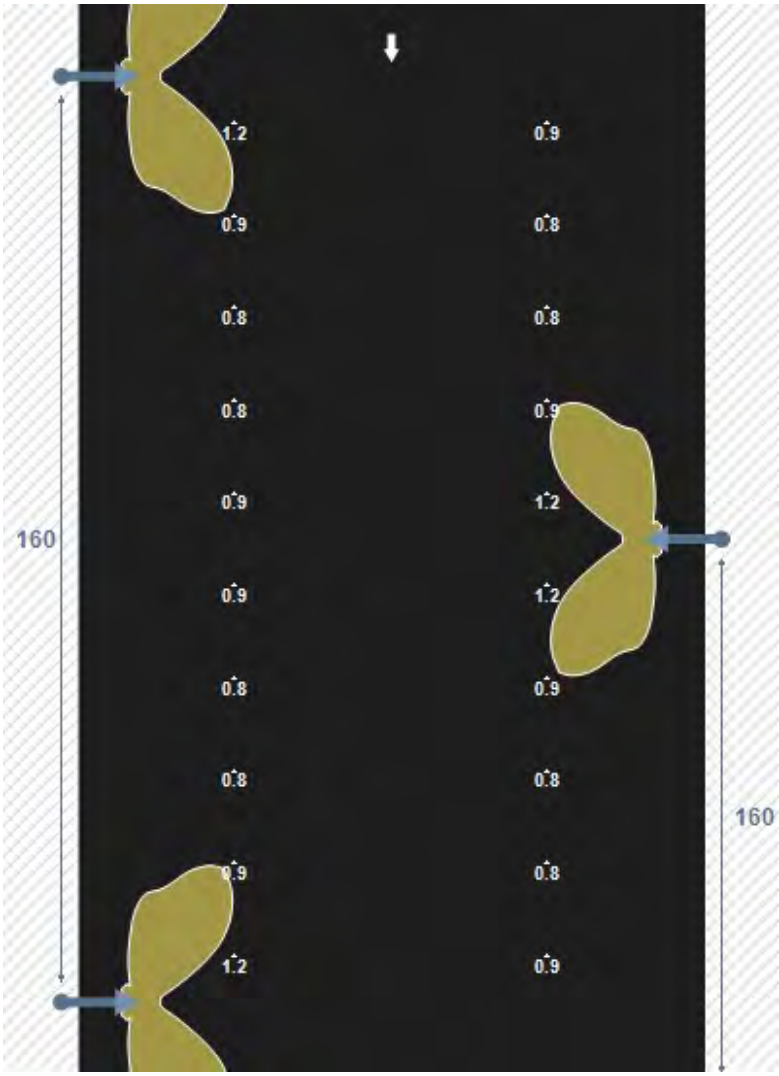

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.2	--	fc
Min	0.8	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

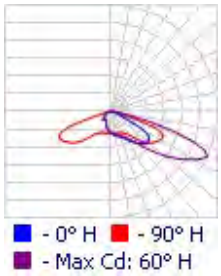
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	80 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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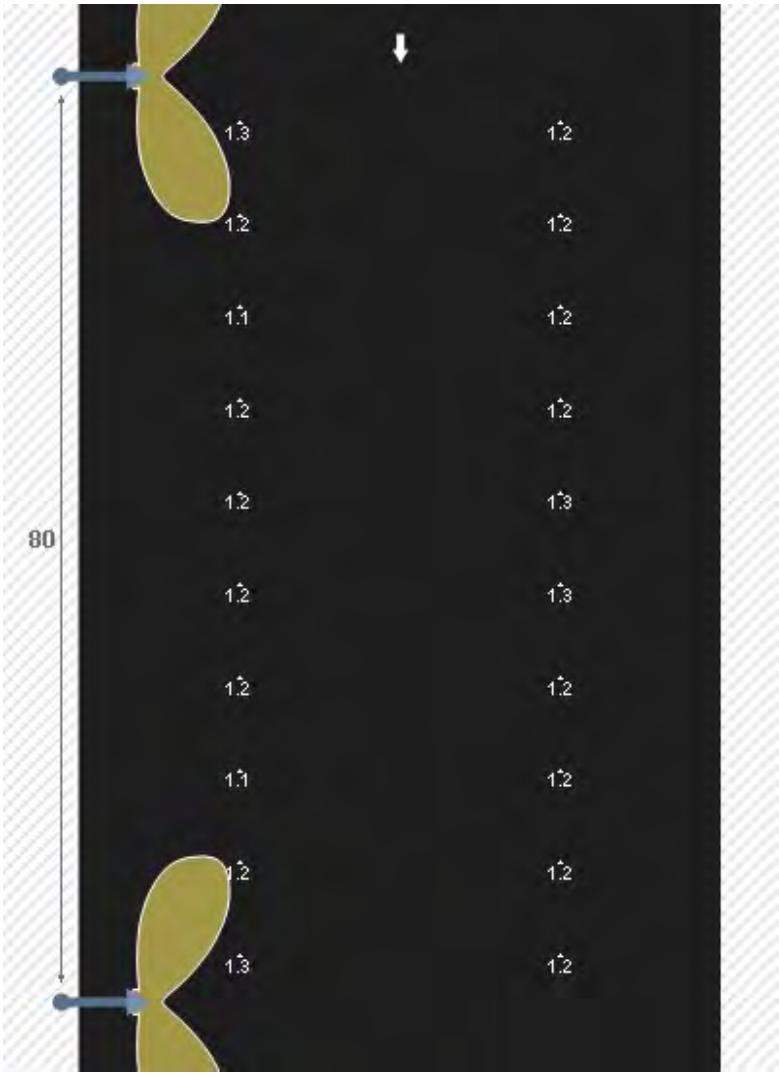

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.3	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

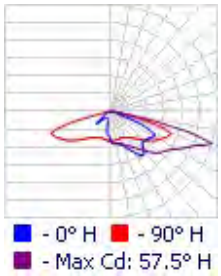
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

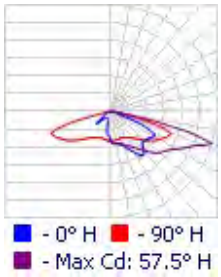
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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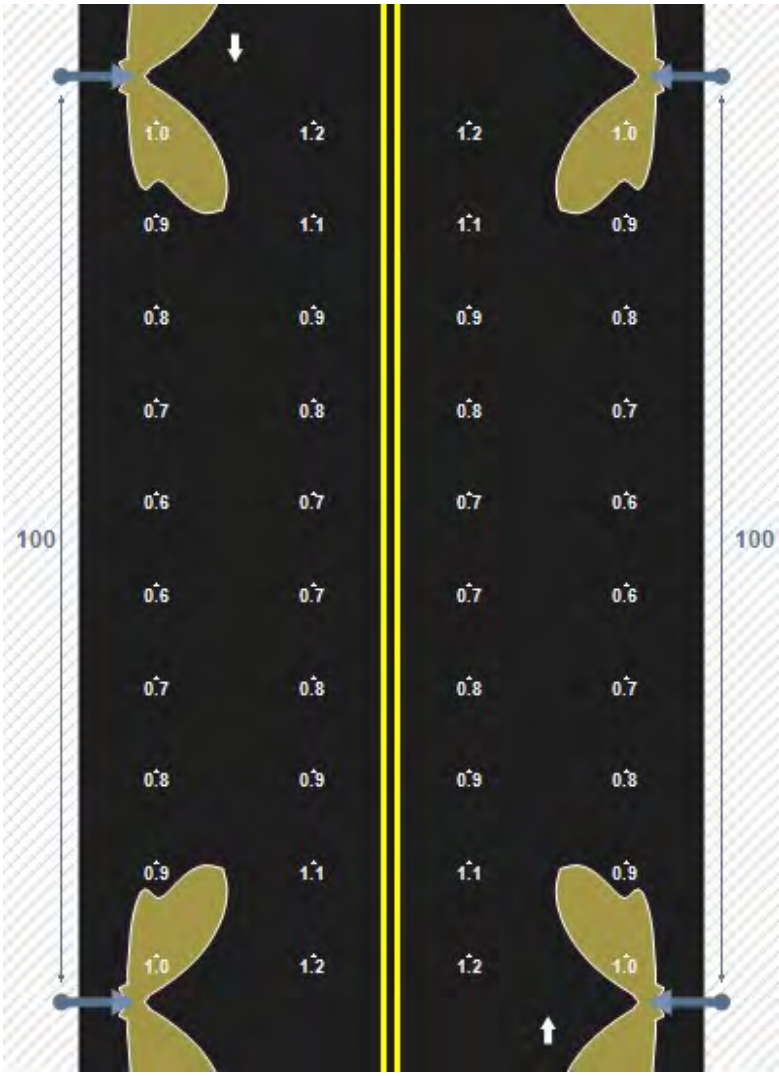

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.7	0.7	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.2	1.2	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	2	2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

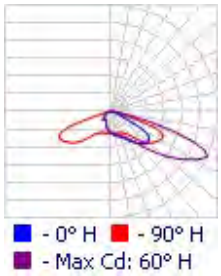
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

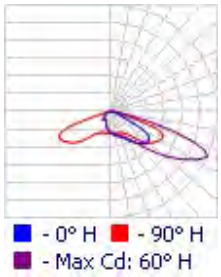
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	173.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	173.49 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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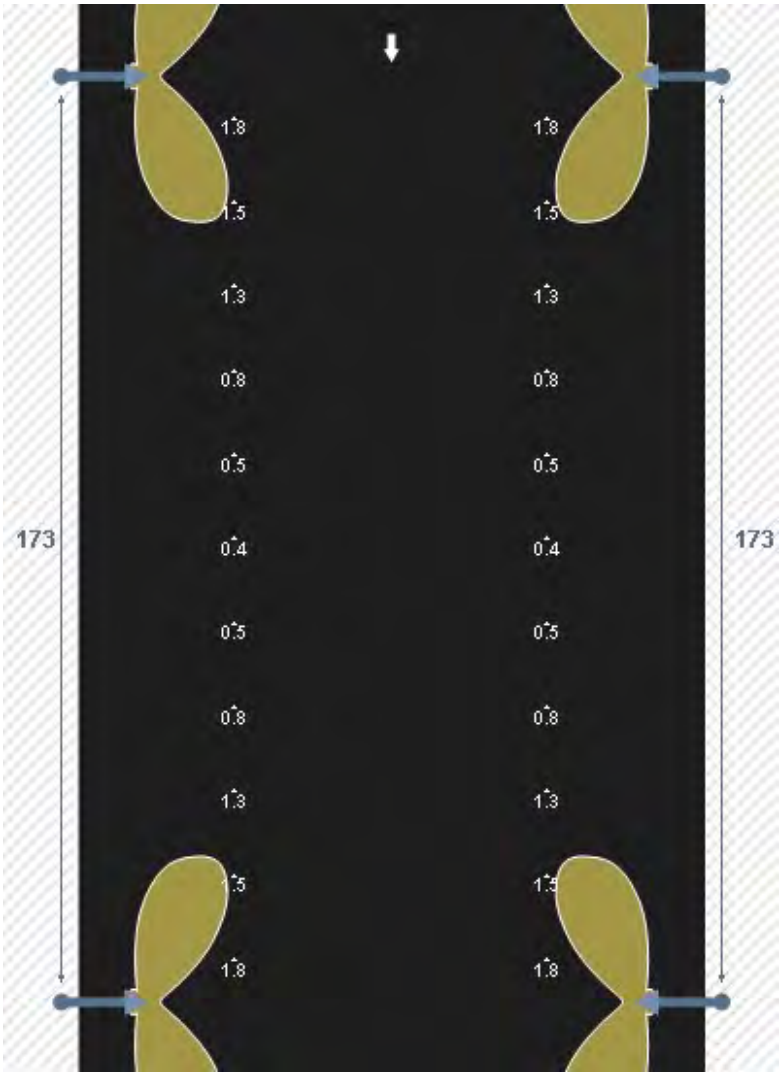

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.5	--	
Lv Ratio:	0.2	--	
STV:	4.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.8	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	4.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

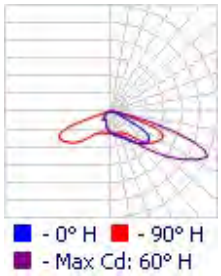
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	112.59 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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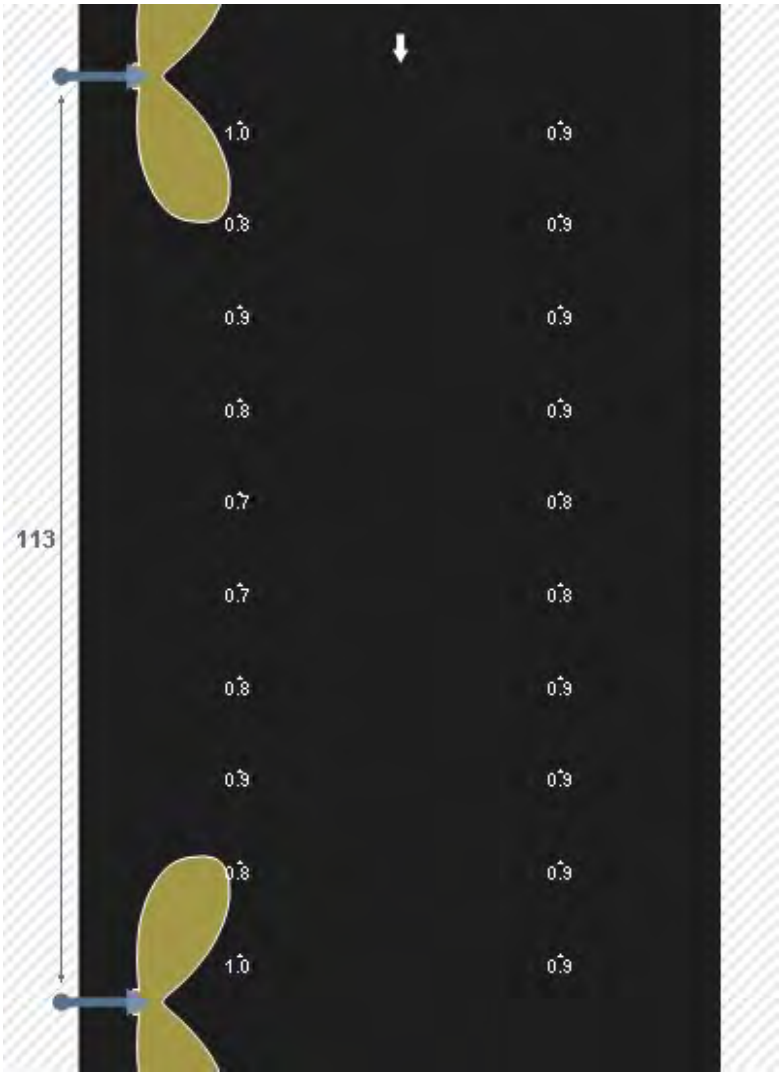

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.4	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	2.2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

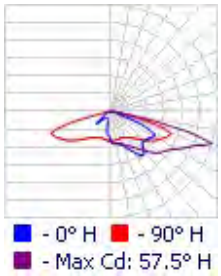
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

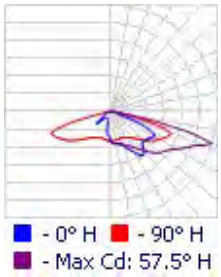
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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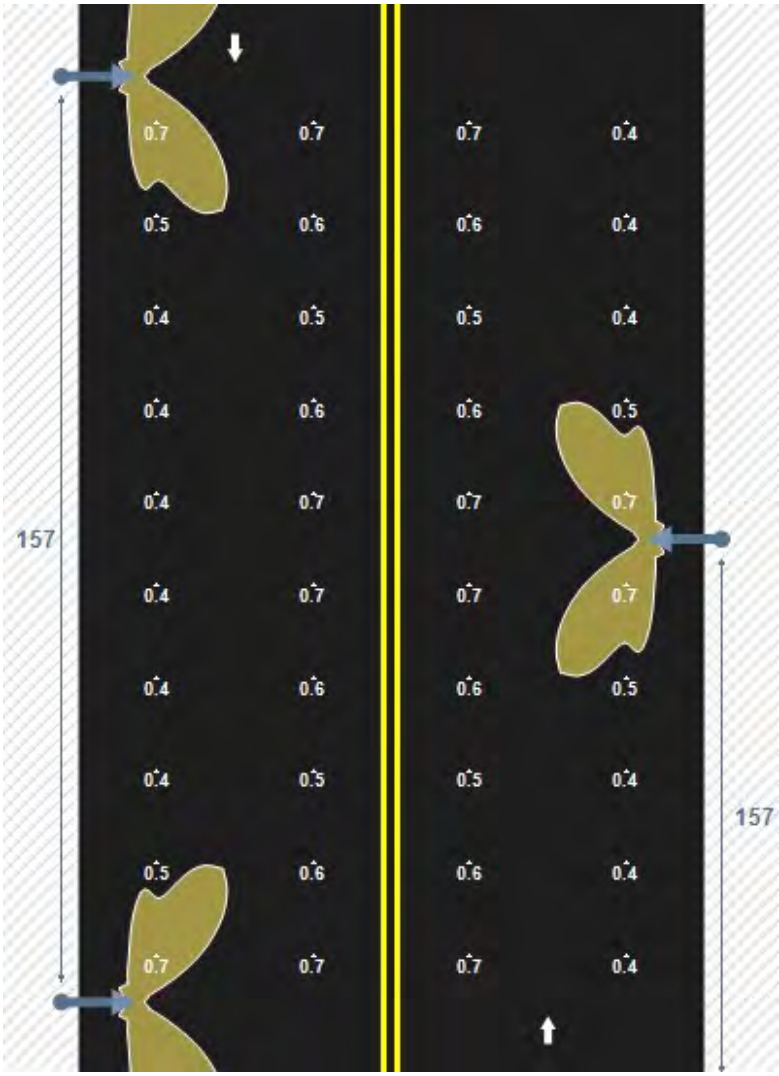
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

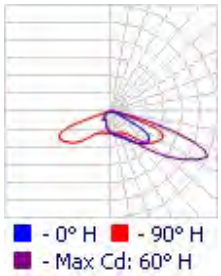
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

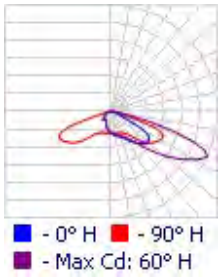
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	223.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	223.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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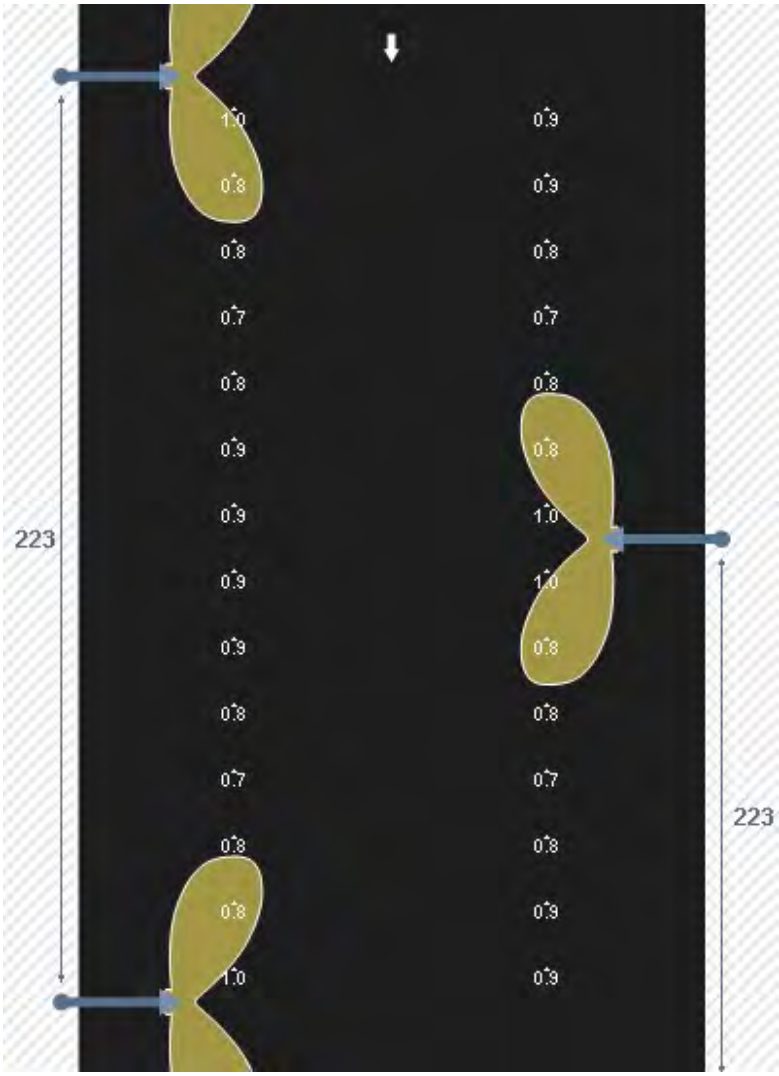

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

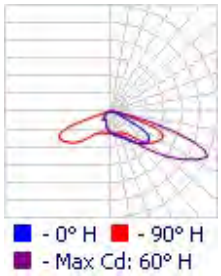
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

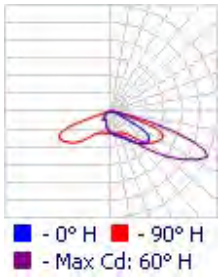
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	170 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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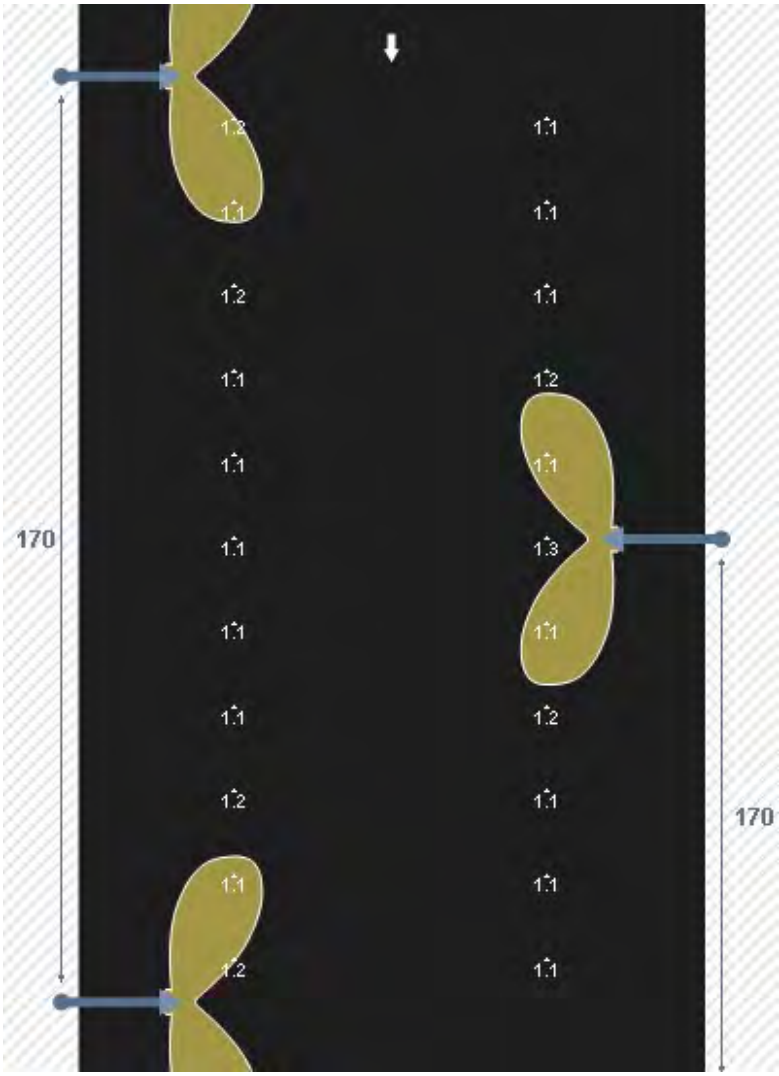

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.3	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

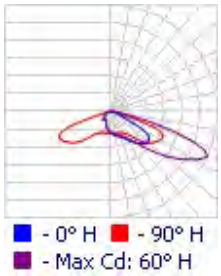
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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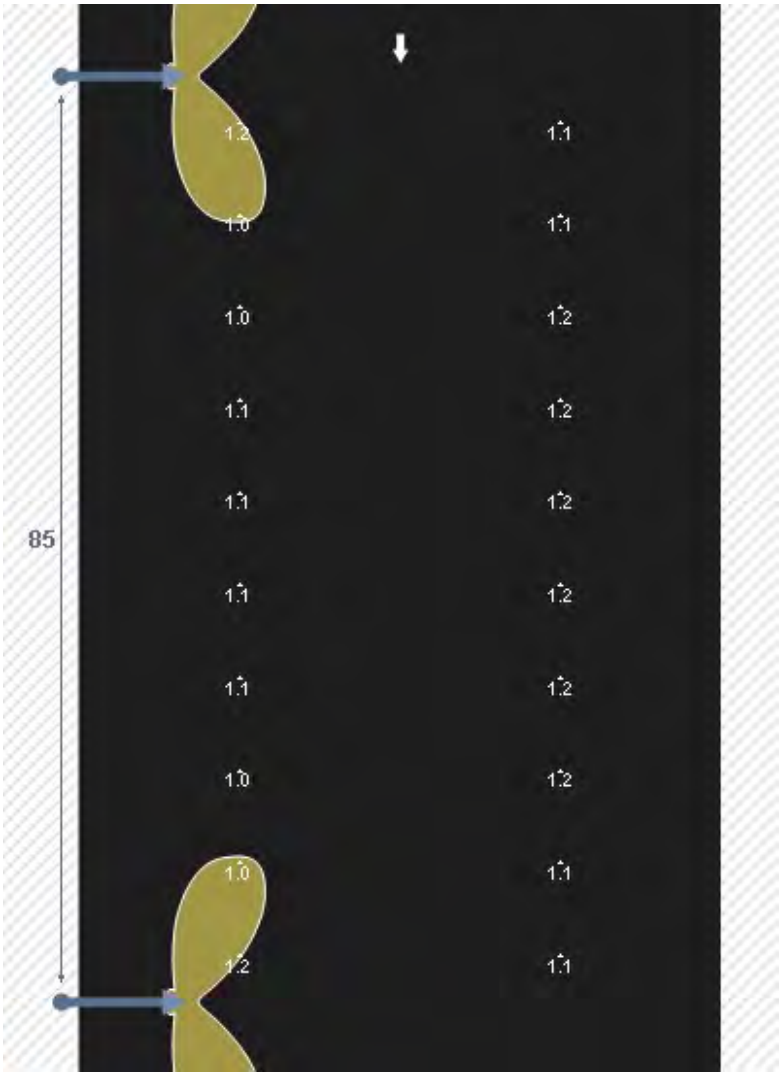

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.2	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

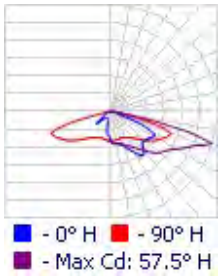
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

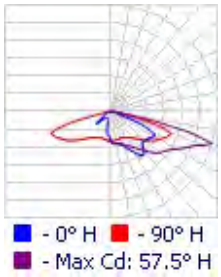
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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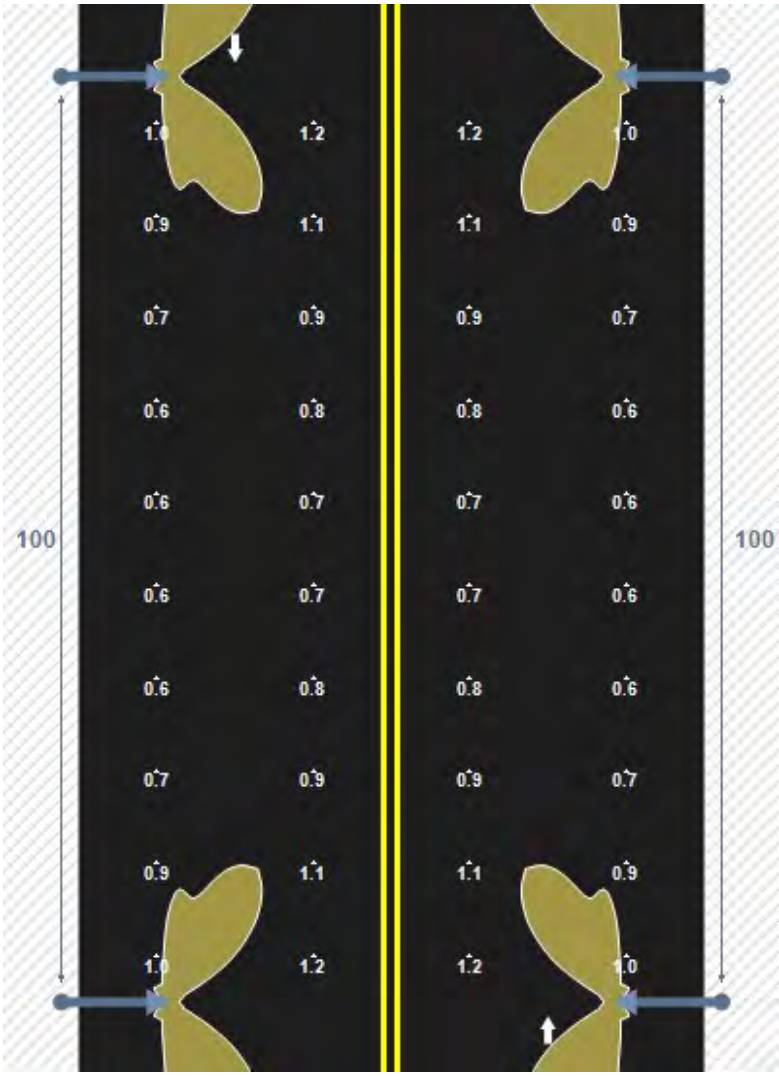
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.3	1.3	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

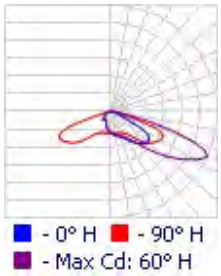
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

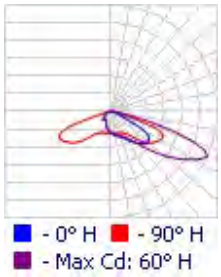
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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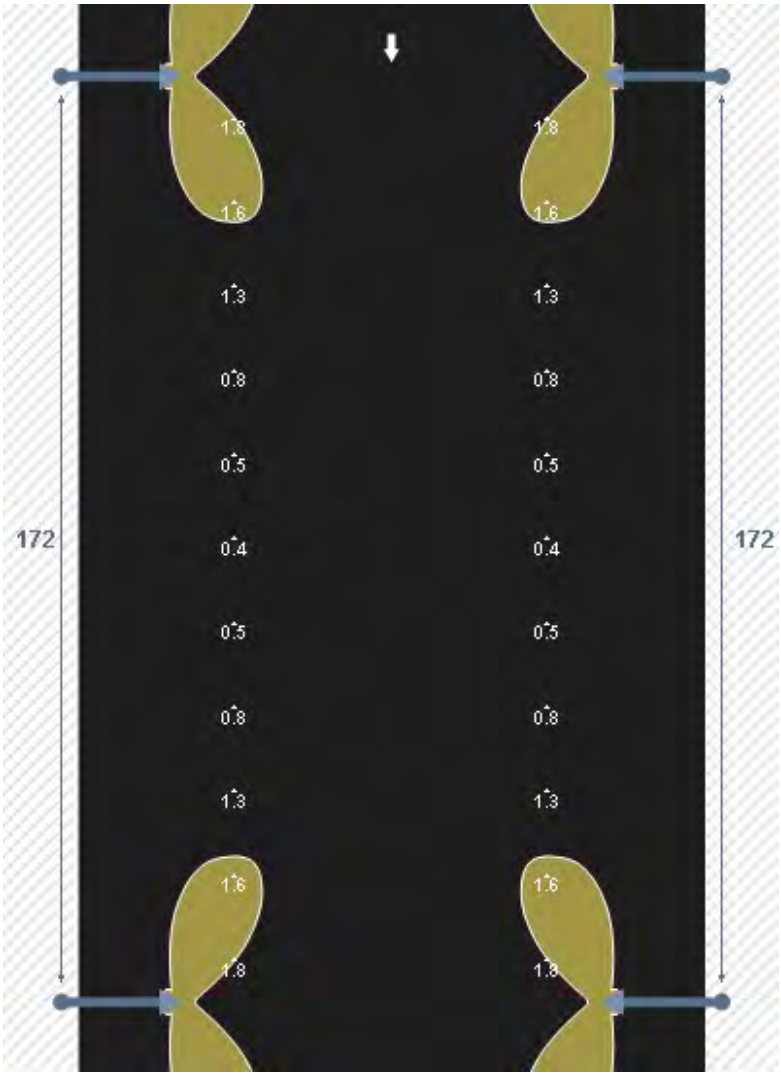

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.4	--	
Lv Ratio:	0.2	--	
STV:	4.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.8	--	fc
Min	0.4	--	fc
Ave/Min:	2.9	--	
Max/Min:	4.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

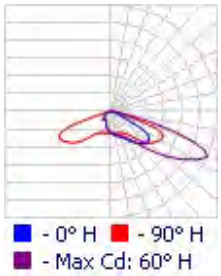
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	111.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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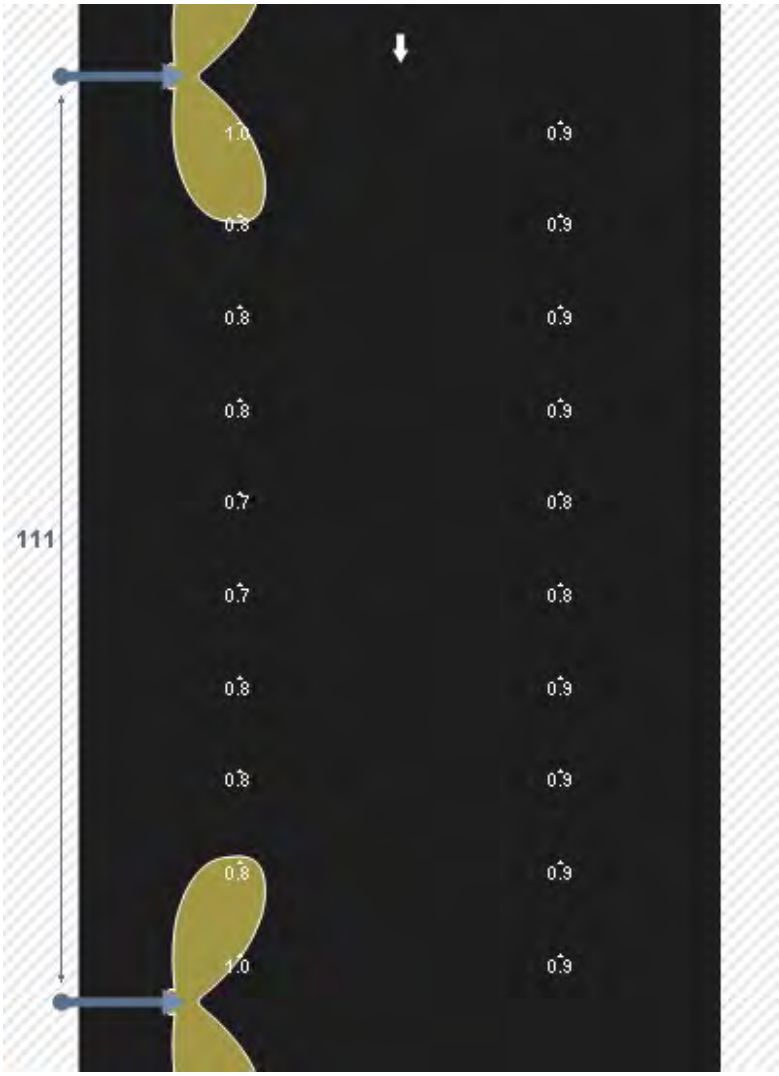

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	2.1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

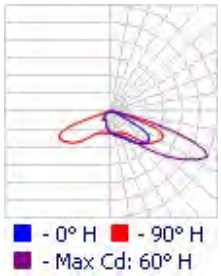
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

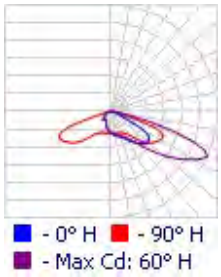
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	218.87 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	218.87 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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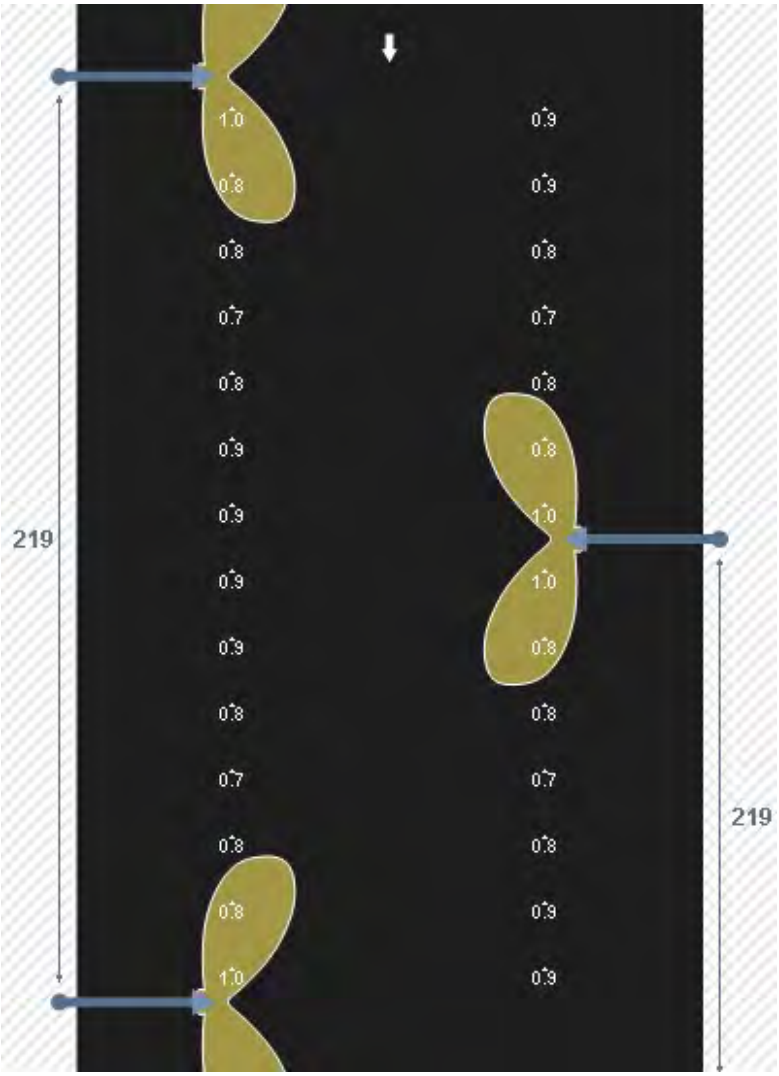

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

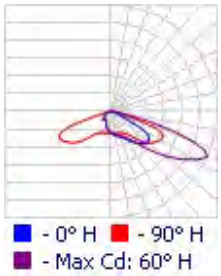
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

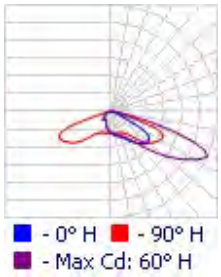
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	180 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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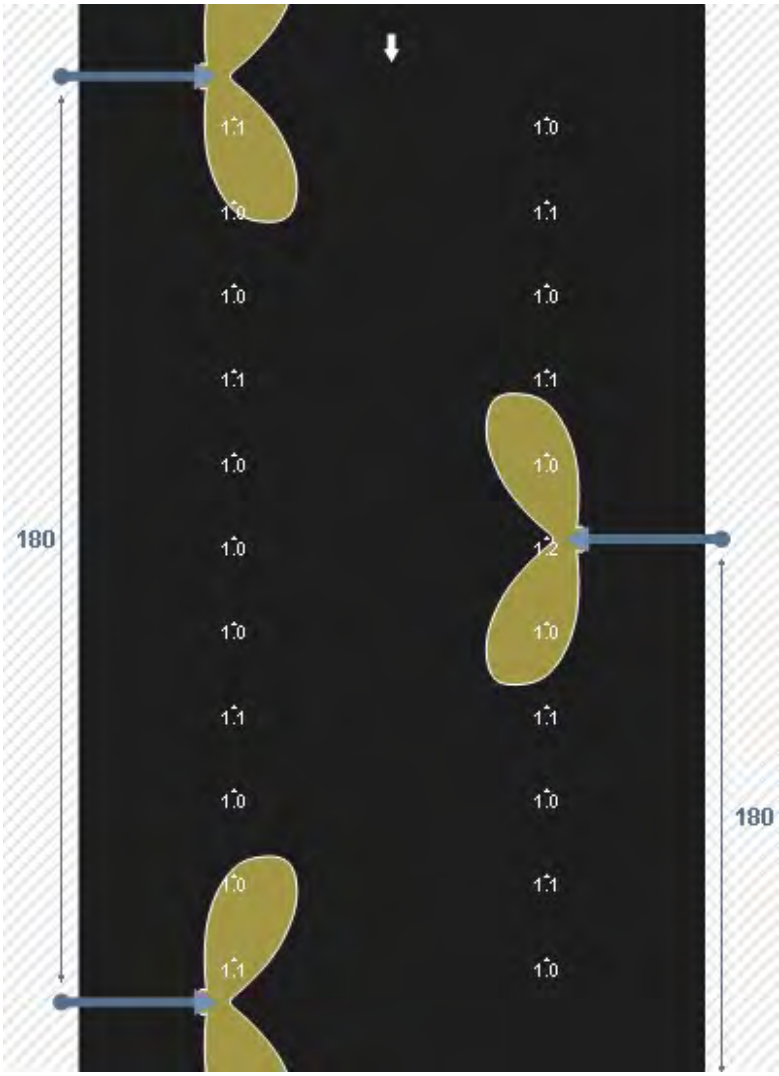

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.2	--	fc
Min	1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

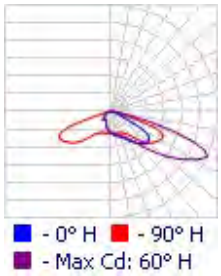
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	90 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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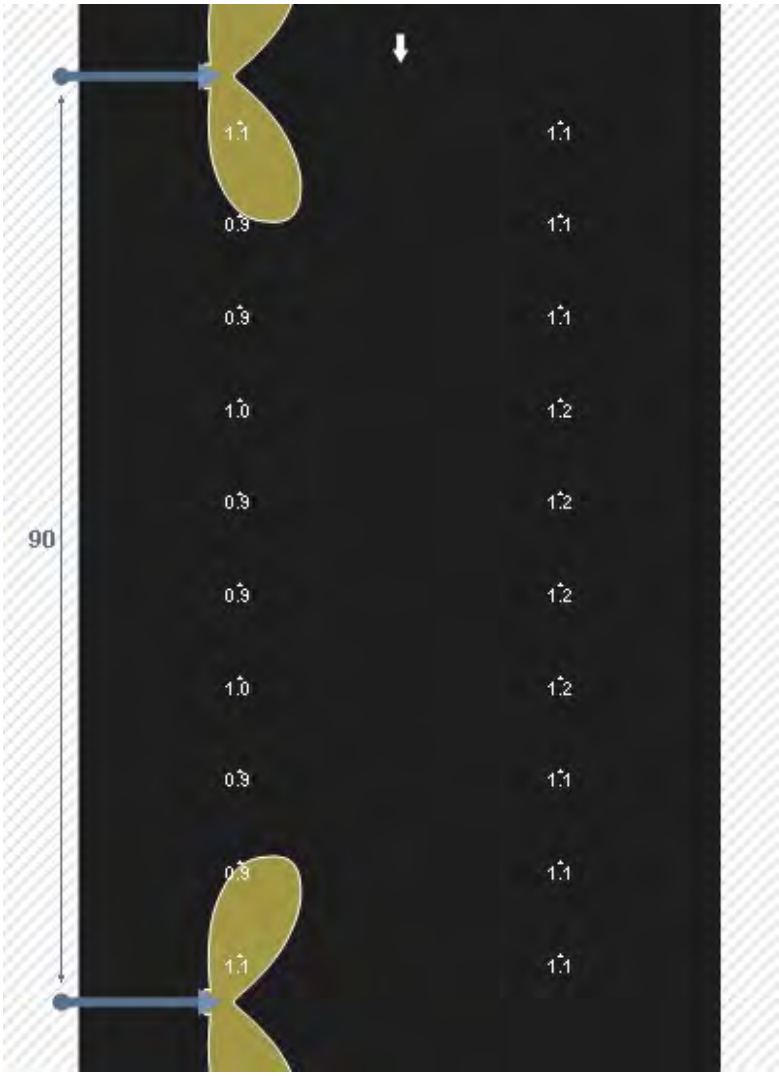

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.2	--	fc
Min	0.9	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

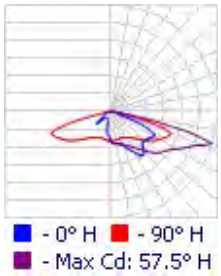
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

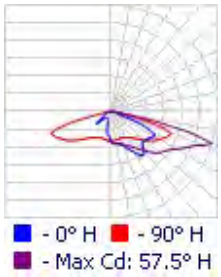
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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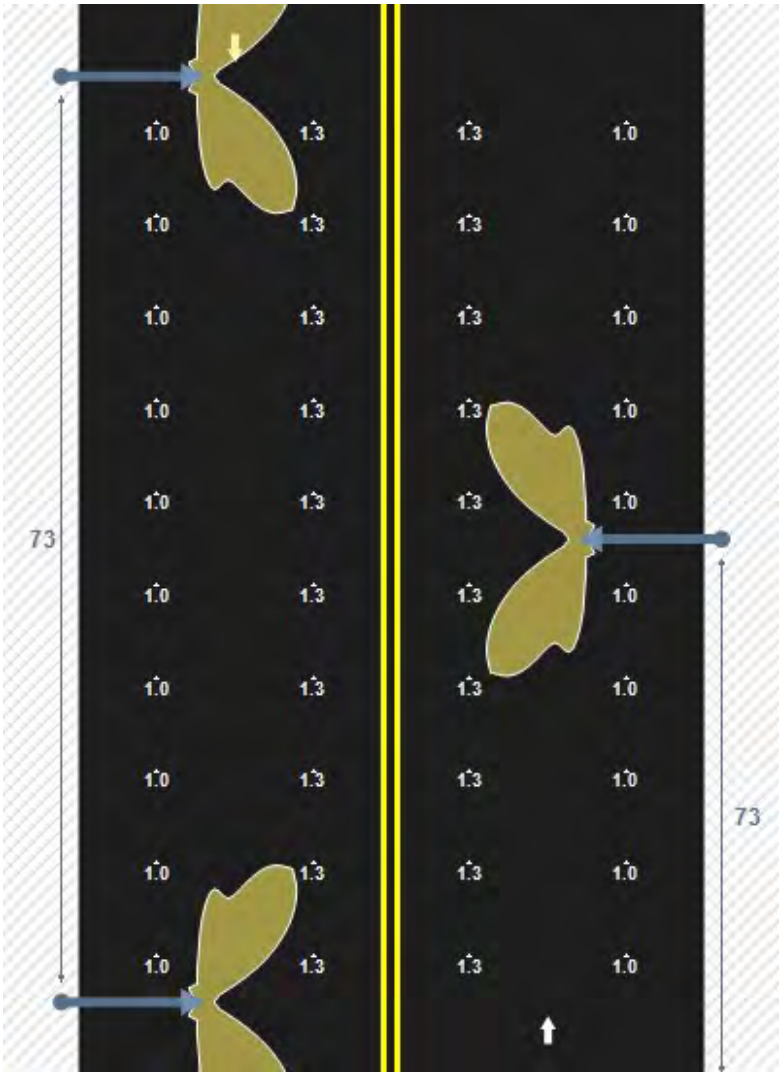

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

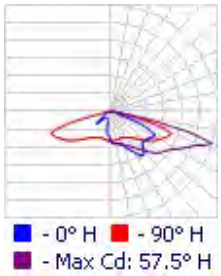
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (22 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

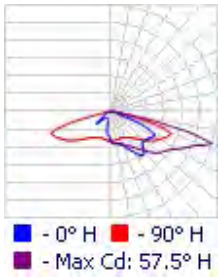
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	99.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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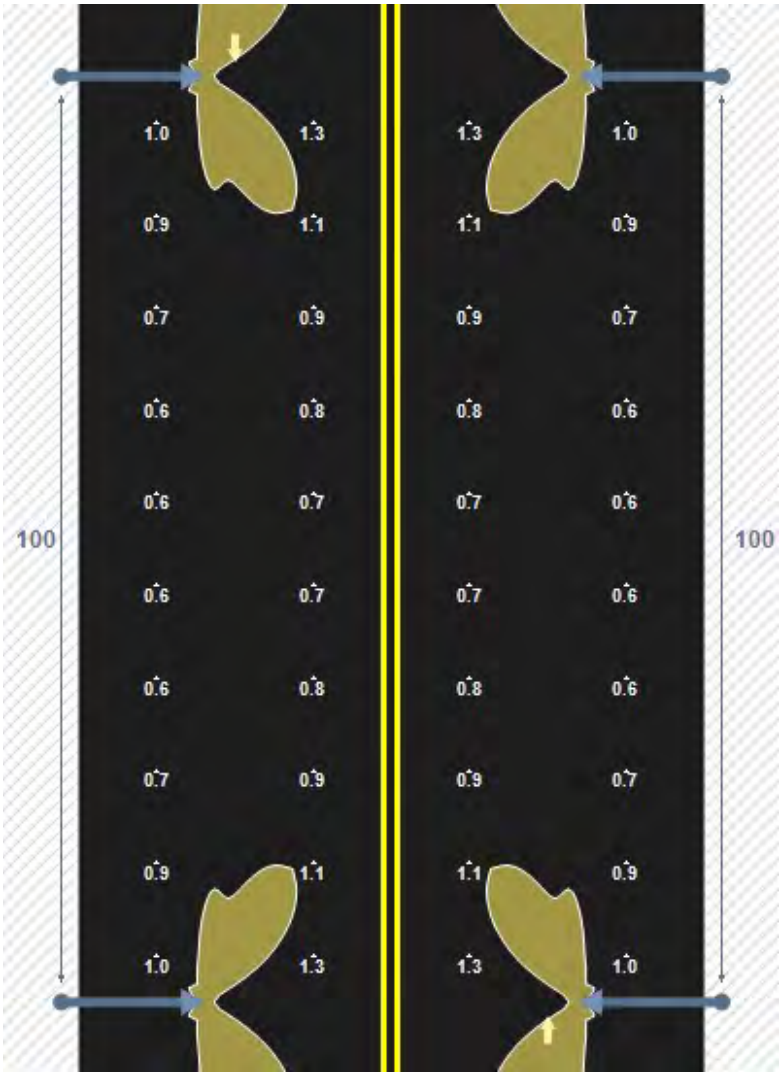

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.8	0.8	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.2	0.2	
STV:	1.4	1.4	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.3	1.3	fc
Min	0.6	0.6	fc
Ave/Min:	1.5	1.5	
Max/Min:	2.1	2.1	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

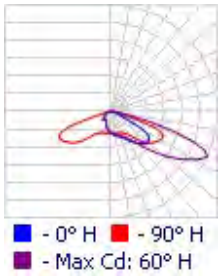
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

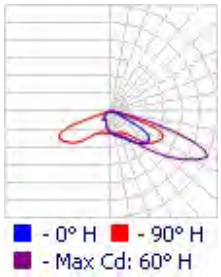
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	172.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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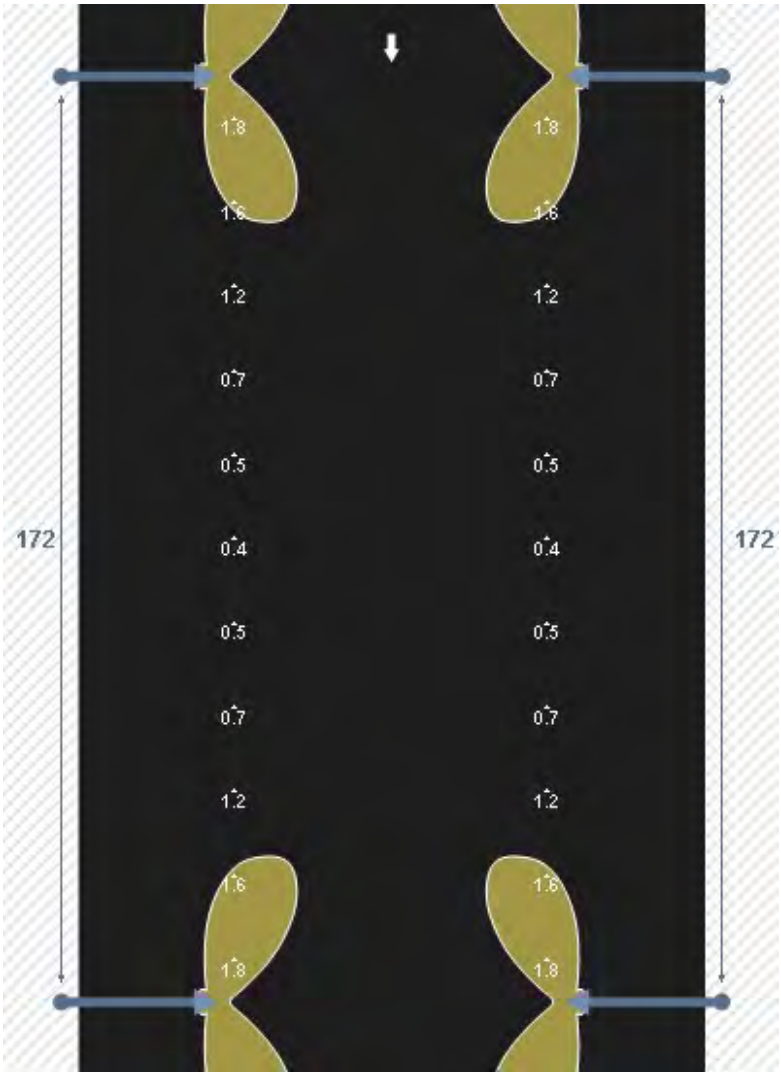
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.6	--	
Lv Ratio:	0.2	--	
STV:	4.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.8	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	5.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

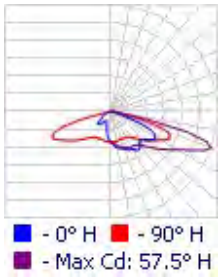
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R3 3K

Cycle Spacing:	83.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5705
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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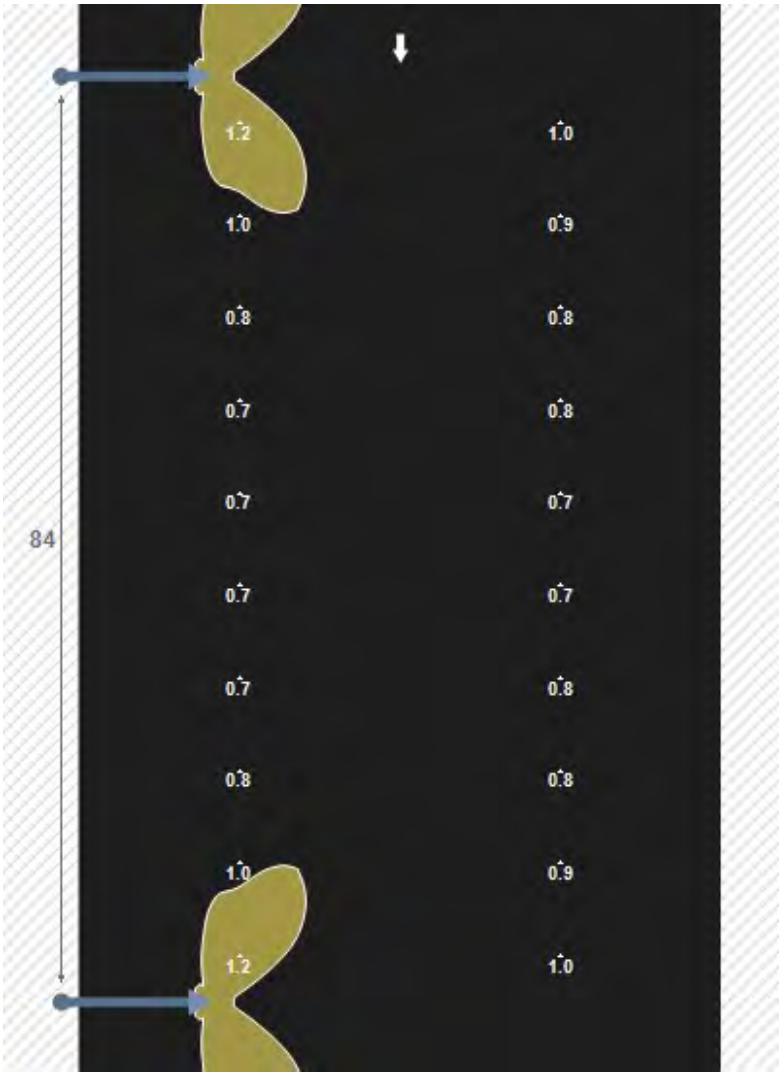
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.2	--	fc
Min	0.7	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

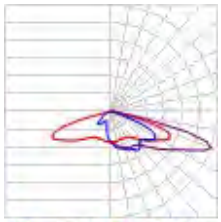
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

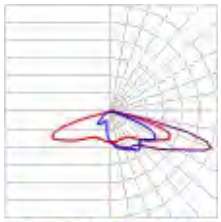
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	319.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	319.74 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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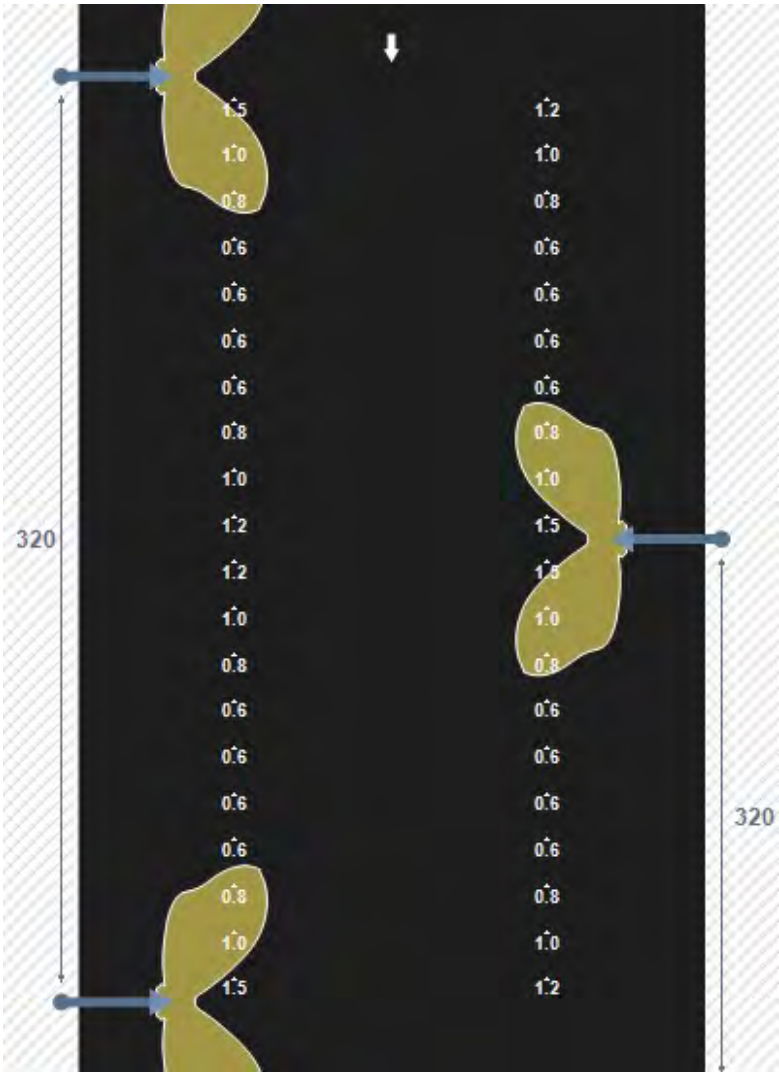
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	158.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	158.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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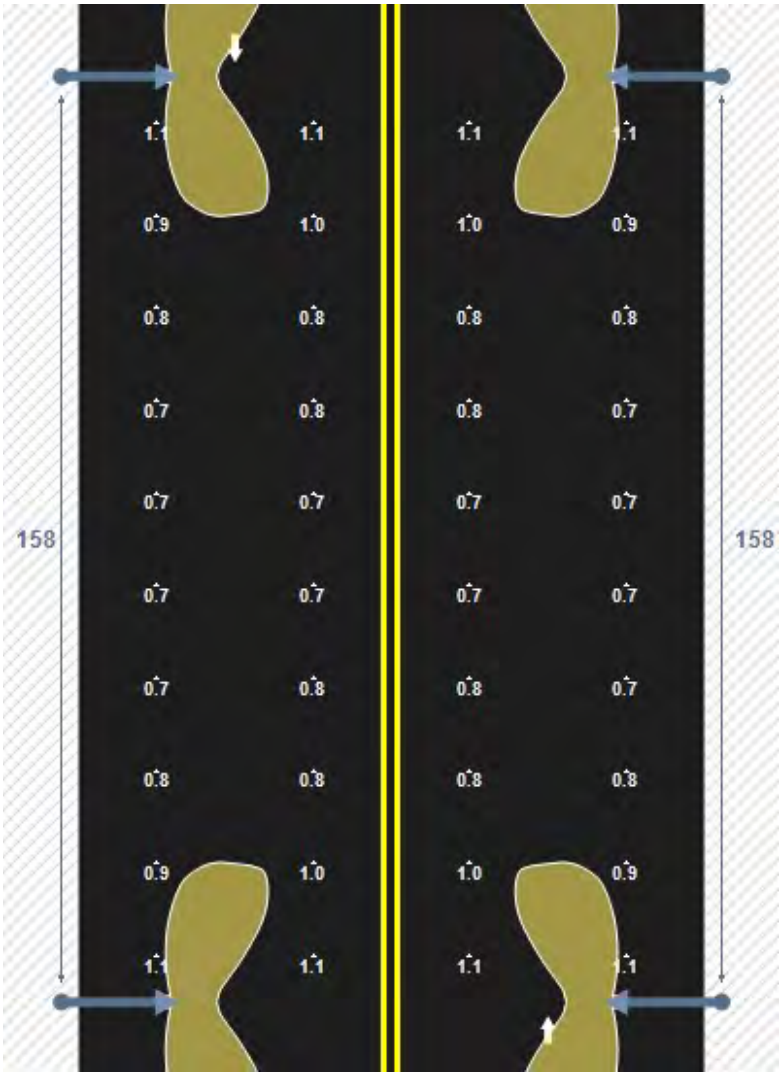
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

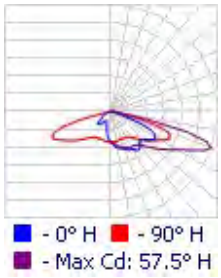
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	135 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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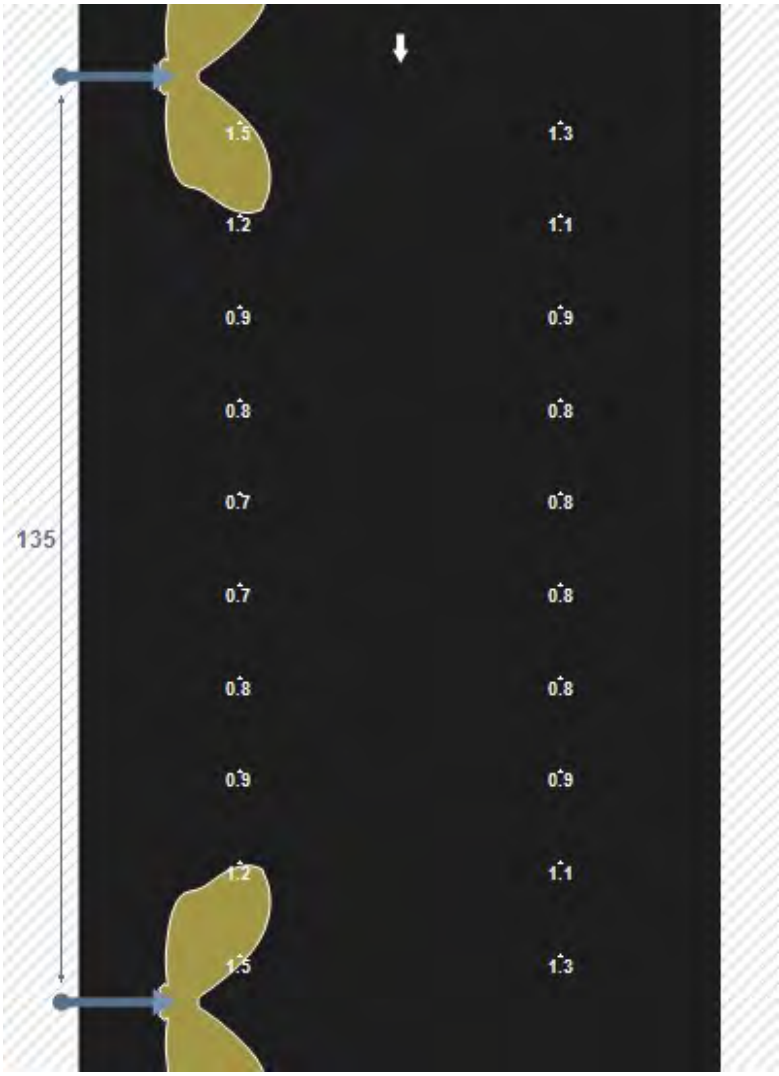
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

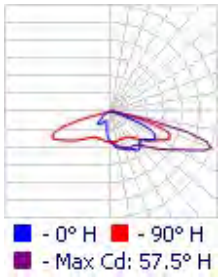
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

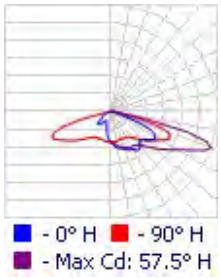
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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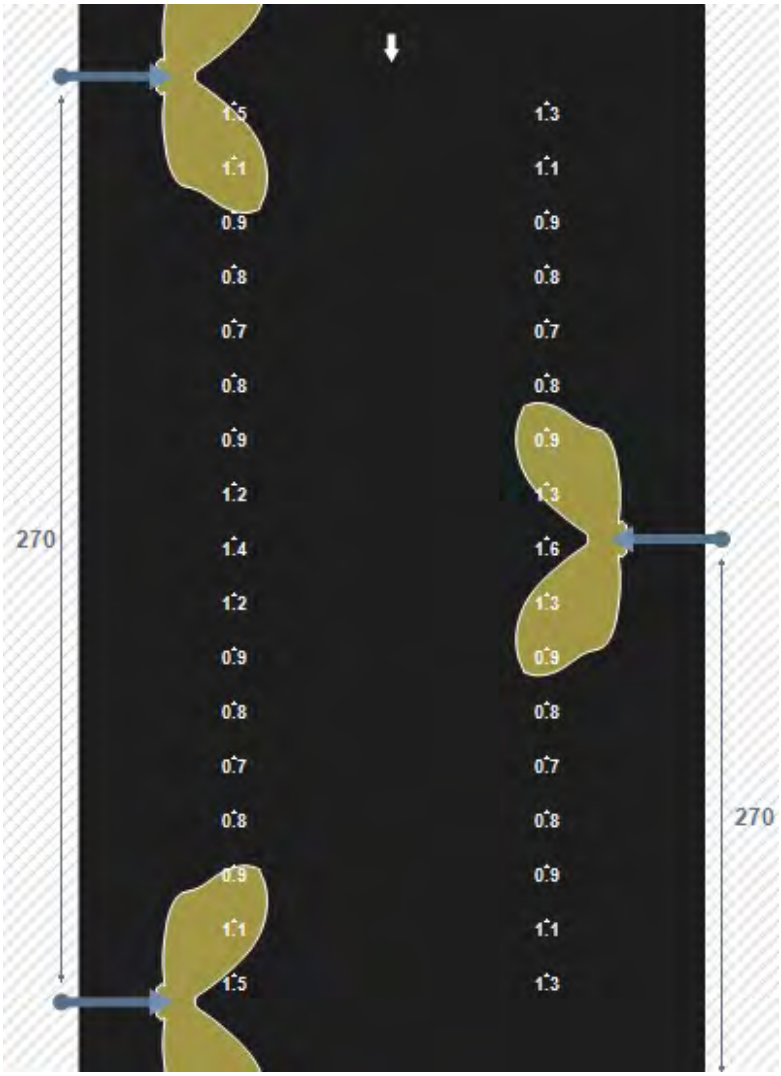
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

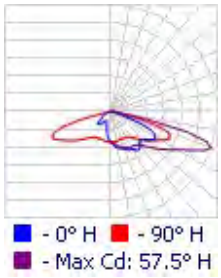
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

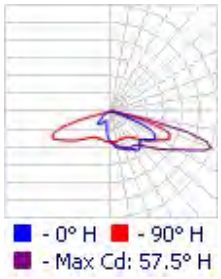
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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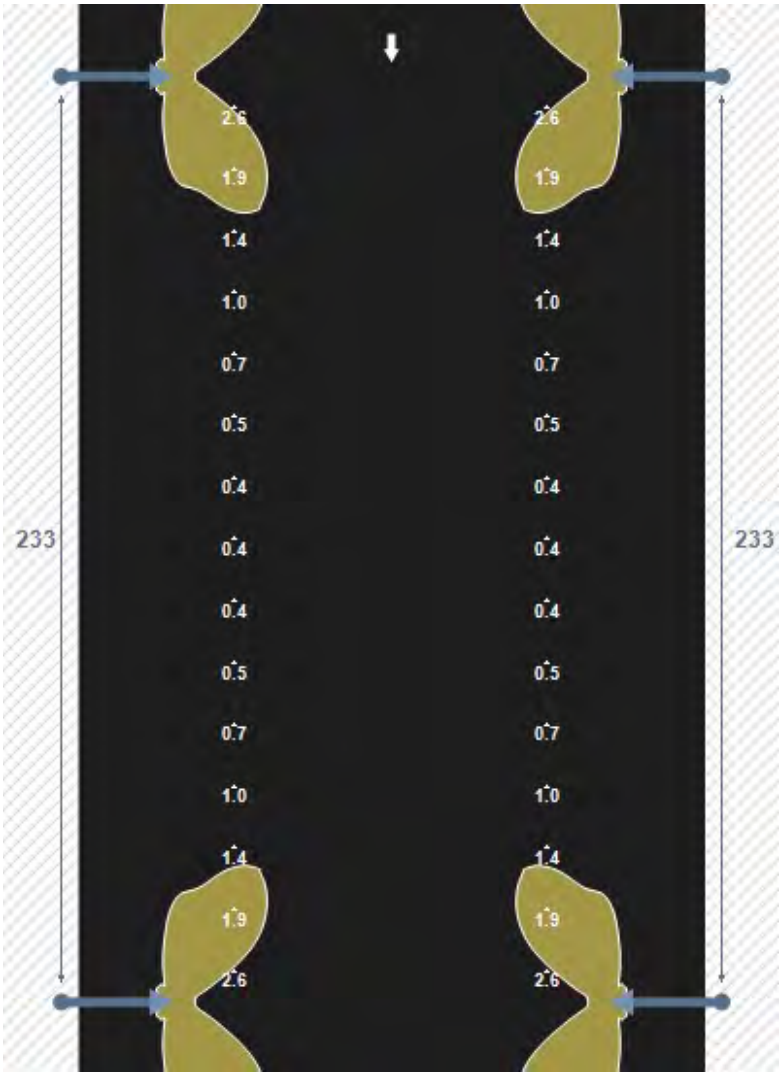

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

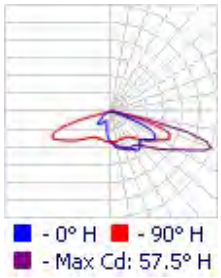
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	159.76 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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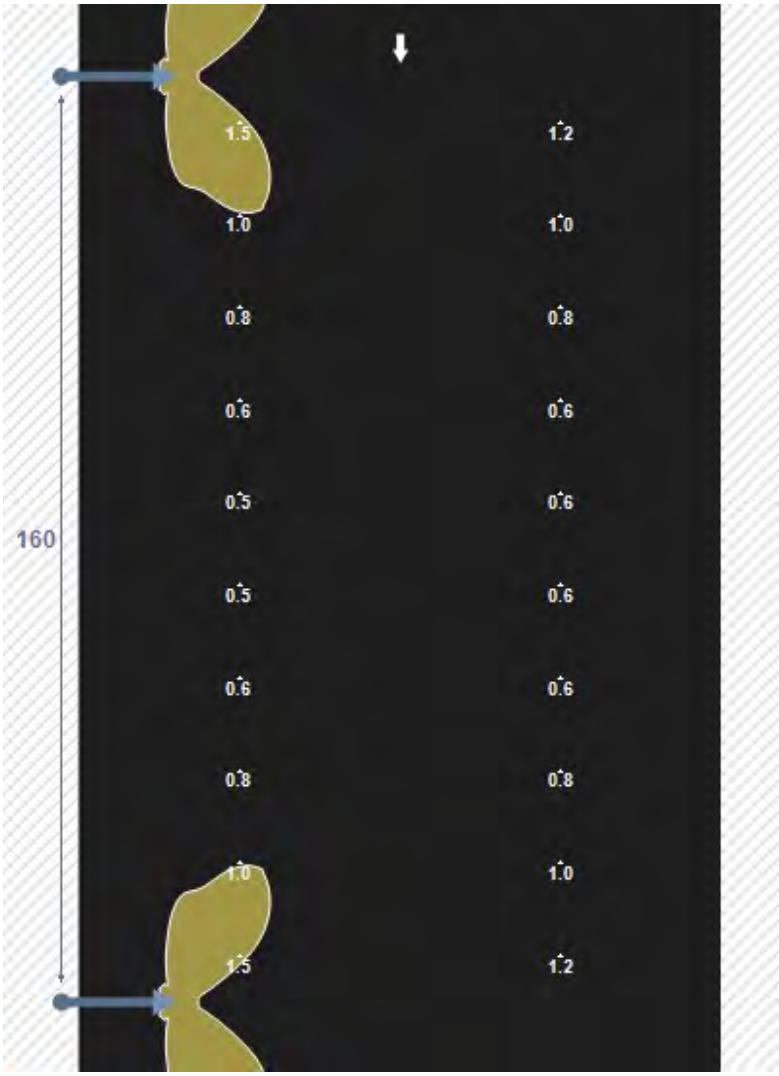

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.5	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

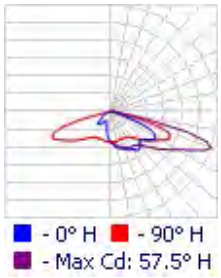
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

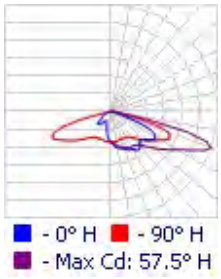
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	313 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	313 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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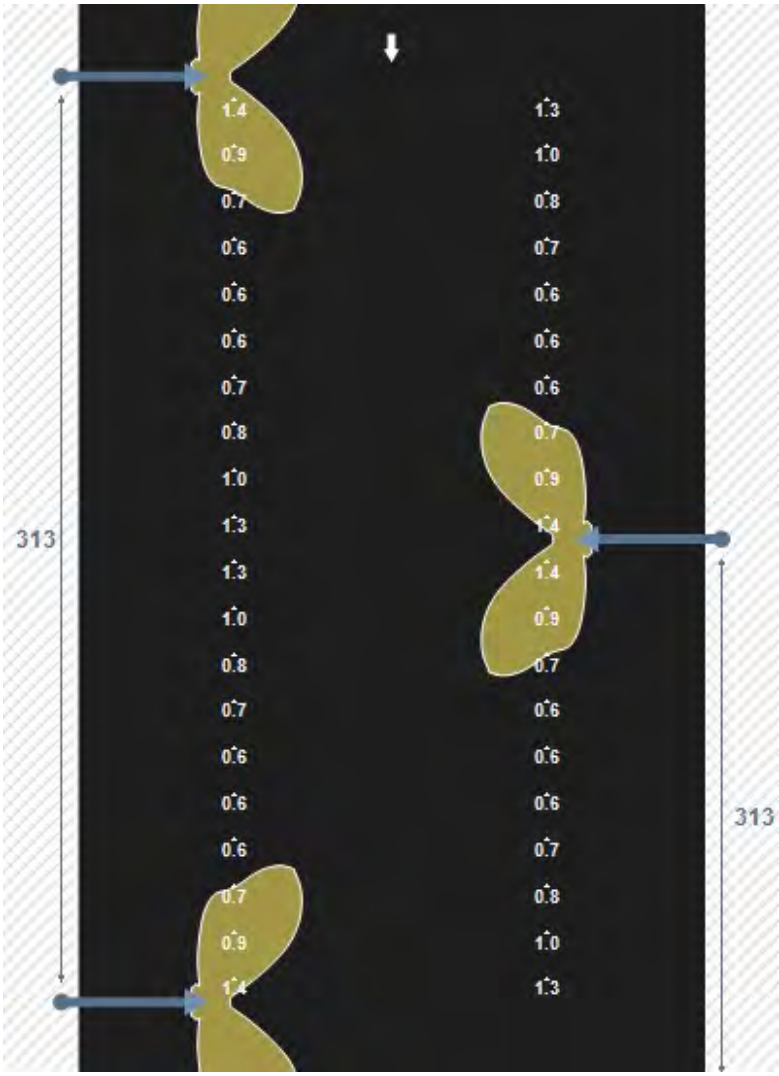

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	157.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	157.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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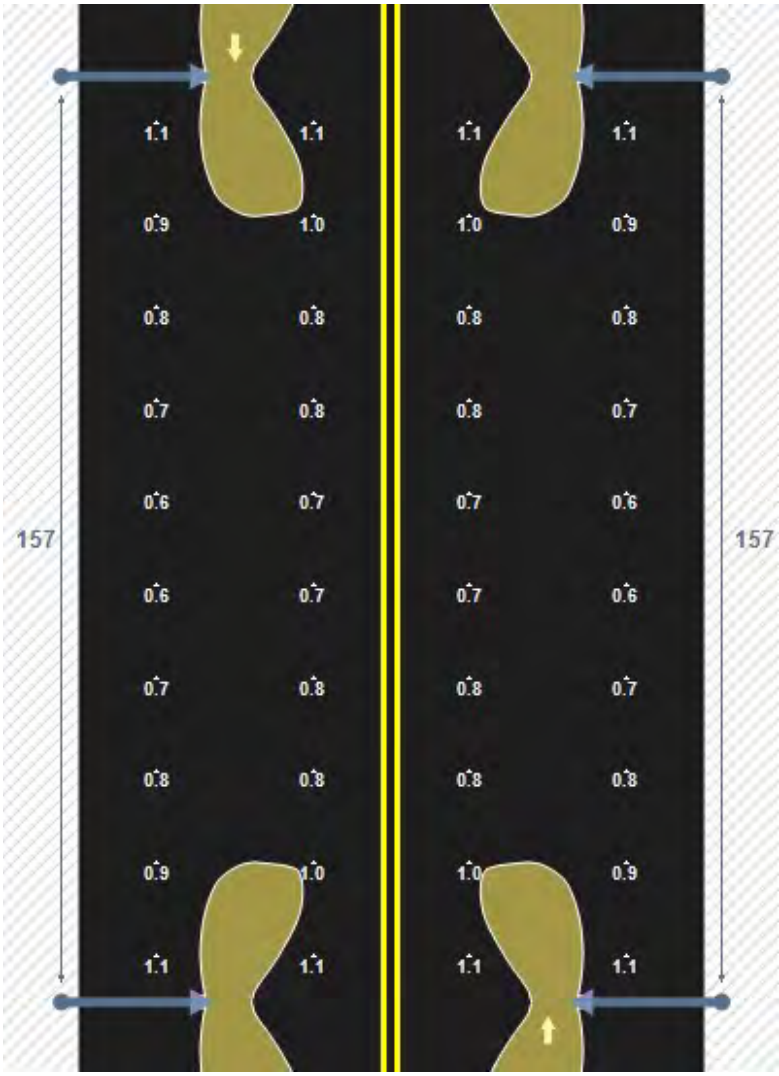

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

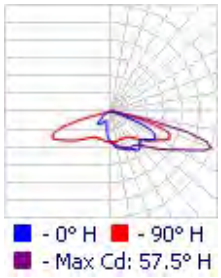
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

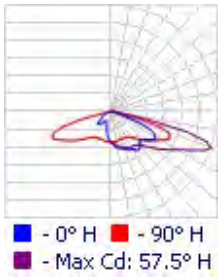
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	270 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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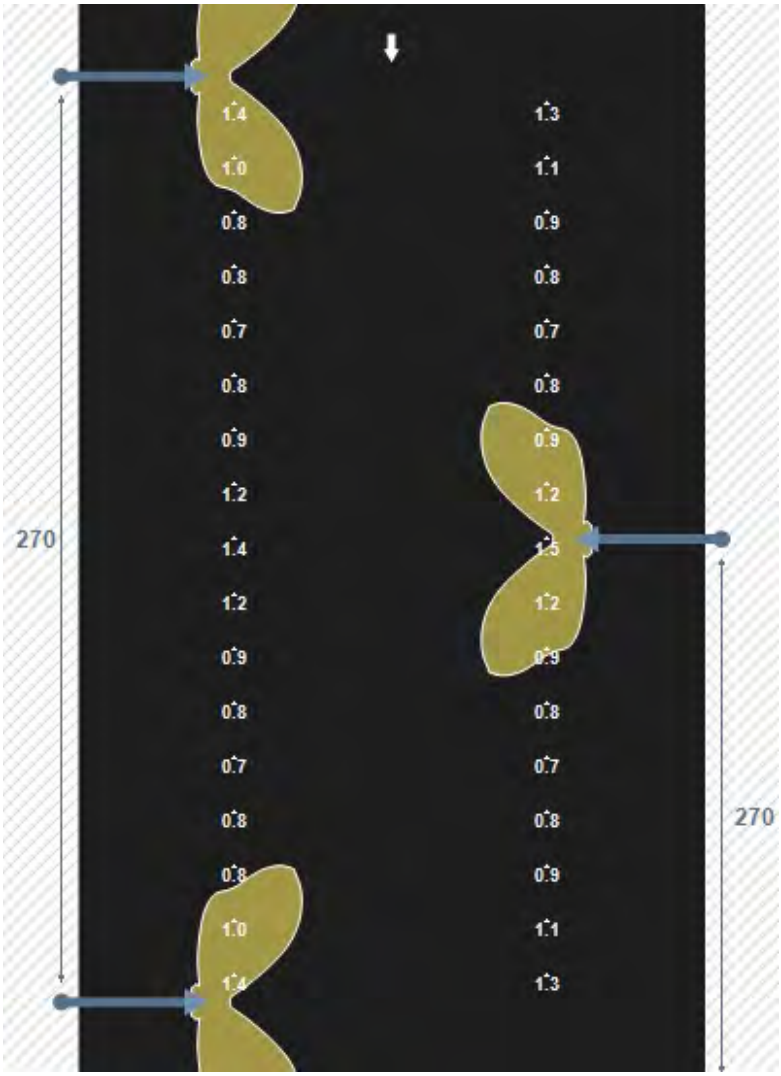

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

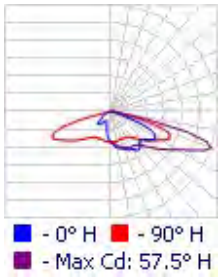
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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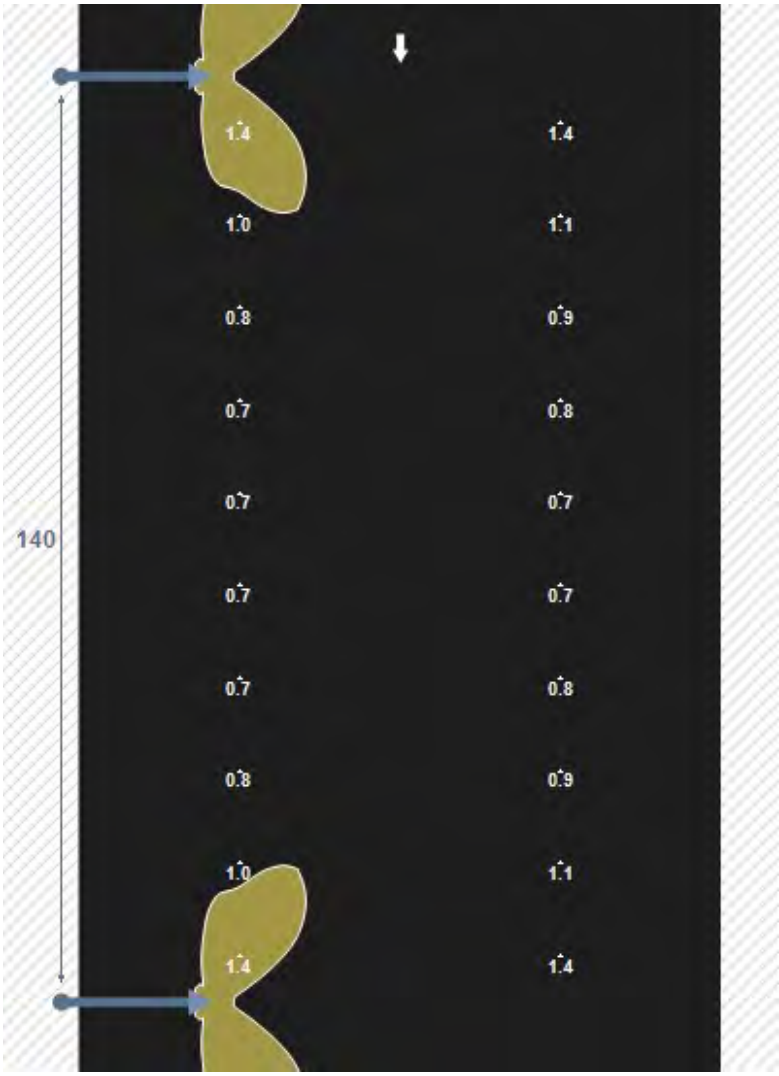

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc
Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

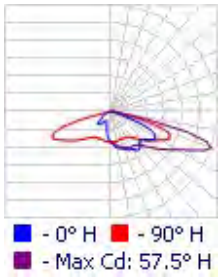
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

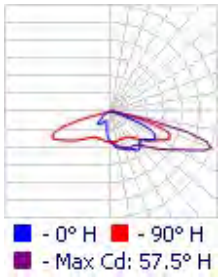
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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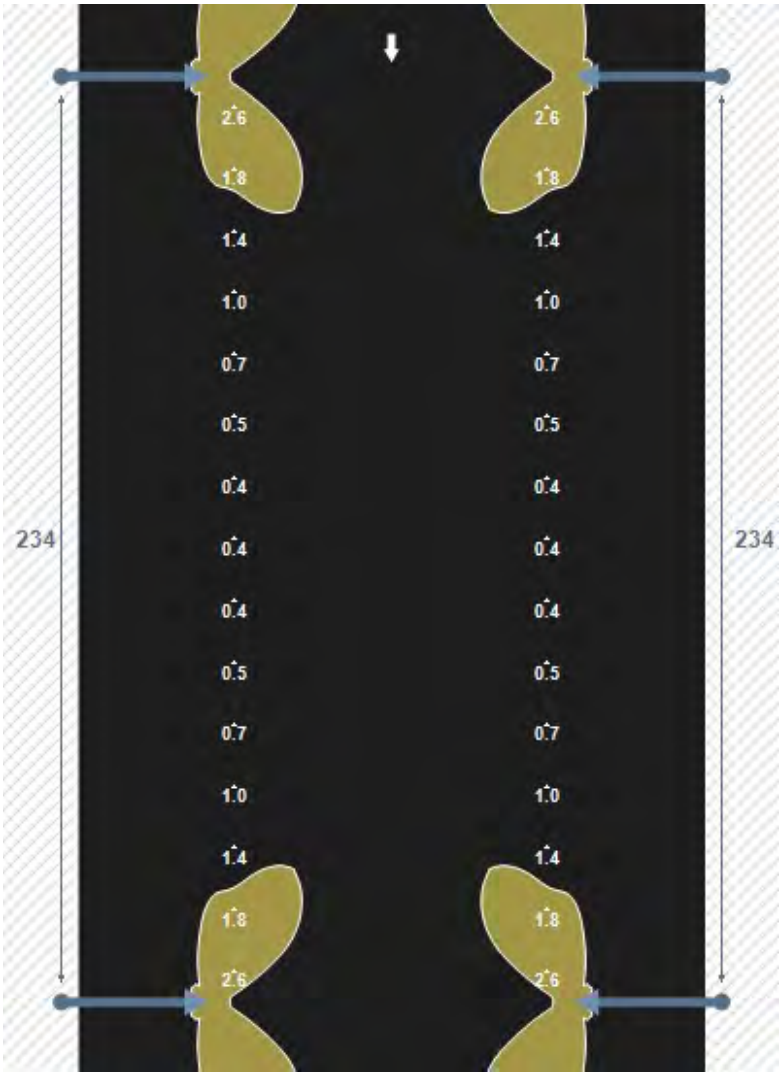

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

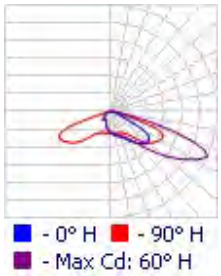
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	109.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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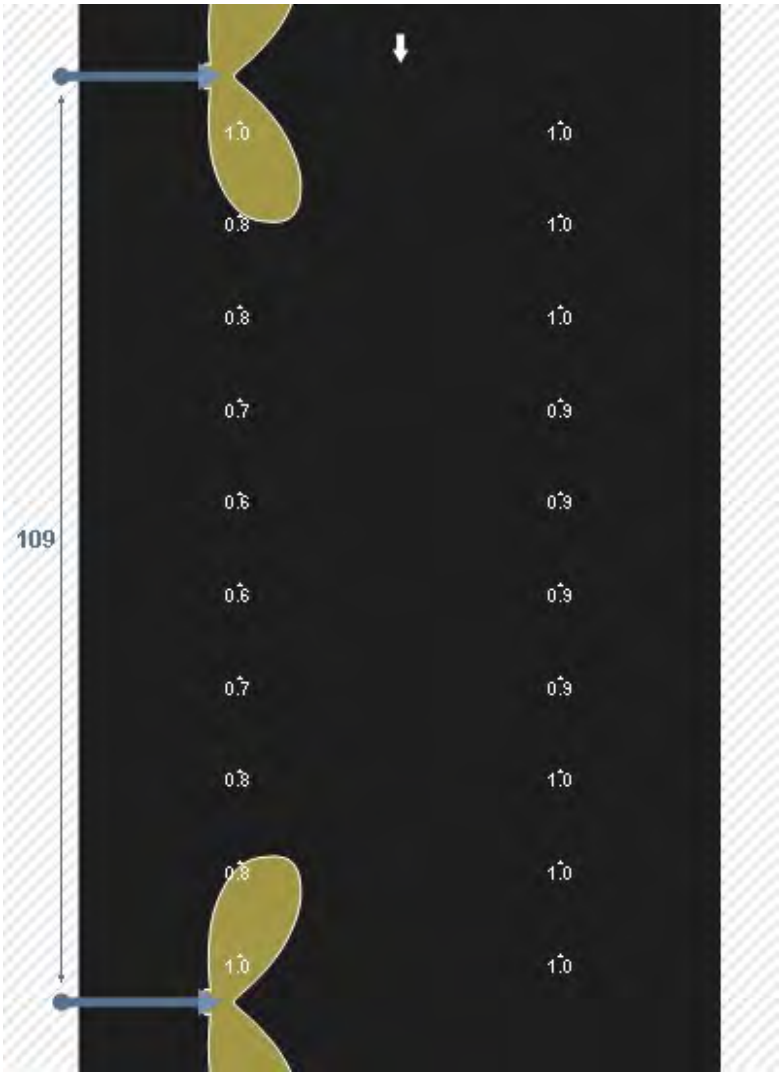

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1	--	fc
Min	0.6	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

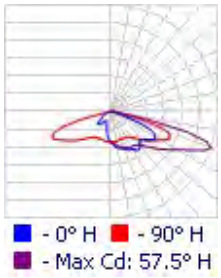
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

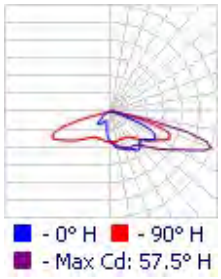
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	309.51 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	309.51 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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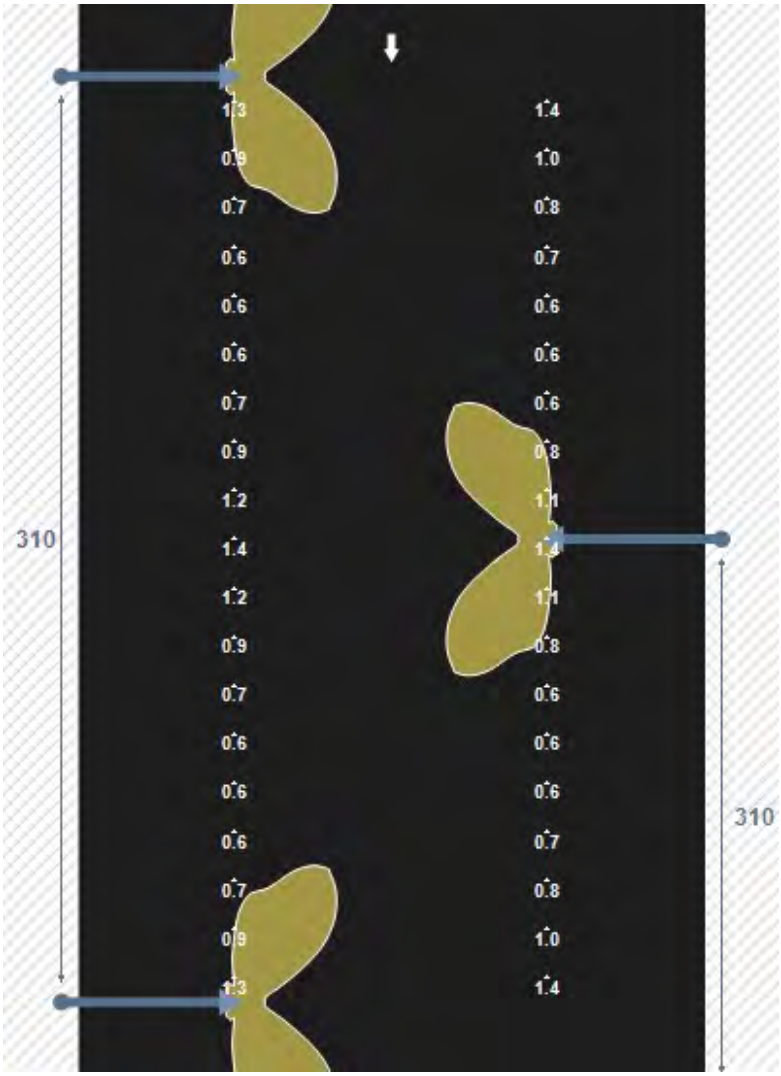

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	154 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	154 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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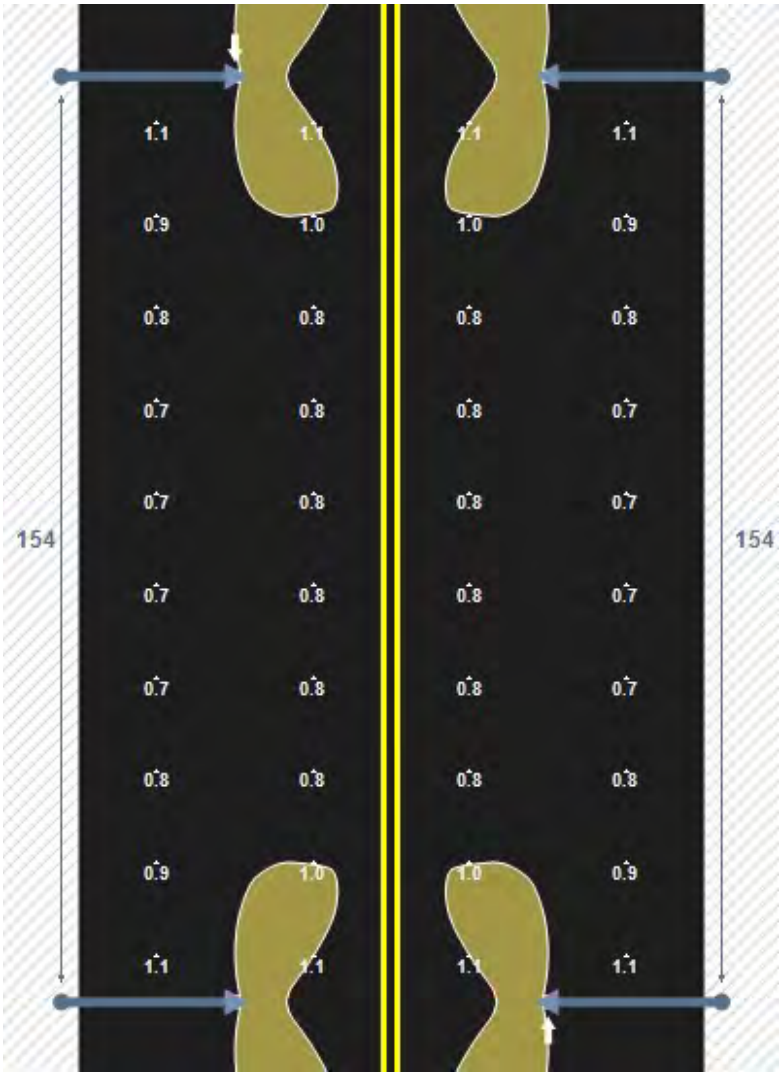

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

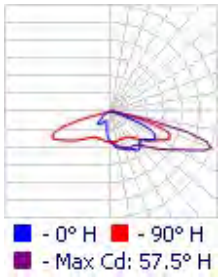
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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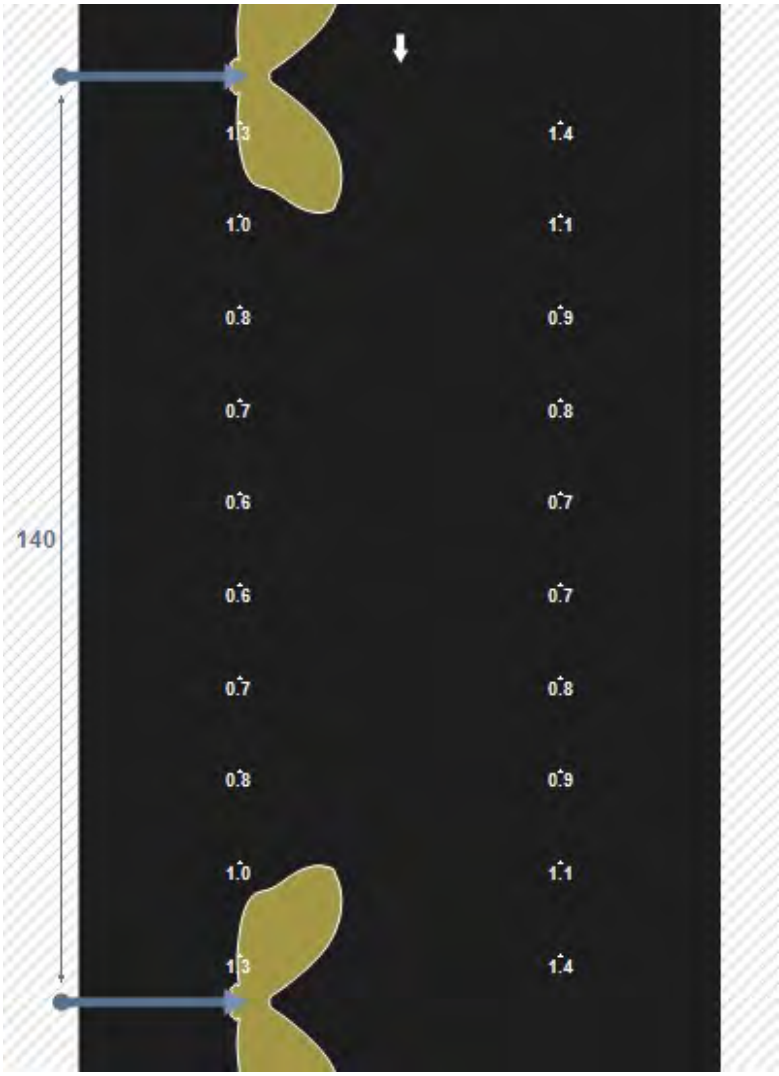

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

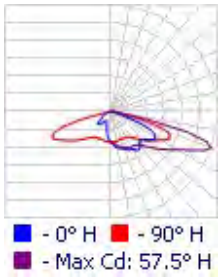
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

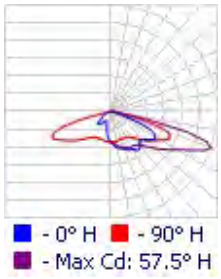
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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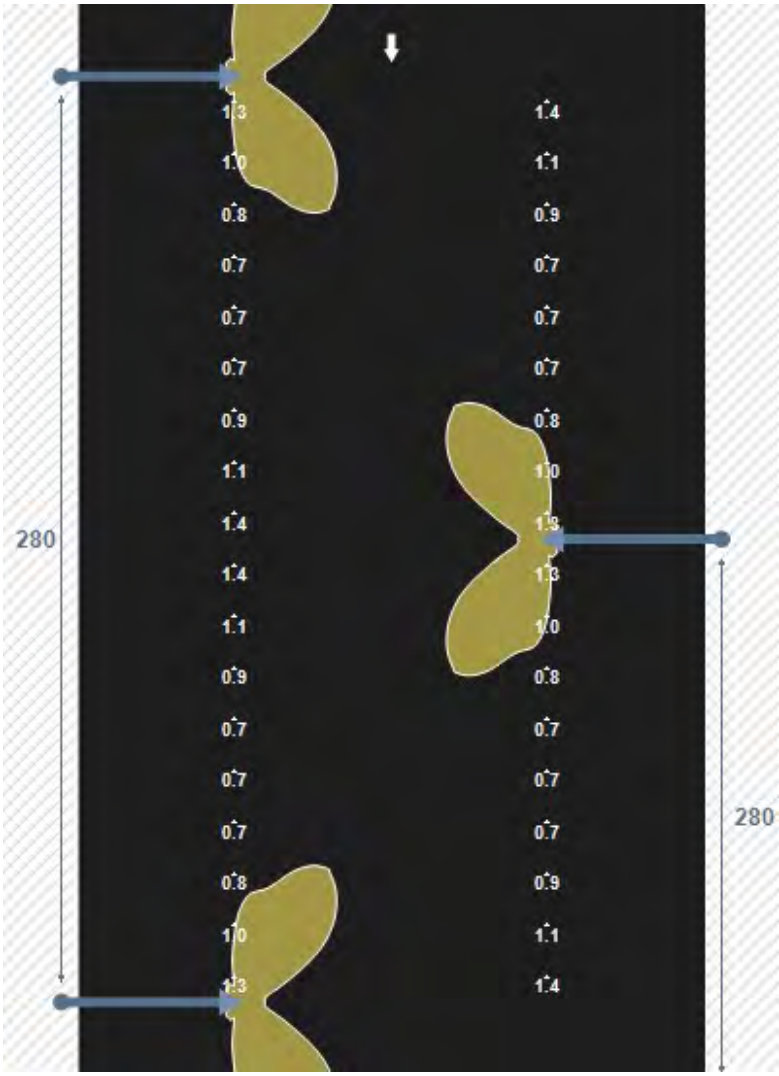

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

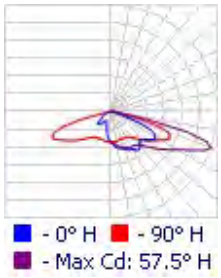
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

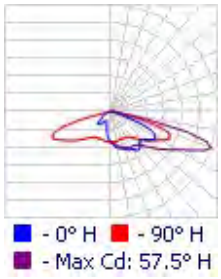
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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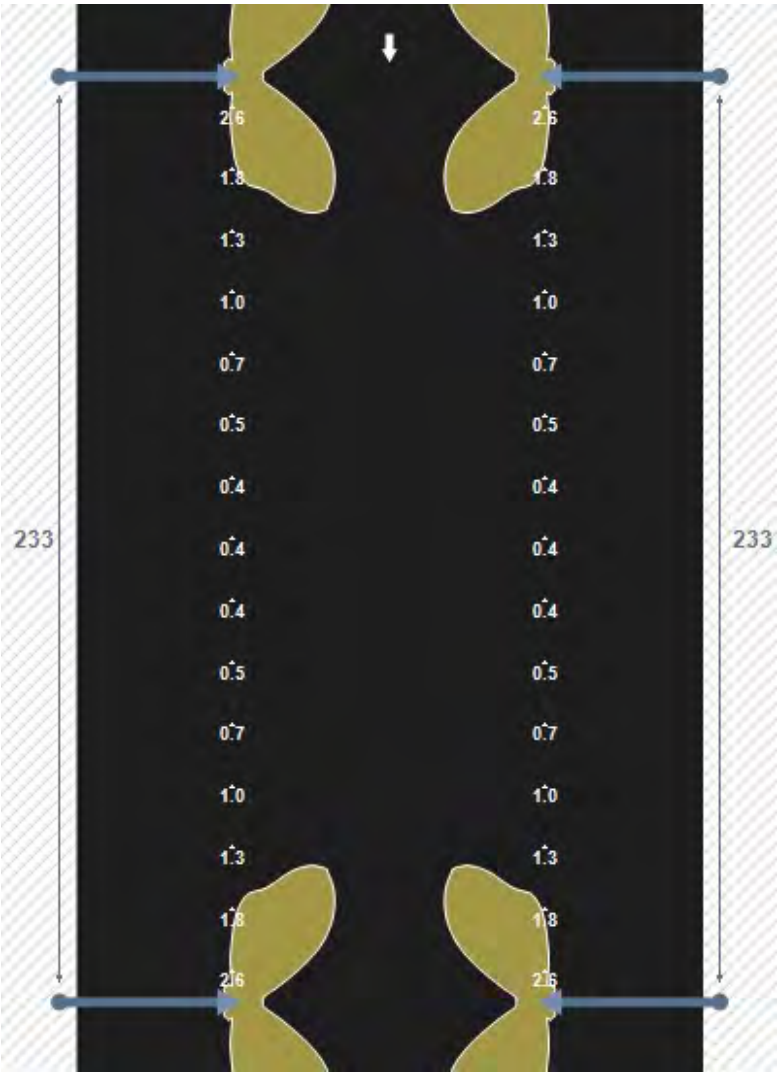

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

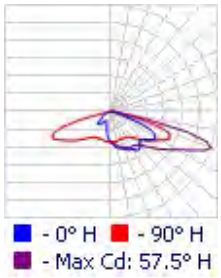
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	154.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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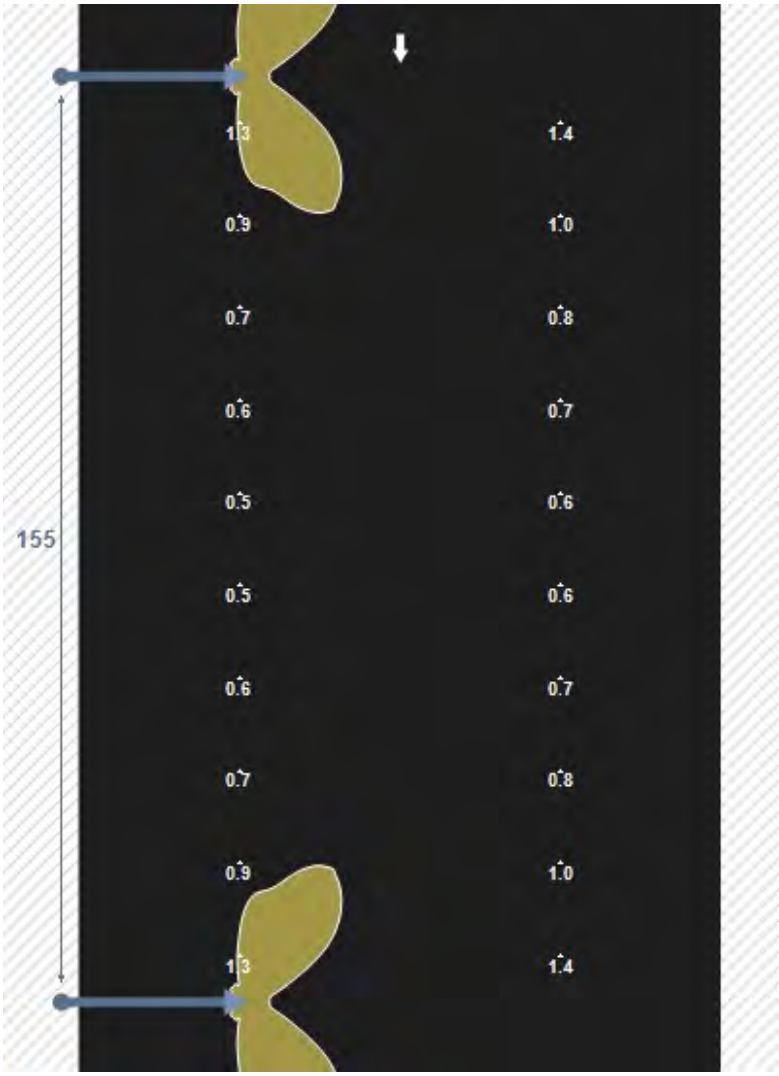

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.5	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

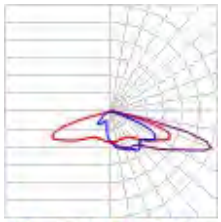
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

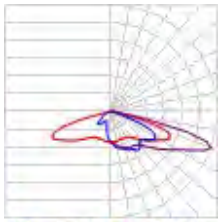
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	307.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	307.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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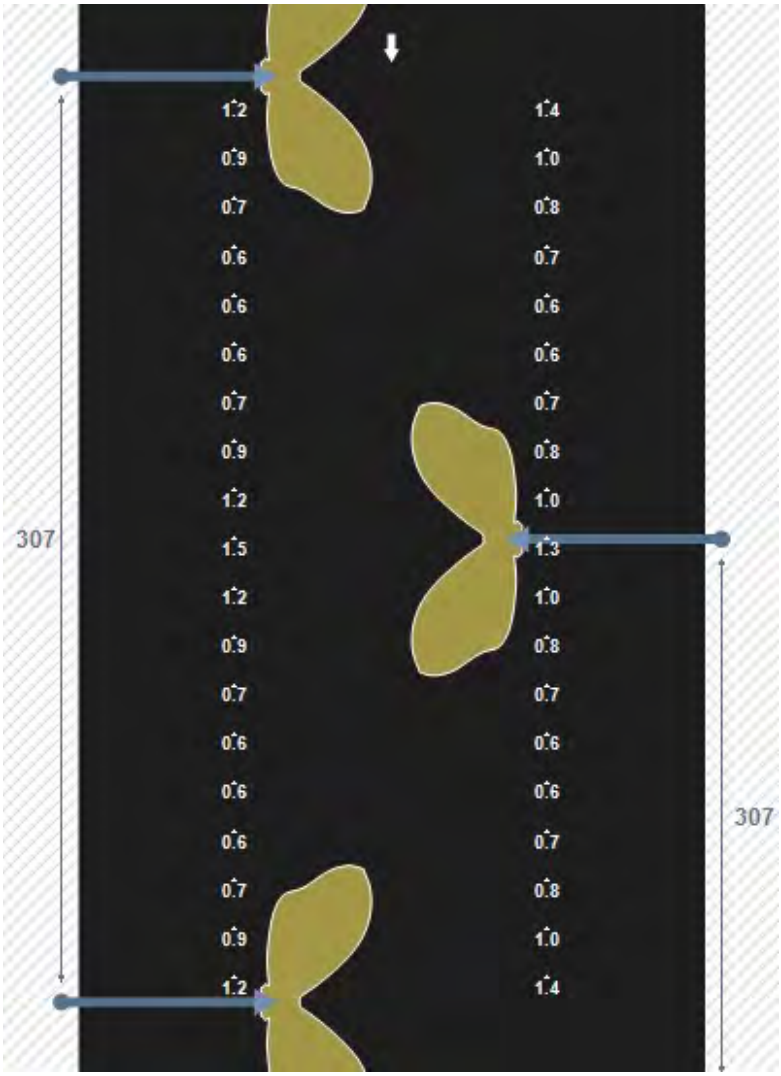

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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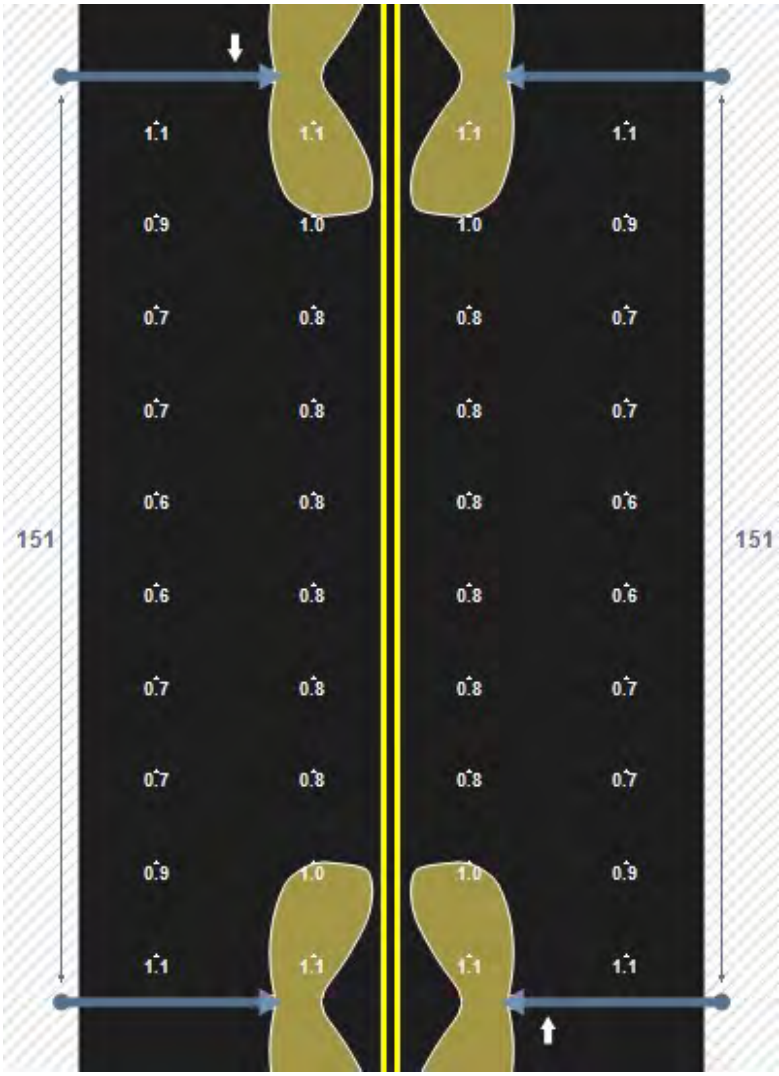

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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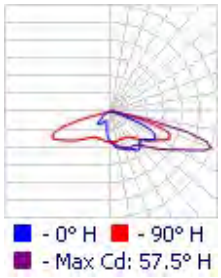
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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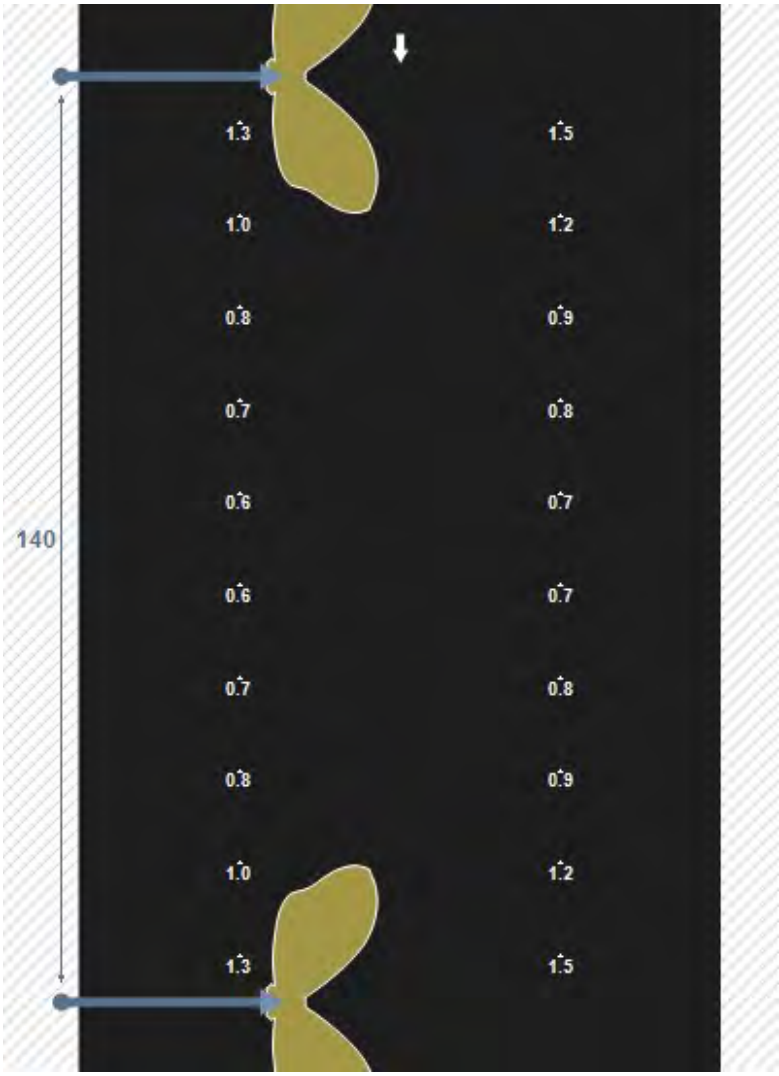

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

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Project Description

User Name
Company Name
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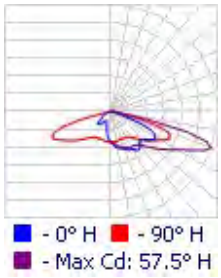
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

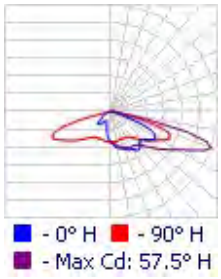
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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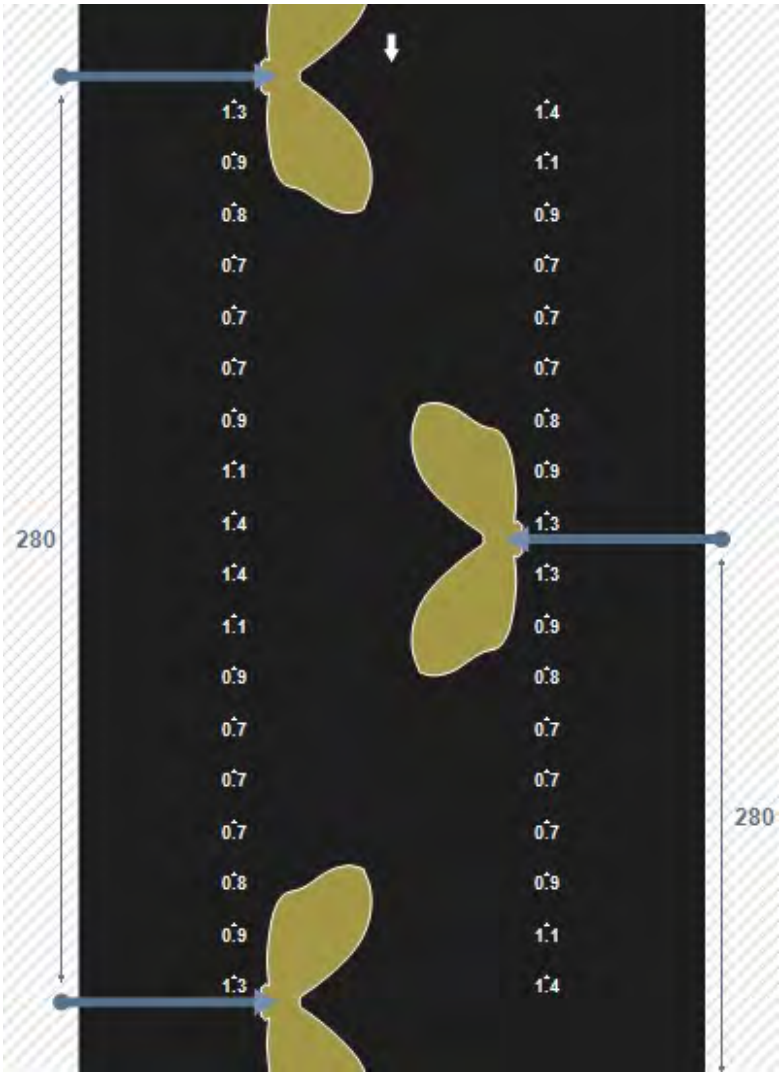

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

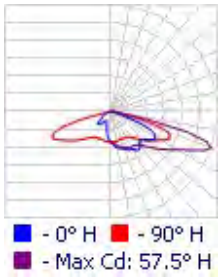
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

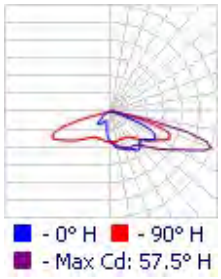
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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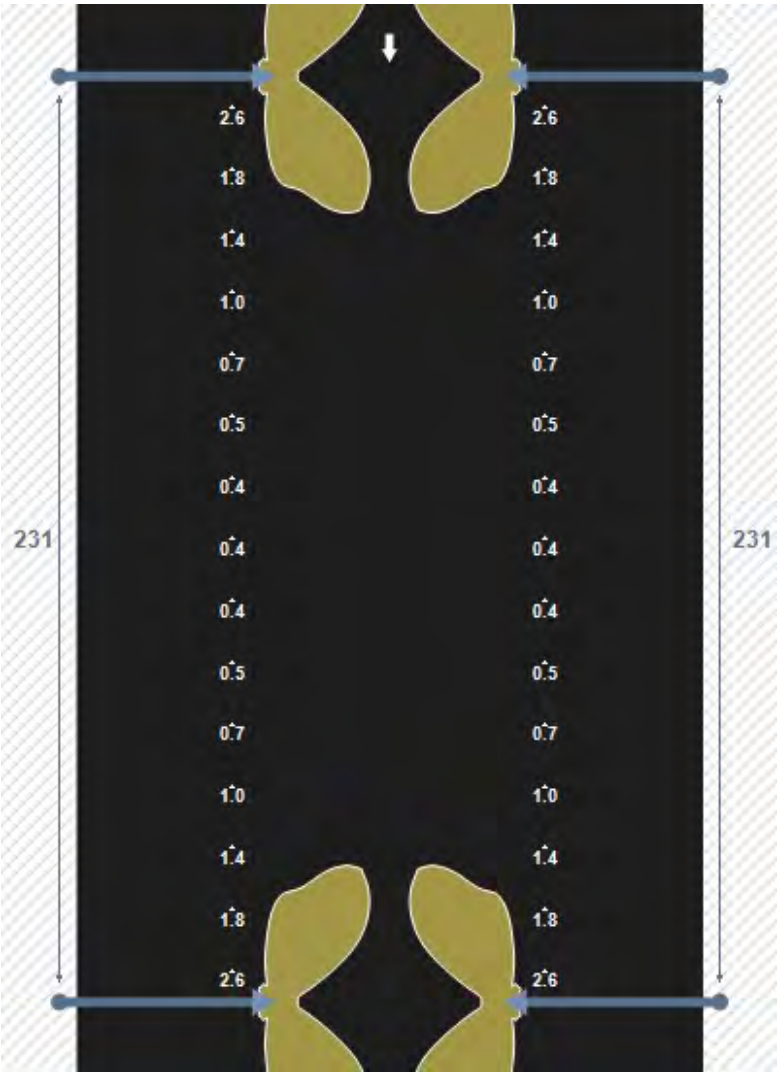

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

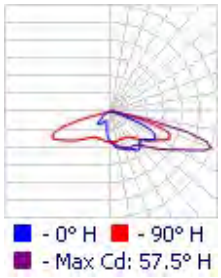
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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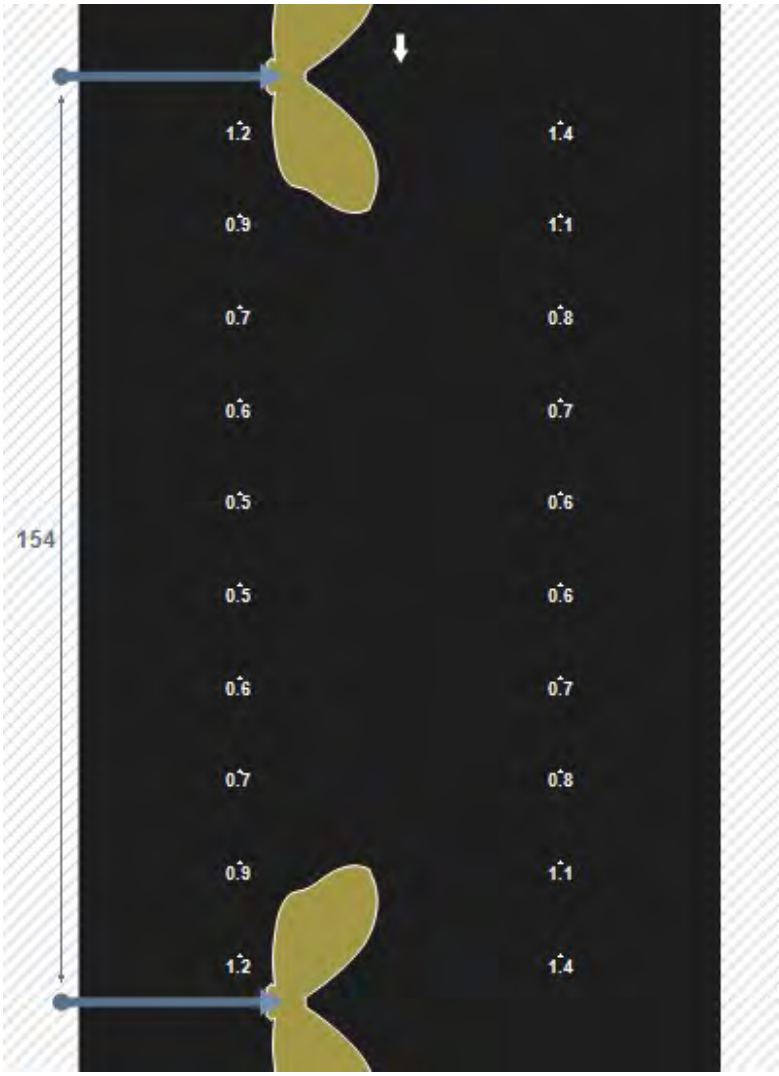

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.5	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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Company Name
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Your Email

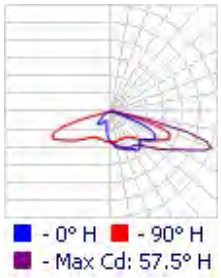
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

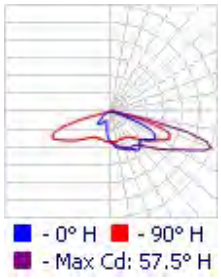
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	298.06 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	298.06 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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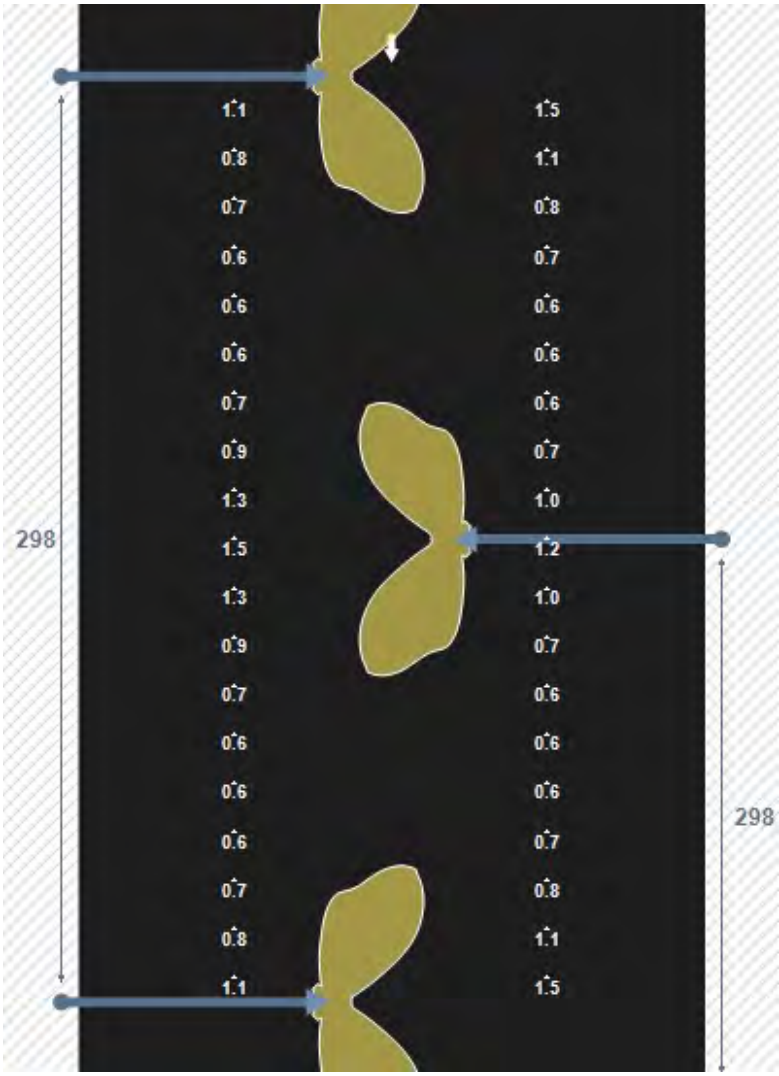

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	145.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	145.22 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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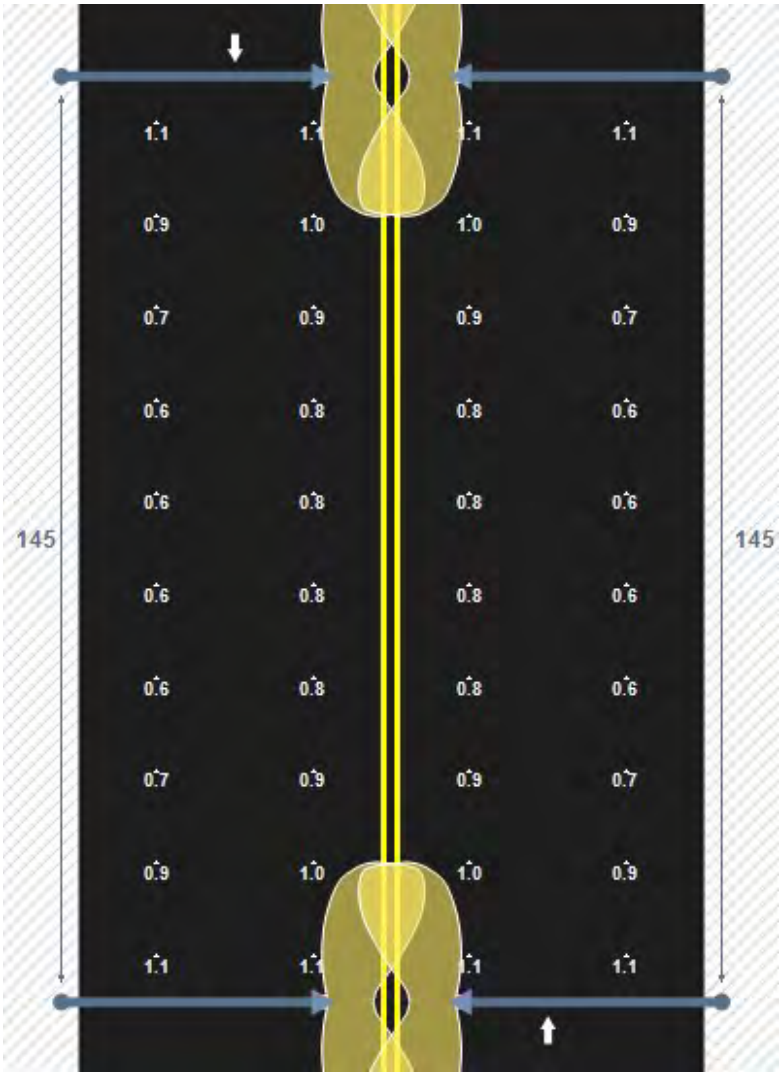

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	0.8	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.9	1.9	
Lv Ratio:	0.2	0.2	
STV:	1.5	1.5	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

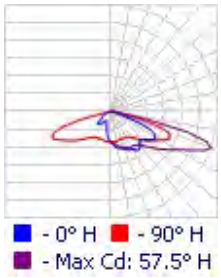
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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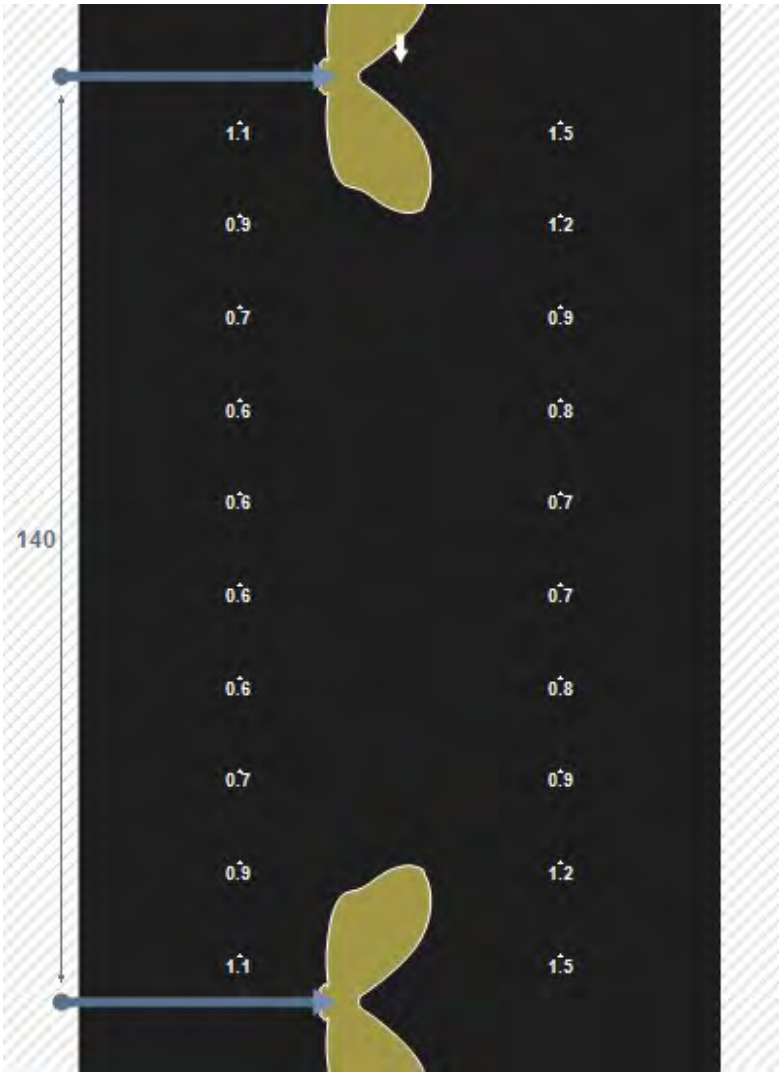

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

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Project Description

User Name
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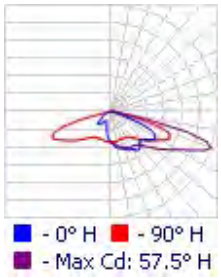
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

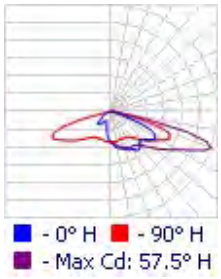
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	280 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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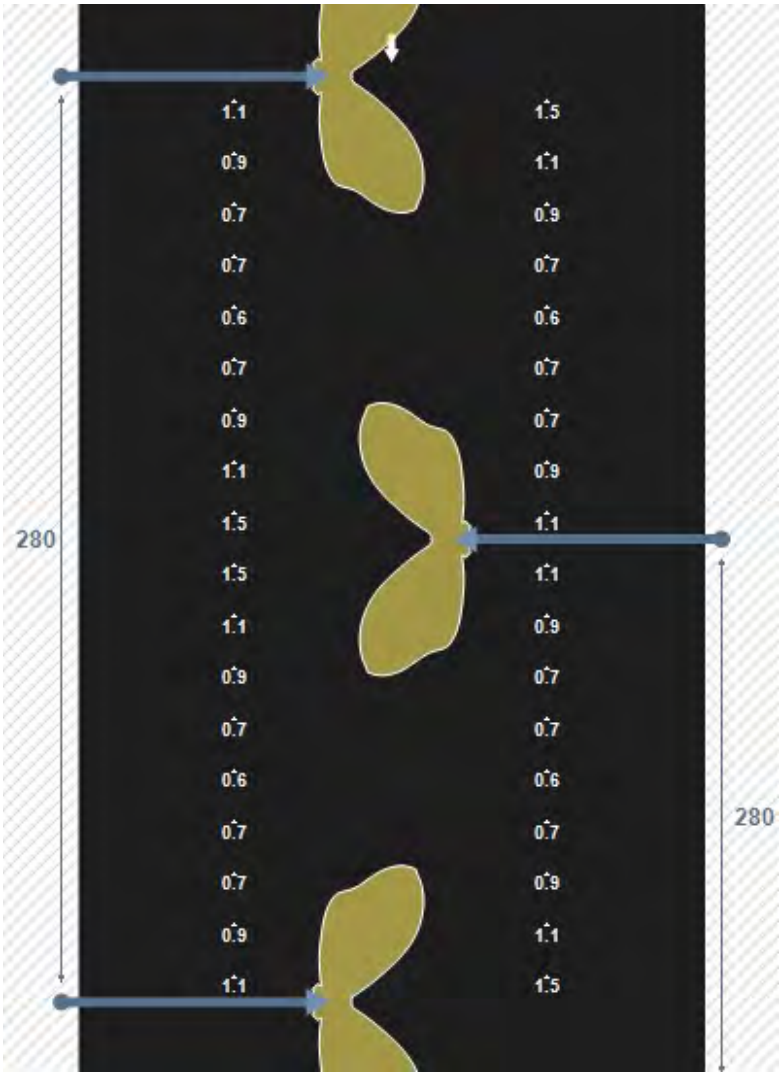

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
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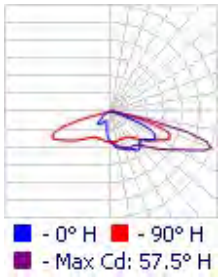
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

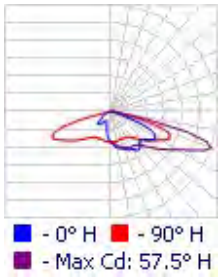
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	229.65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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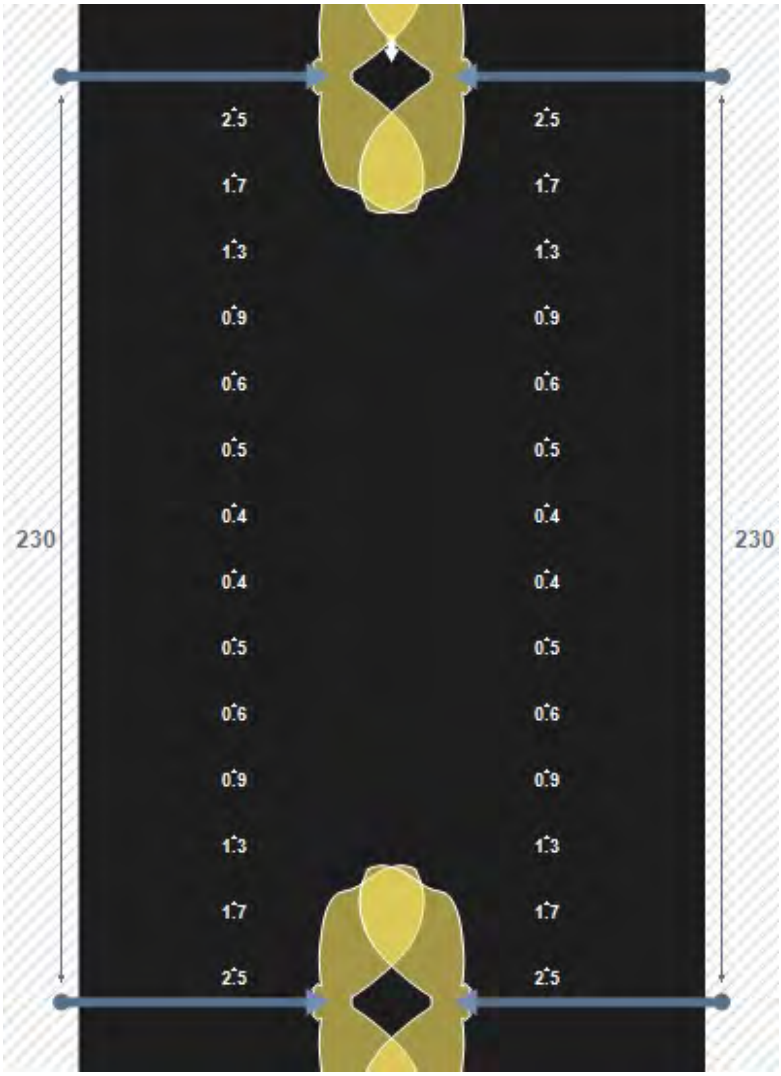

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.1	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

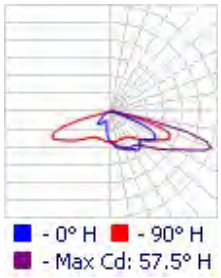
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	148.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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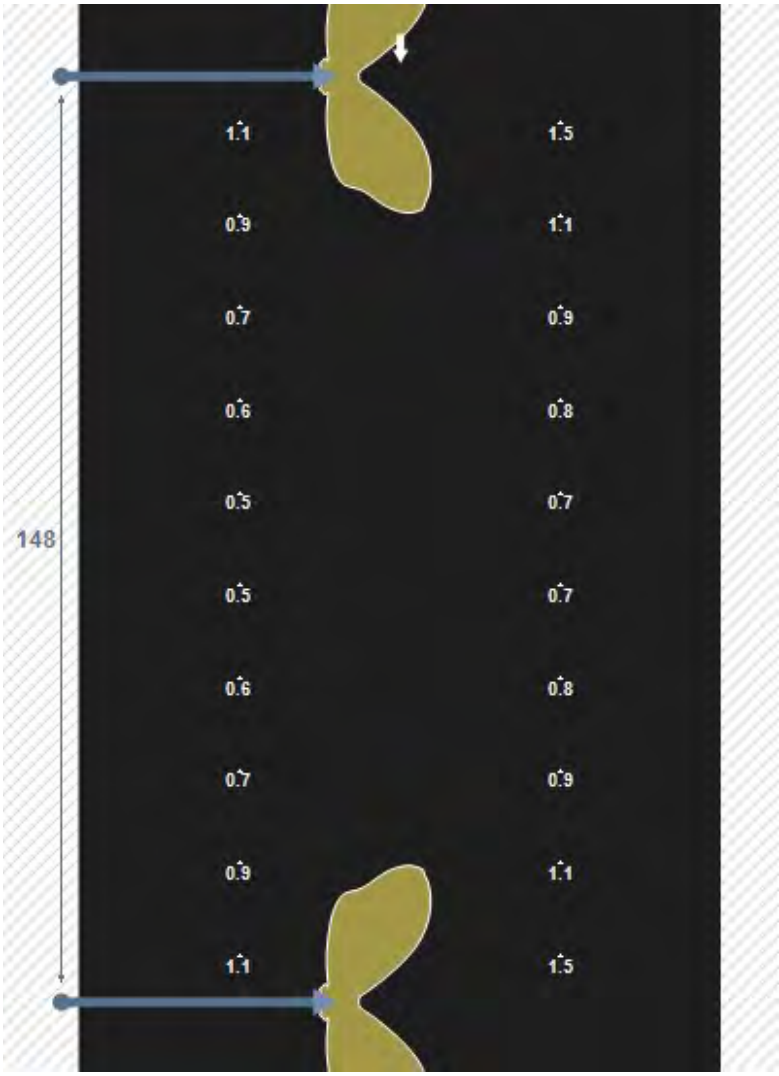

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.5	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

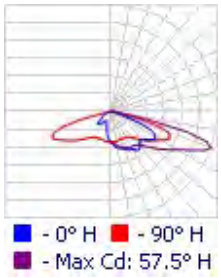
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

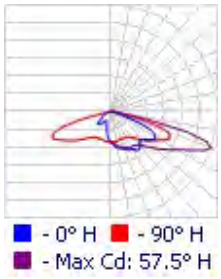
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	316.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	316.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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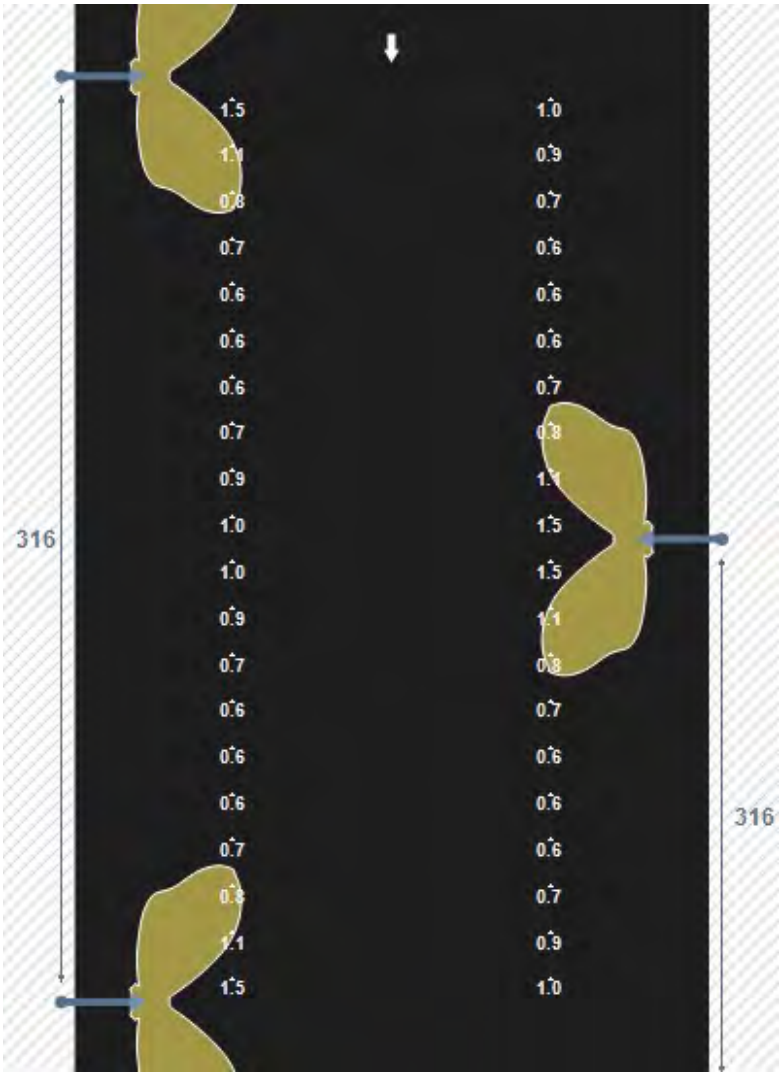

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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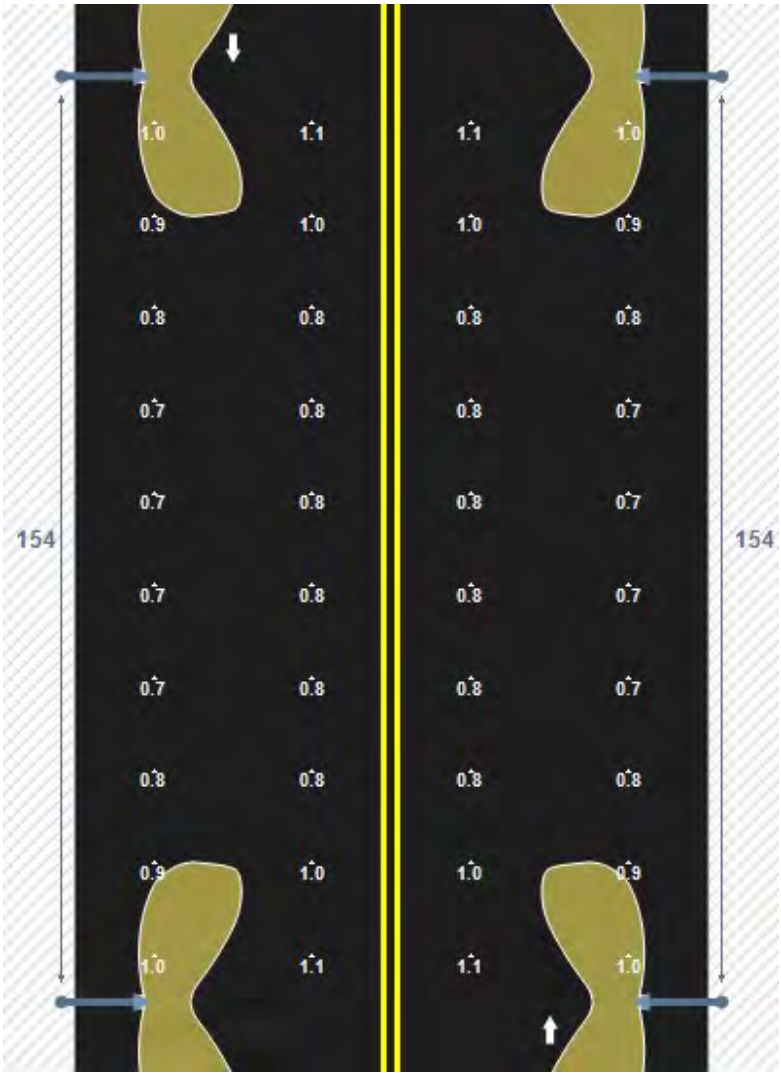

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

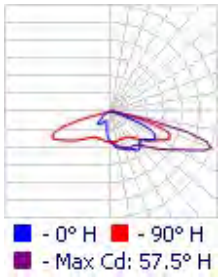
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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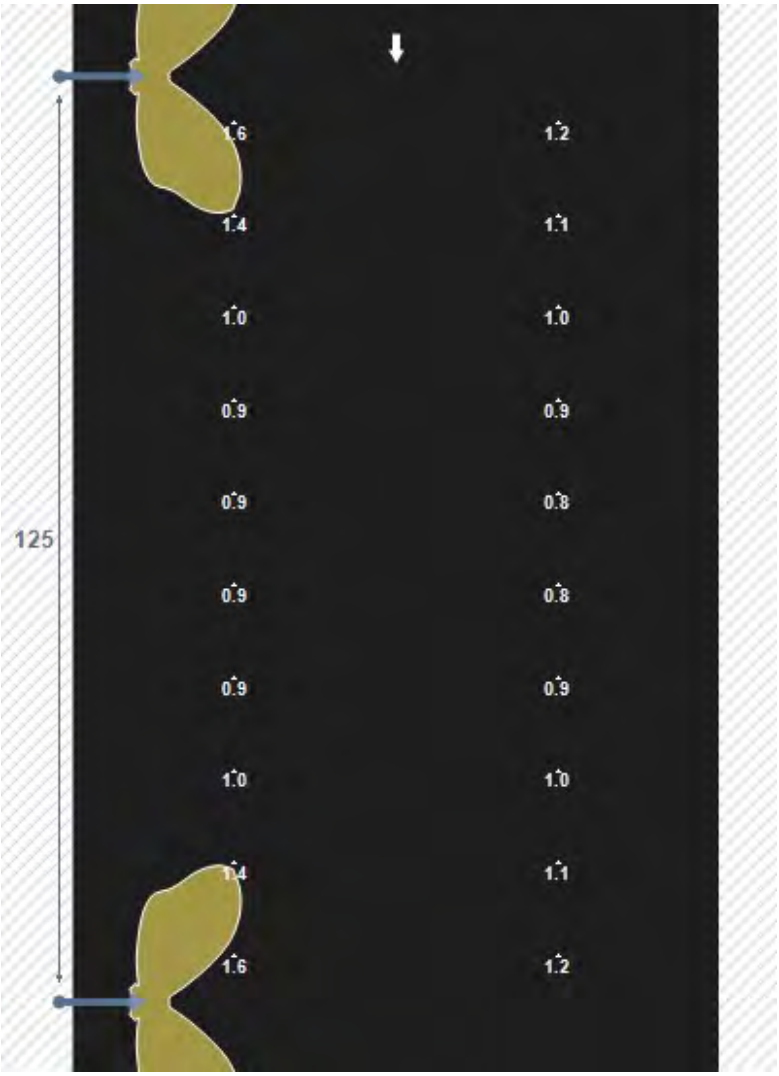

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

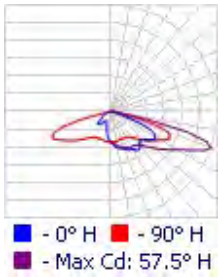
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

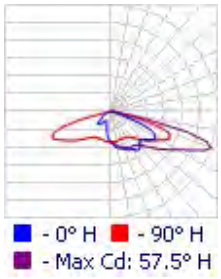
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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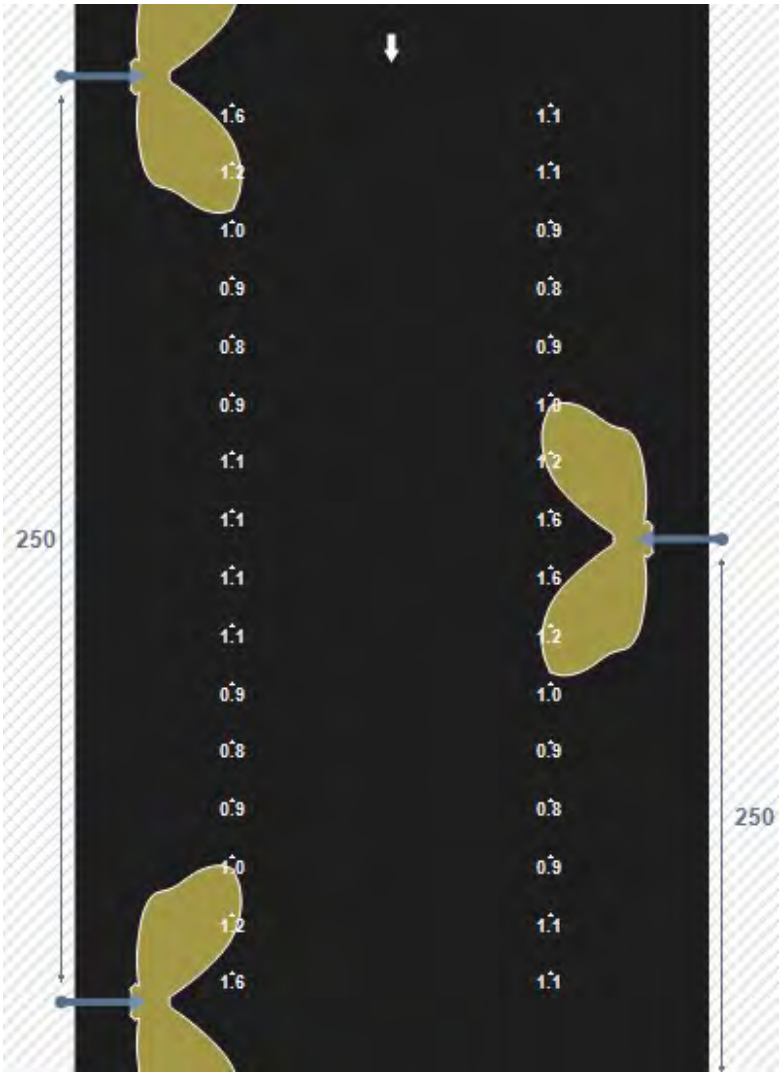

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

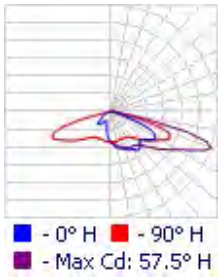
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

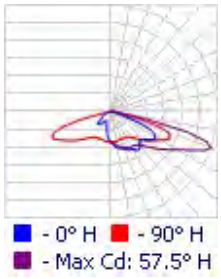
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	240 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	240 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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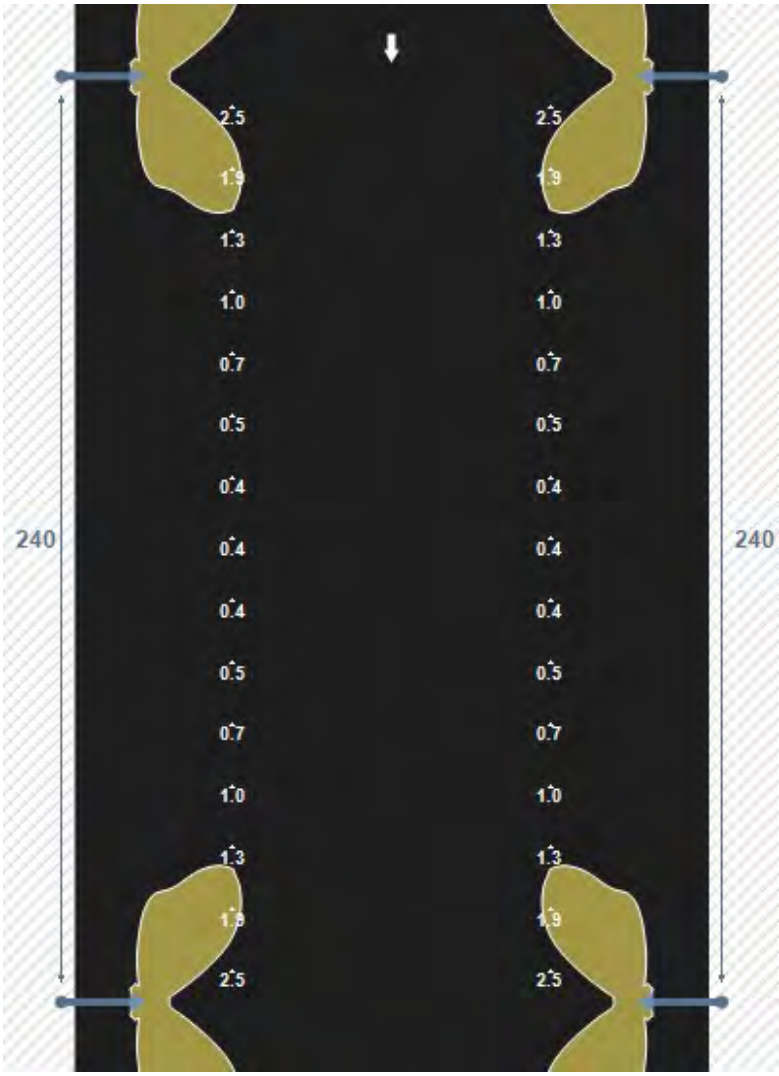

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3.1	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

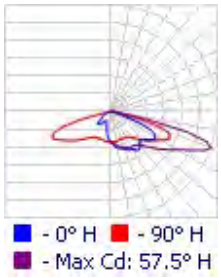
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

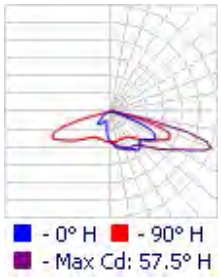
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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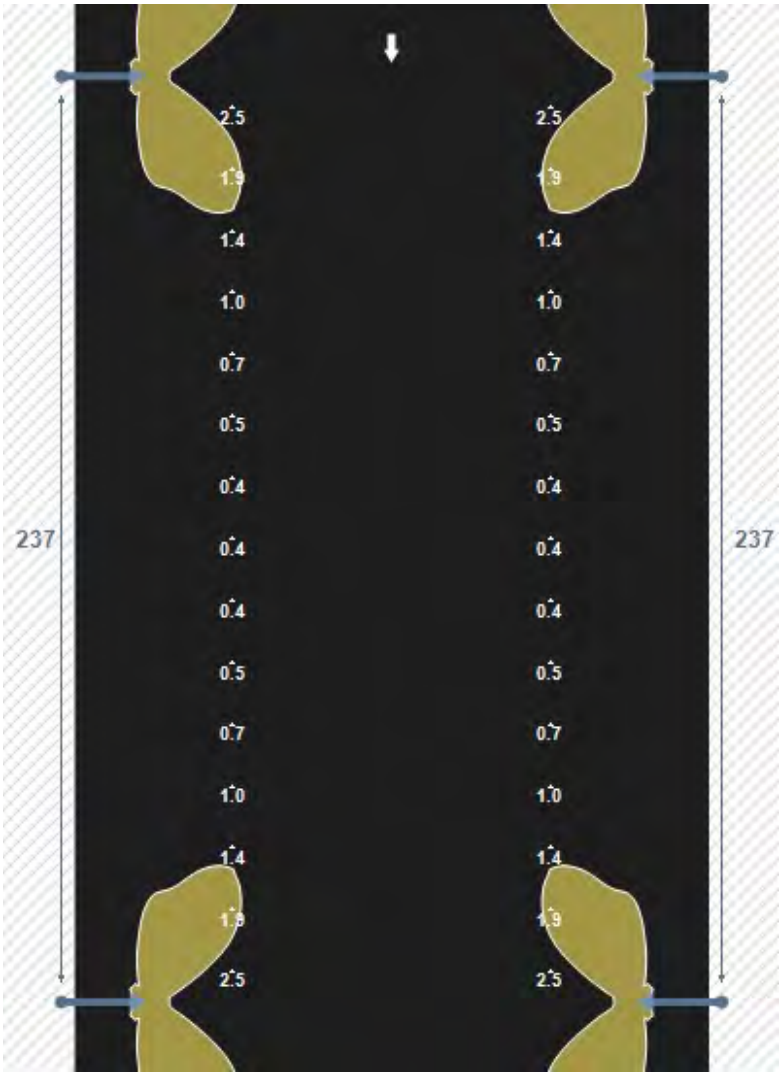

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

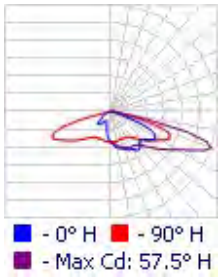
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	158.02 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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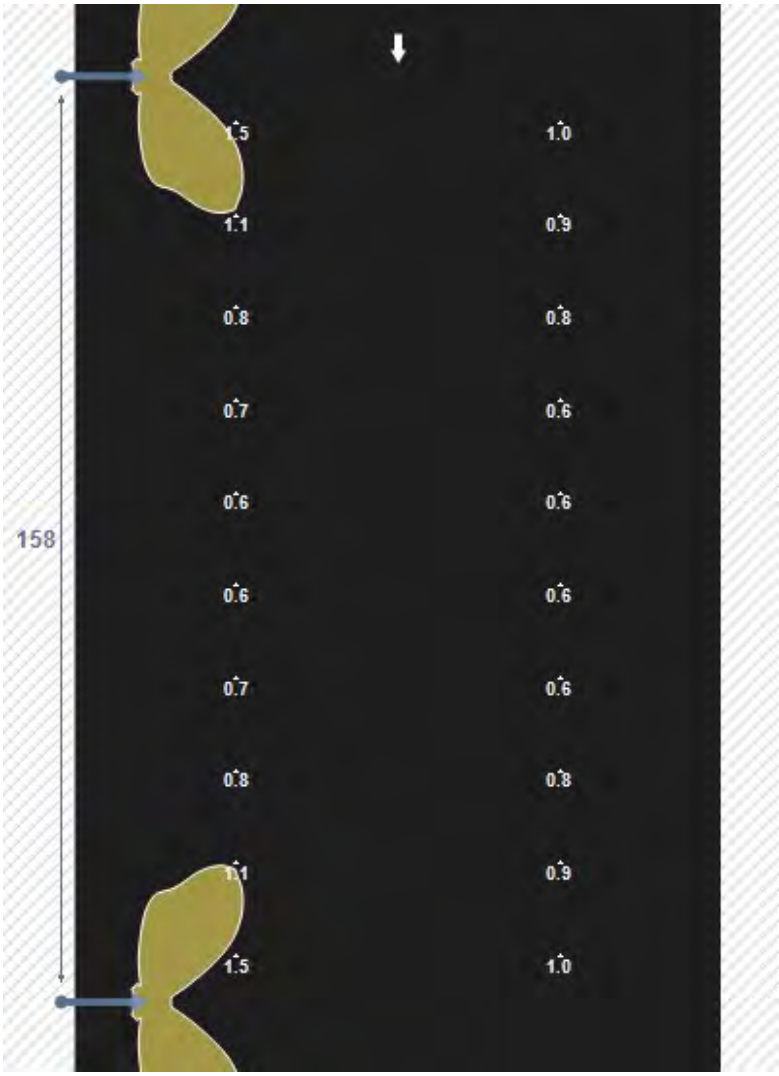

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

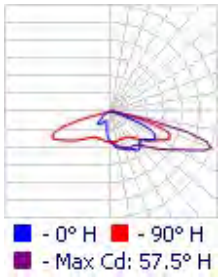
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

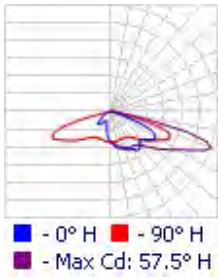
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	315.83 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	315.83 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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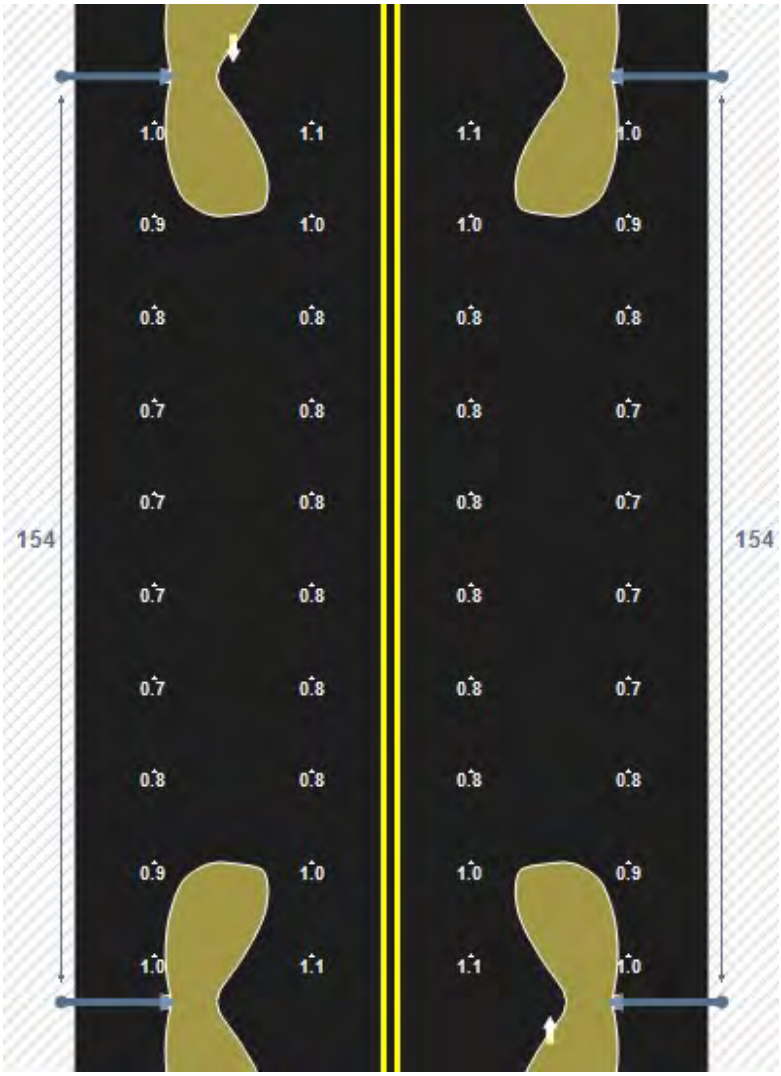

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	0.9	0.9	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

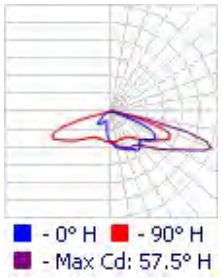
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	125 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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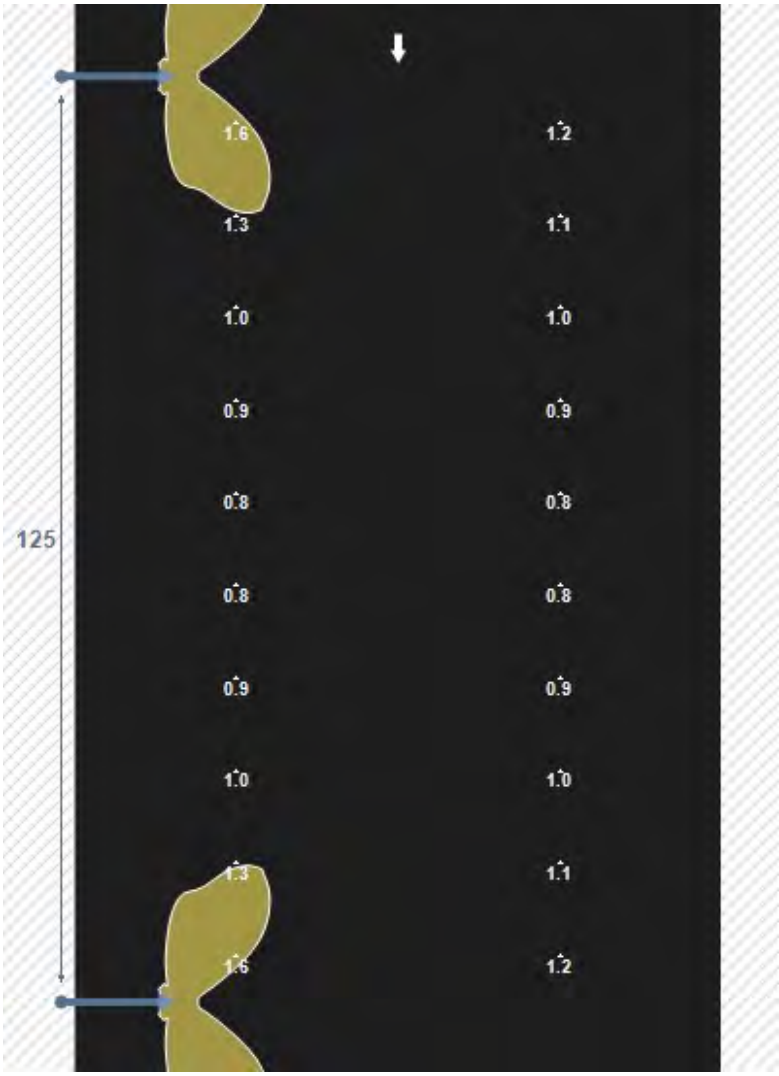

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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Your Email

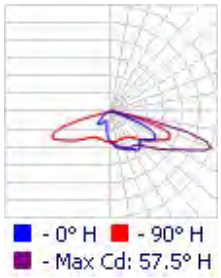
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

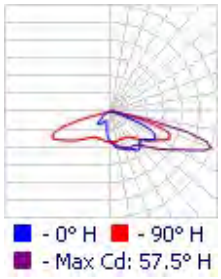
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	250 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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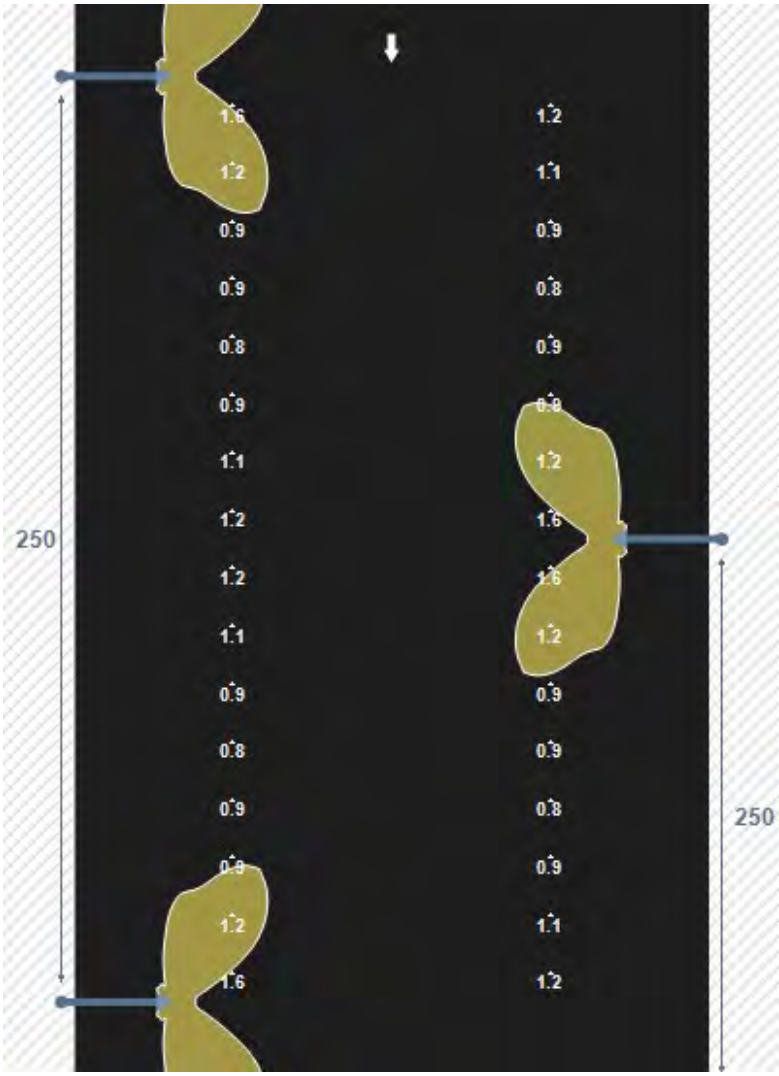

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

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Company Name
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Your Email

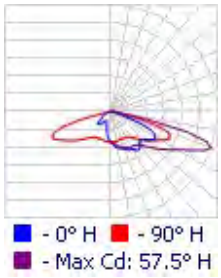
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

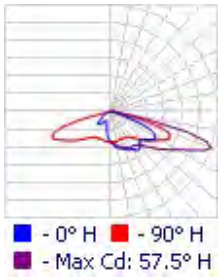
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.47 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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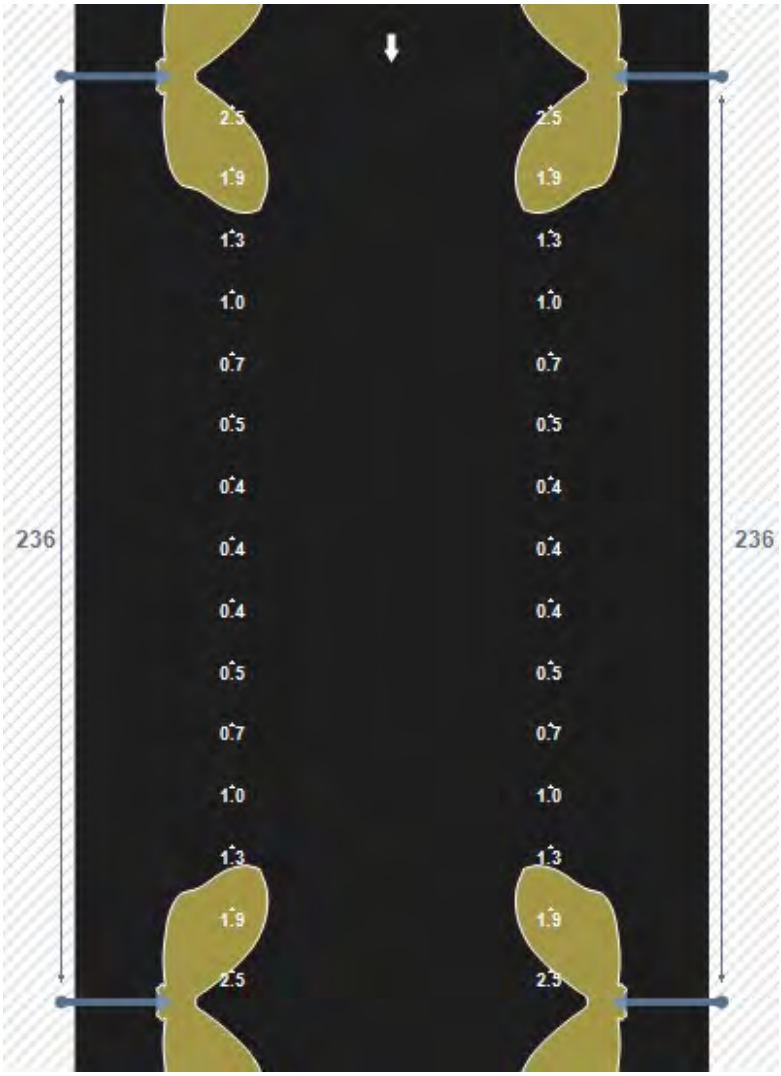

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

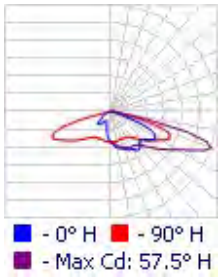
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	156.91 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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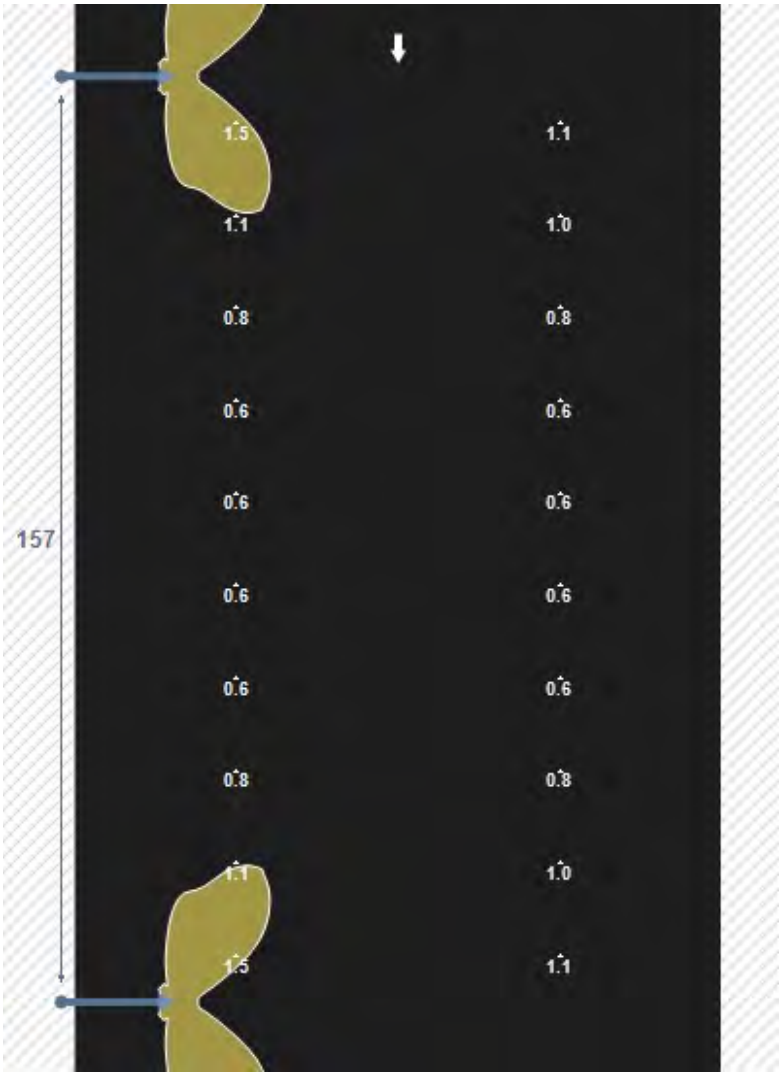

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.9	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

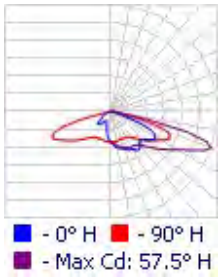
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

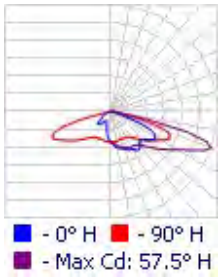
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	308.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	308.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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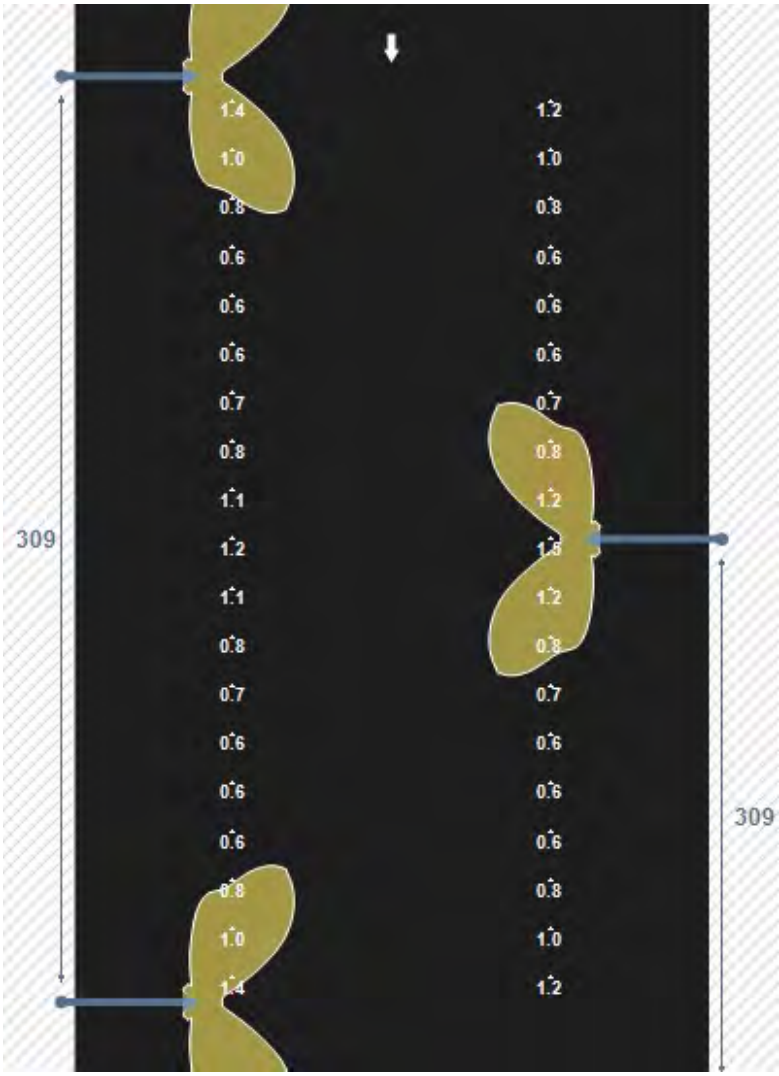

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.5	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	153.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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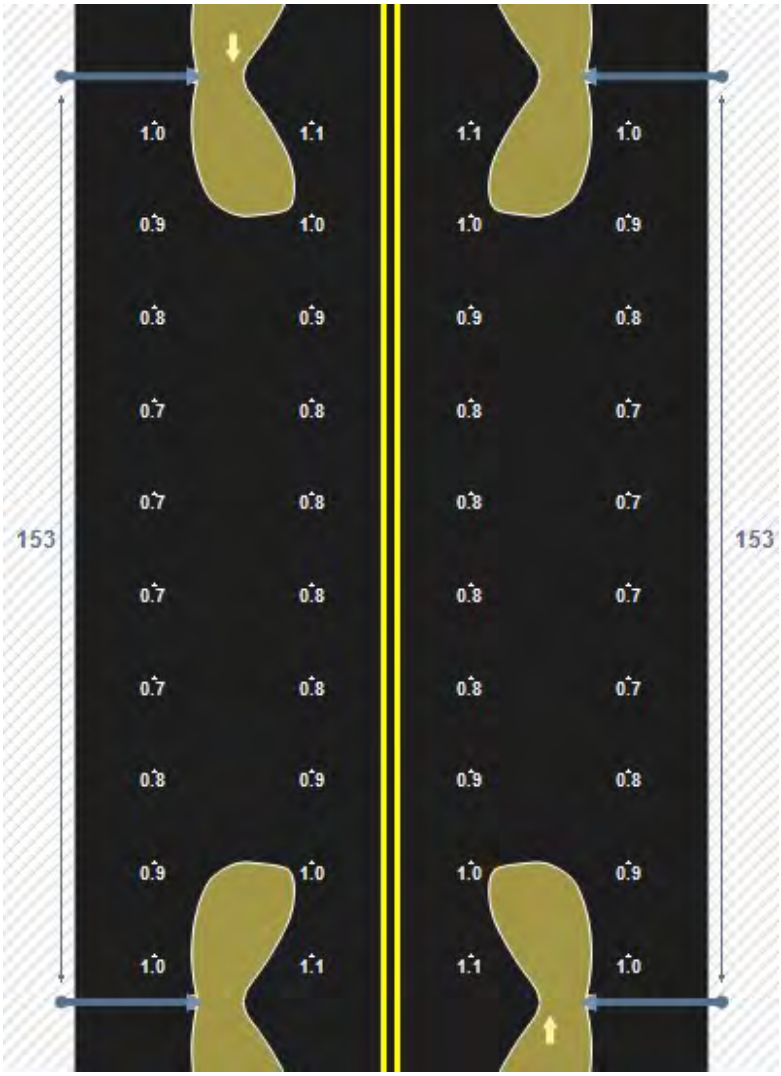

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	
Lv Ratio:	0.2	0.2	
STV:	1.7	1.7	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

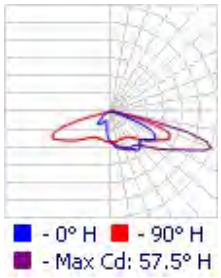
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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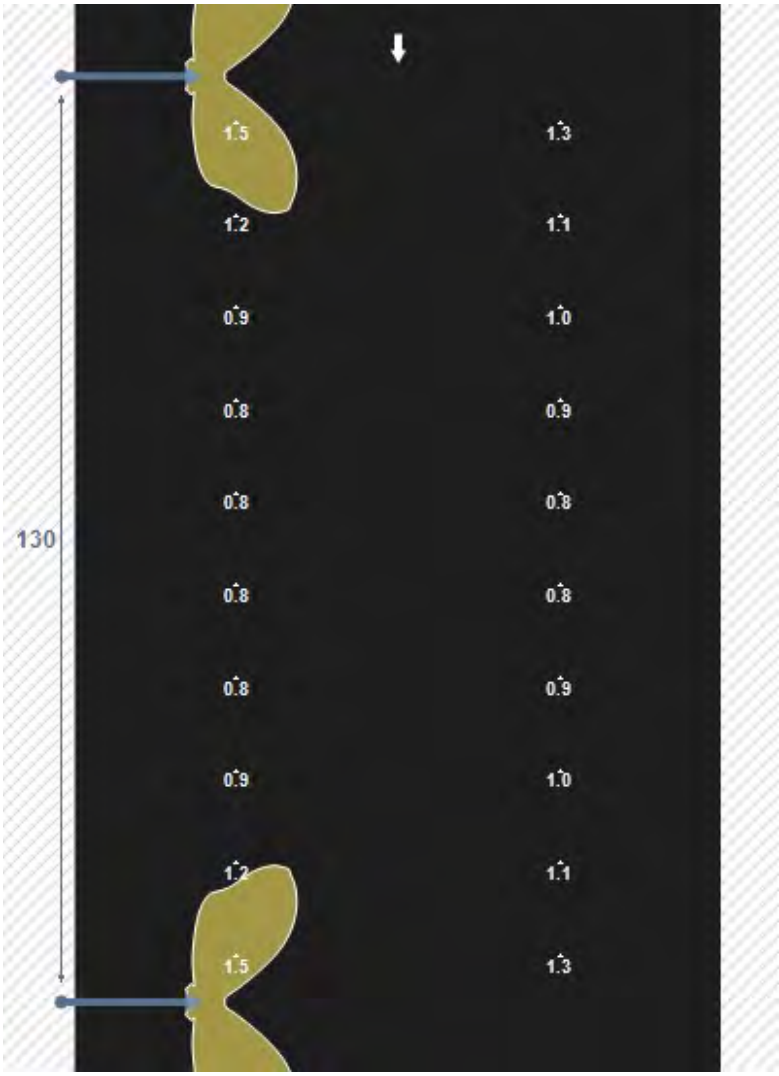

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.8	--	fc
Ave/Min:	1.4	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

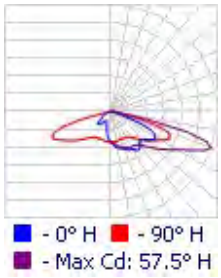
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

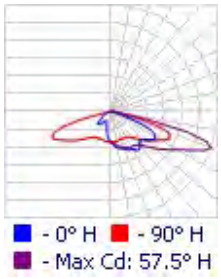
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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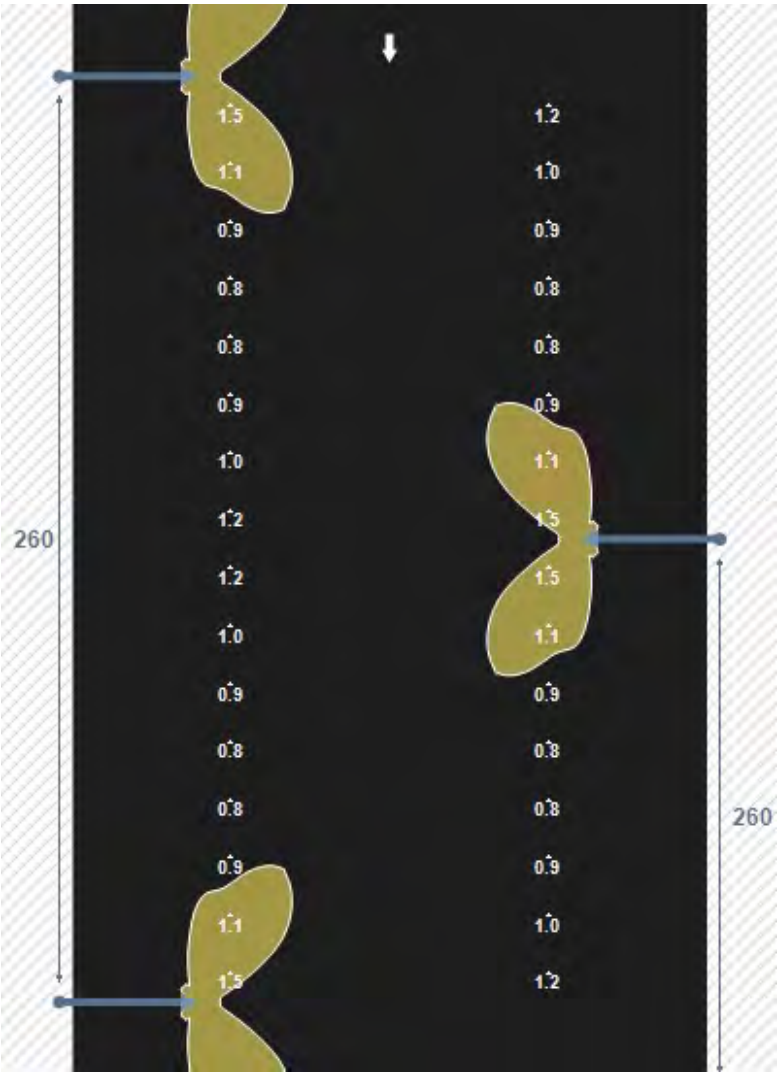

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.5	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

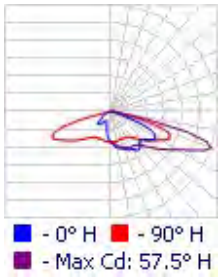
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

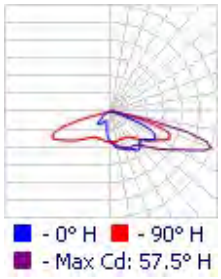
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.19 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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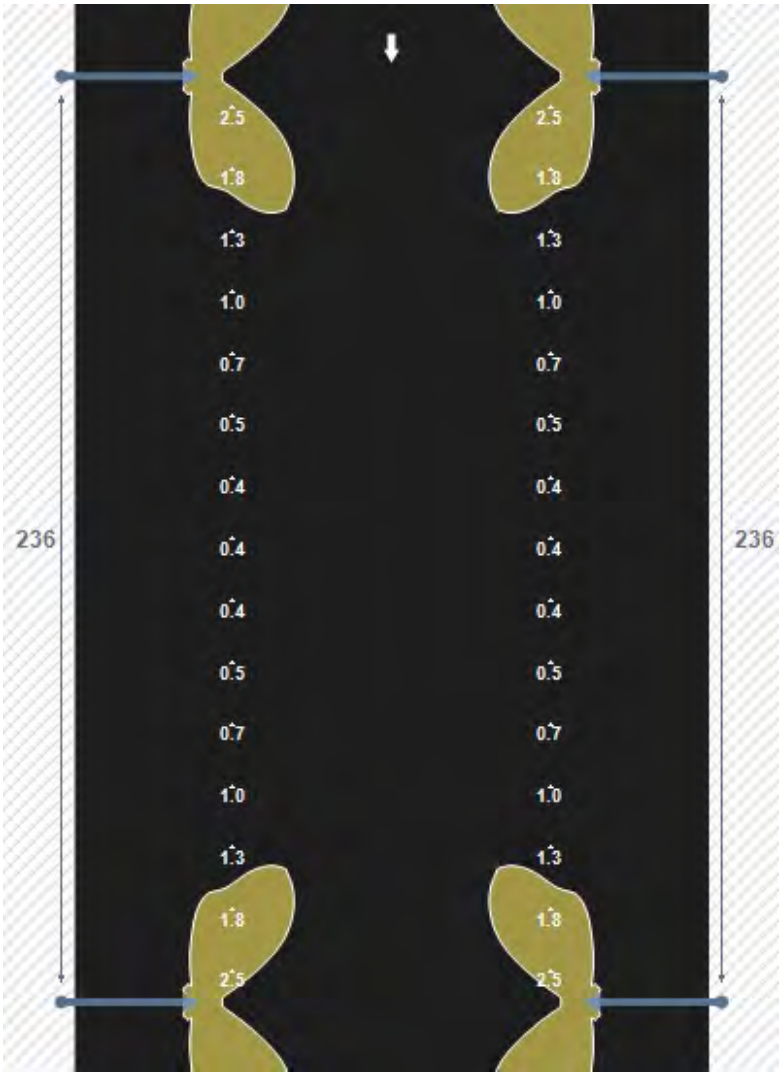

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

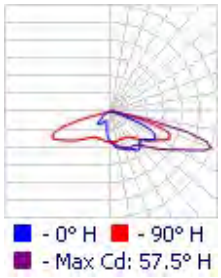
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	154.55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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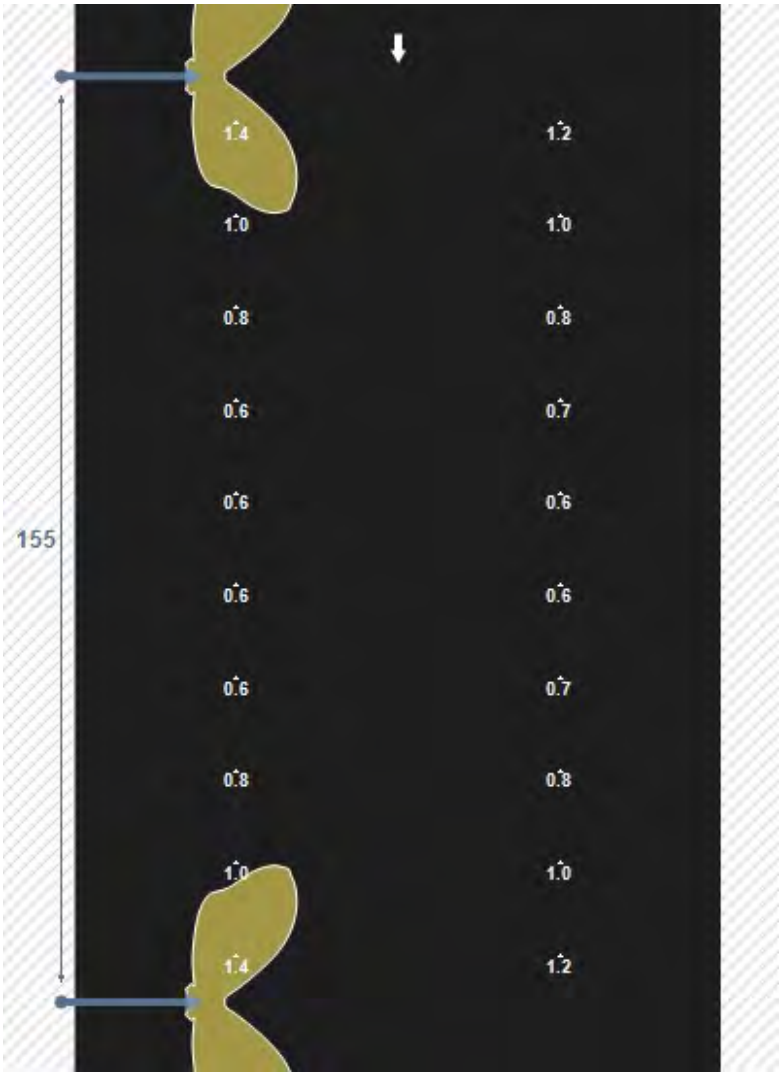

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.8	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Monday, May 17, 2021

Project Name
Project Description

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Company Name
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Your Email

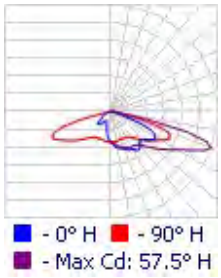
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

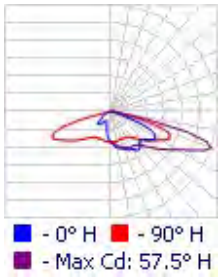
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	301.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	301.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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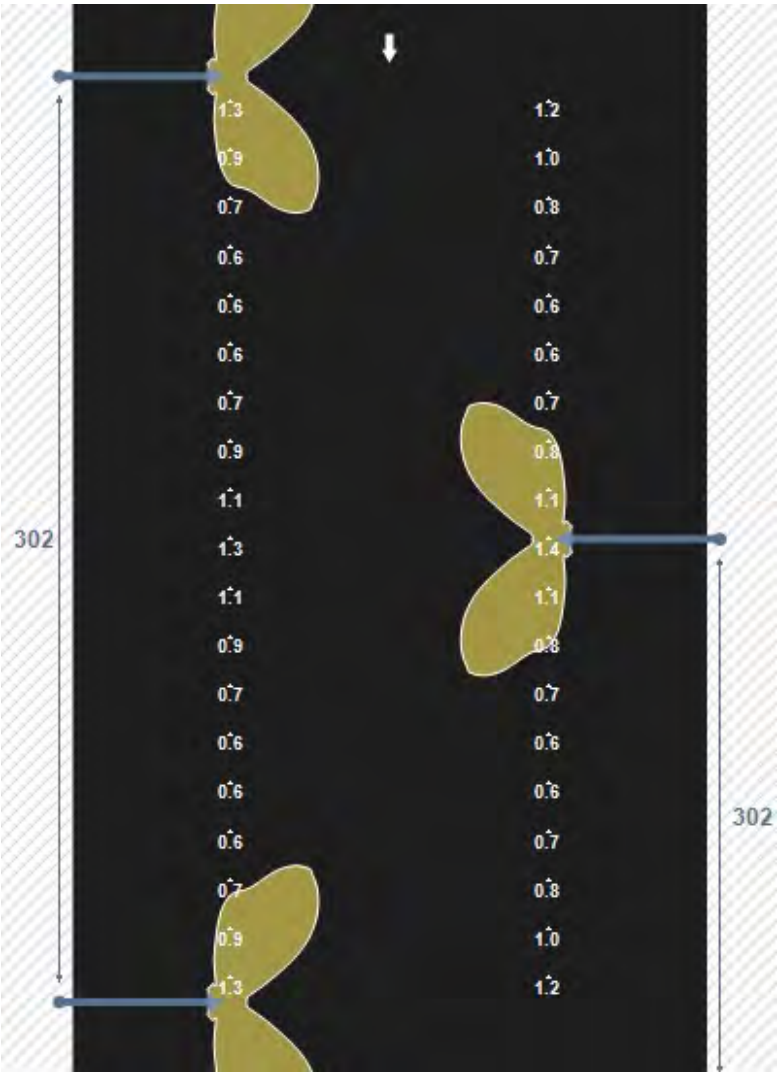

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

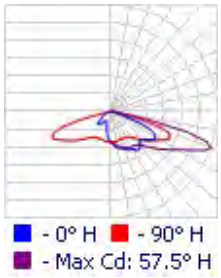
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	150.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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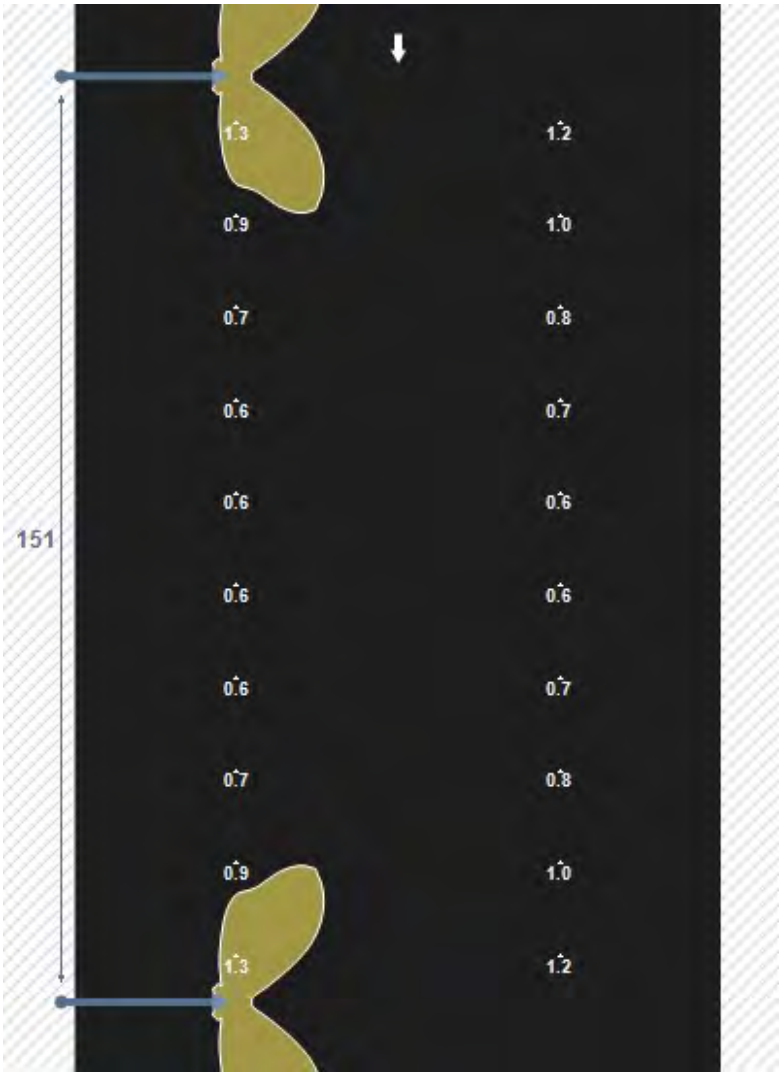

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.2	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.5	--	
Max/Min:	2.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	151.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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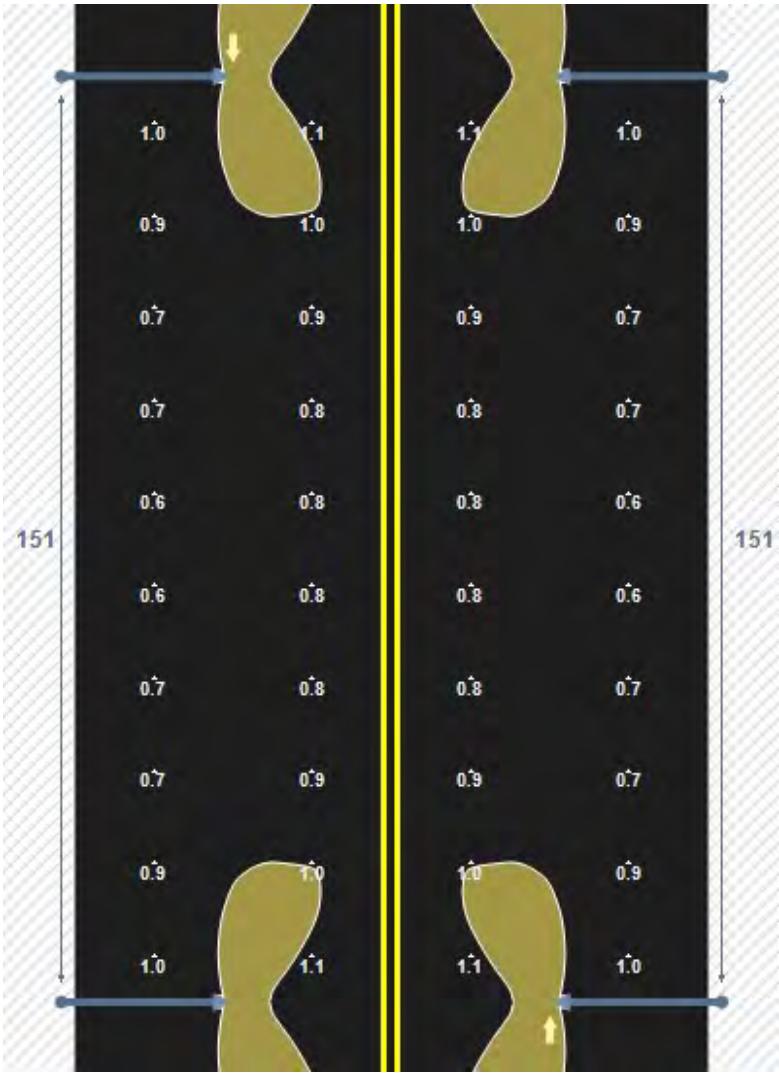

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1	1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.8	1.8	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.7	0.7	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.7	1.7	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

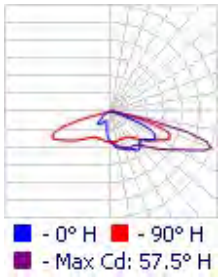
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

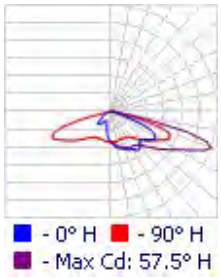
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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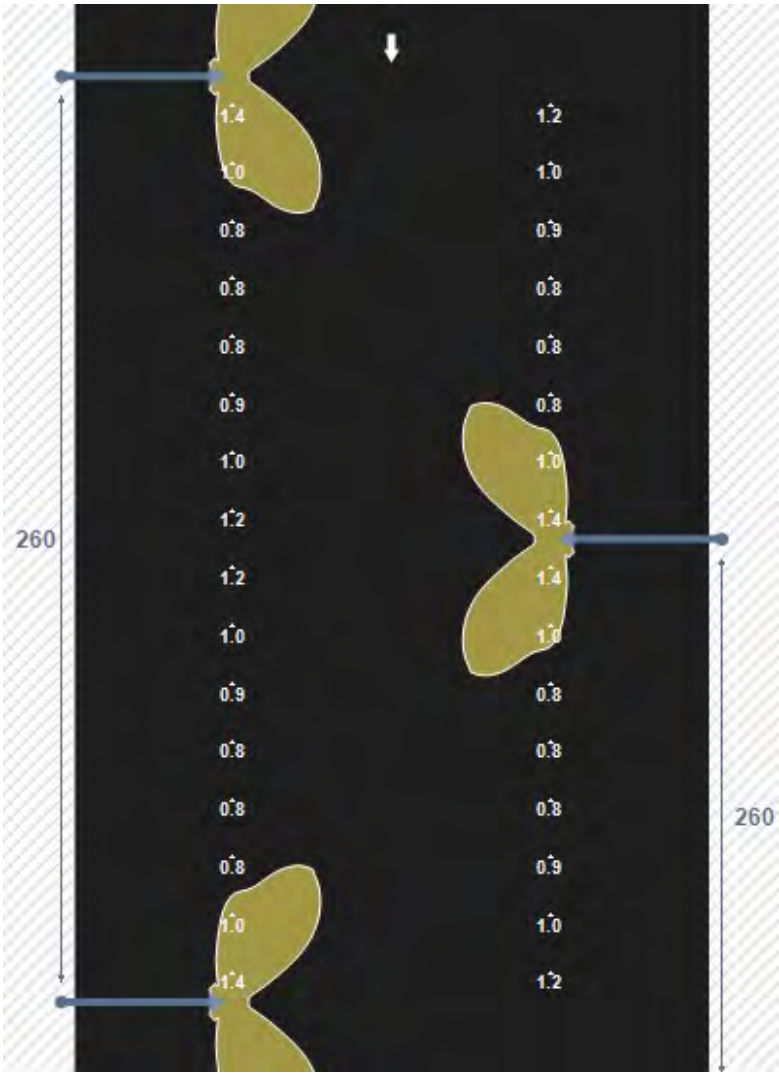

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

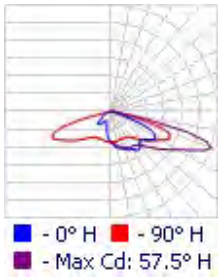
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

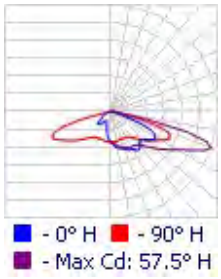
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.61 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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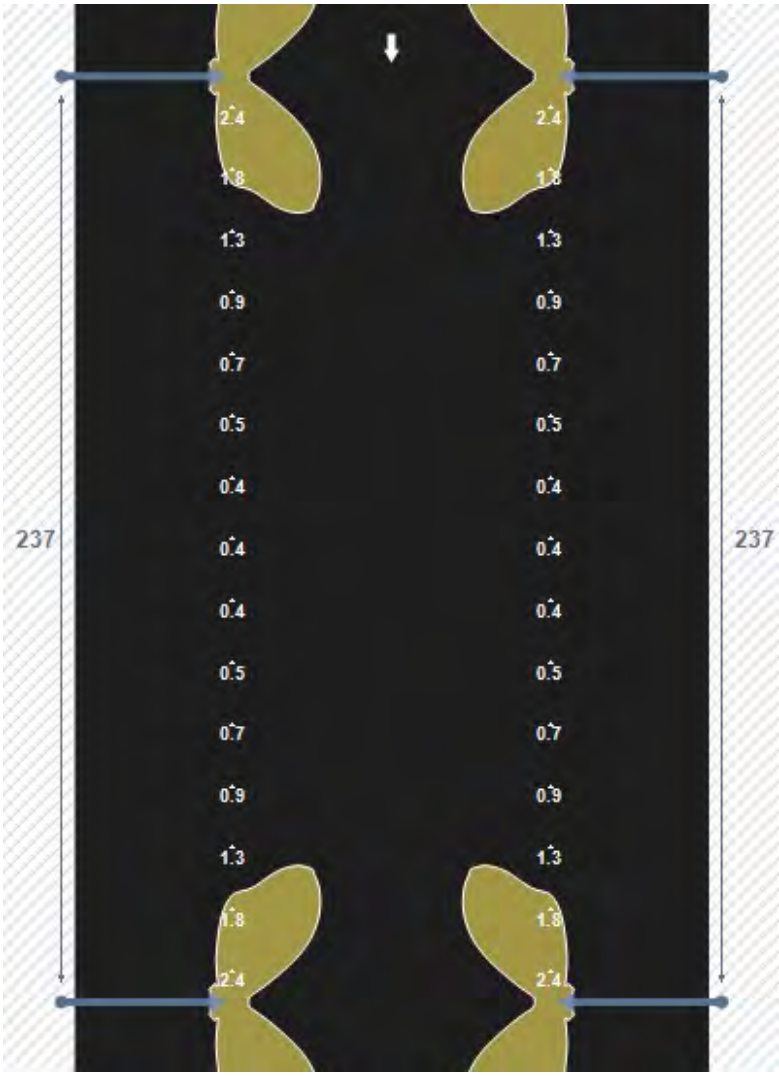

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.4	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

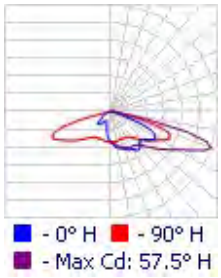
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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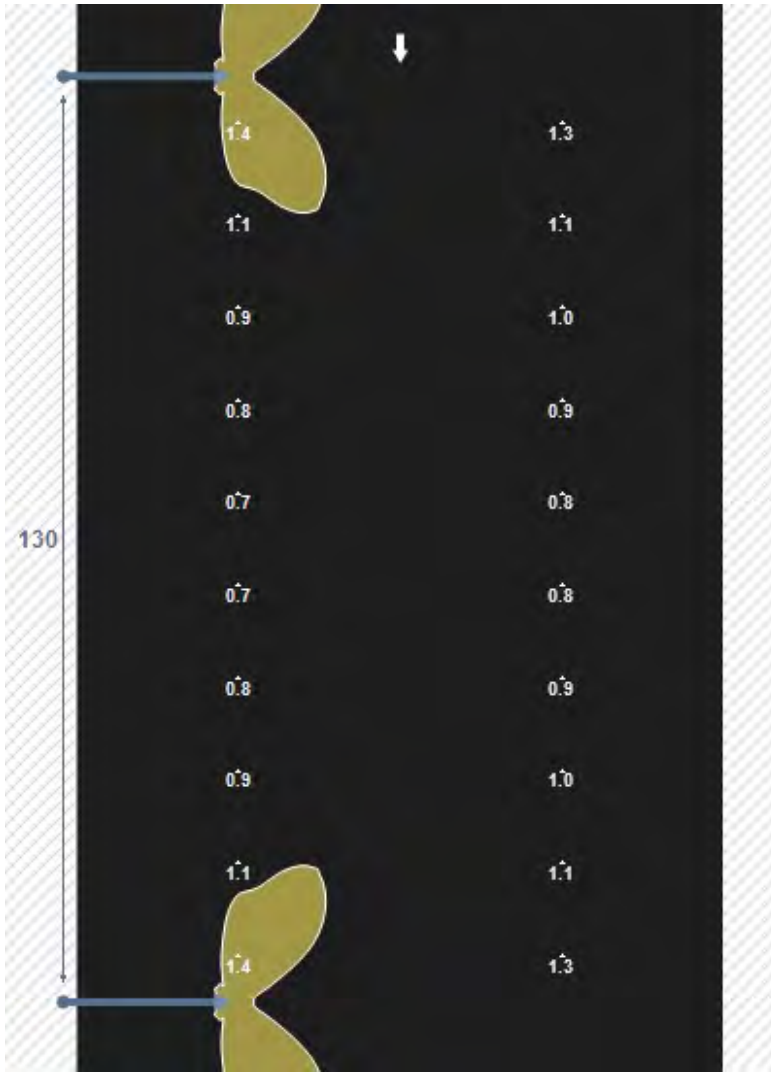

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.4	--	fc
Min	0.7	--	fc
Ave/Min:	1.4	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

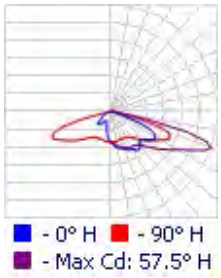
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

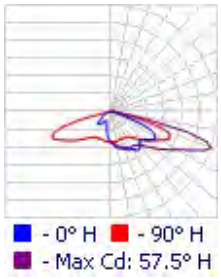
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	296.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	296.41 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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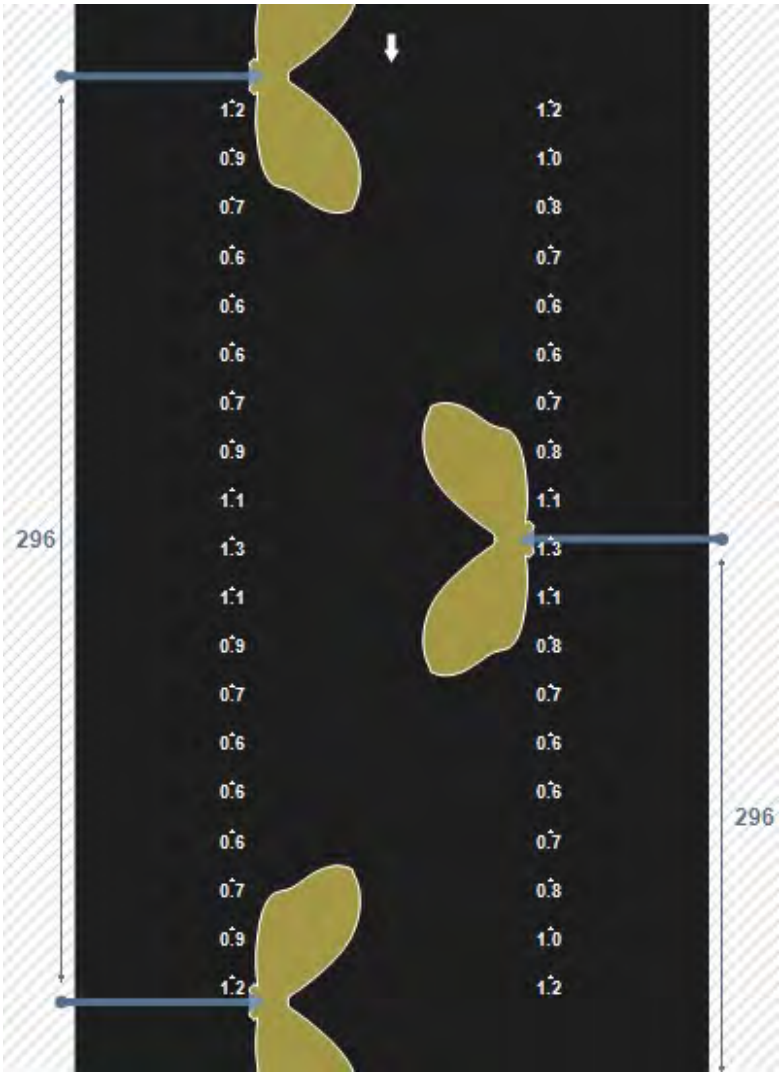
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.5	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	147.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	147.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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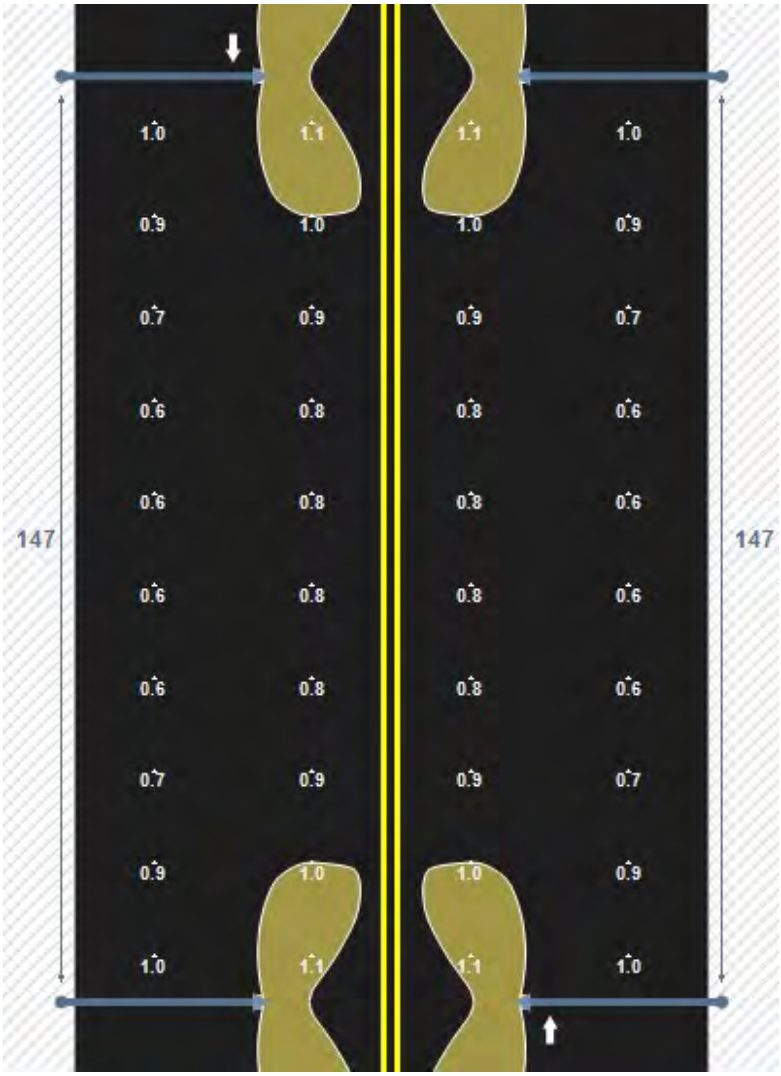
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	0.7	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.6	0.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	2	2	
Lv Ratio:	0.2	0.2	
STV:	1.6	1.6	

Illuminance	Left	Right	
Average:	0.9	0.9	fc
Max:	1.1	1.1	fc
Min	0.6	0.6	fc
Ave/Min:	1.4	1.4	
Max/Min:	1.8	1.8	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

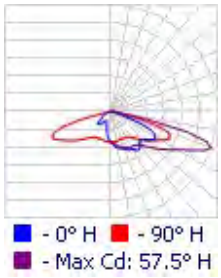
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	148.38 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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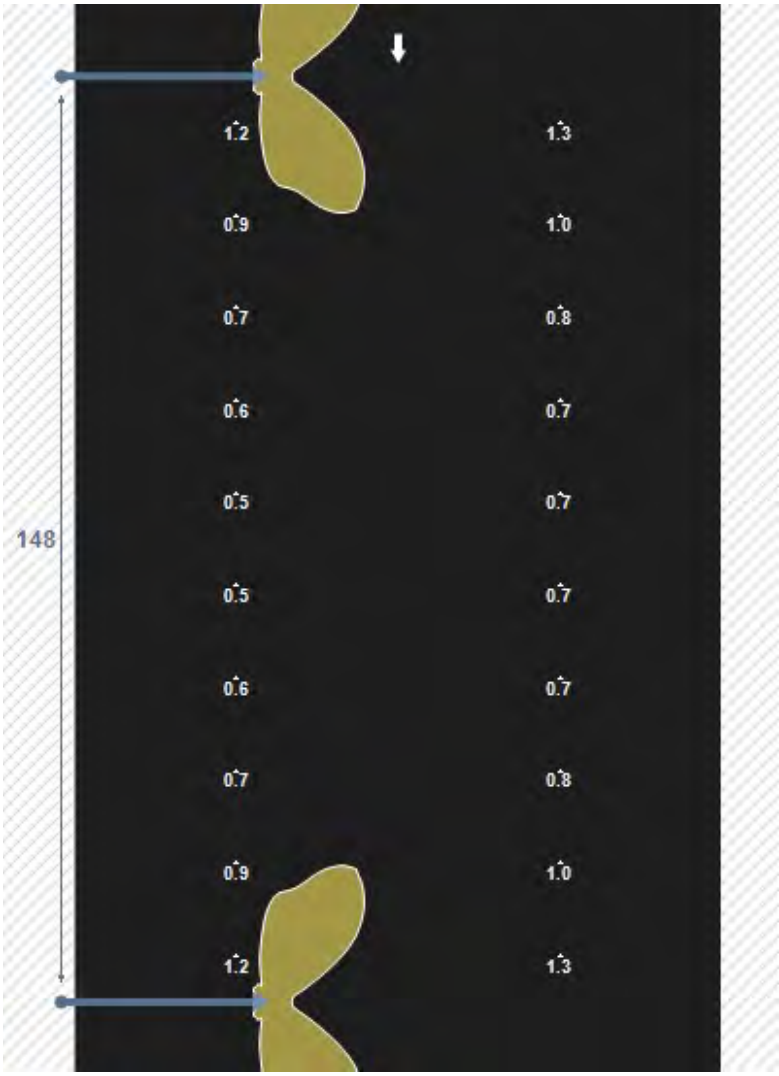

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

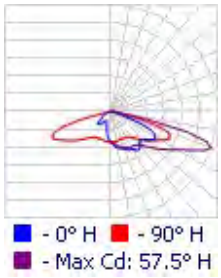
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (8 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

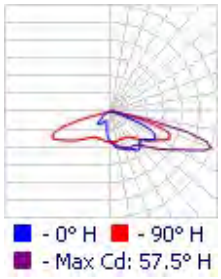
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	260 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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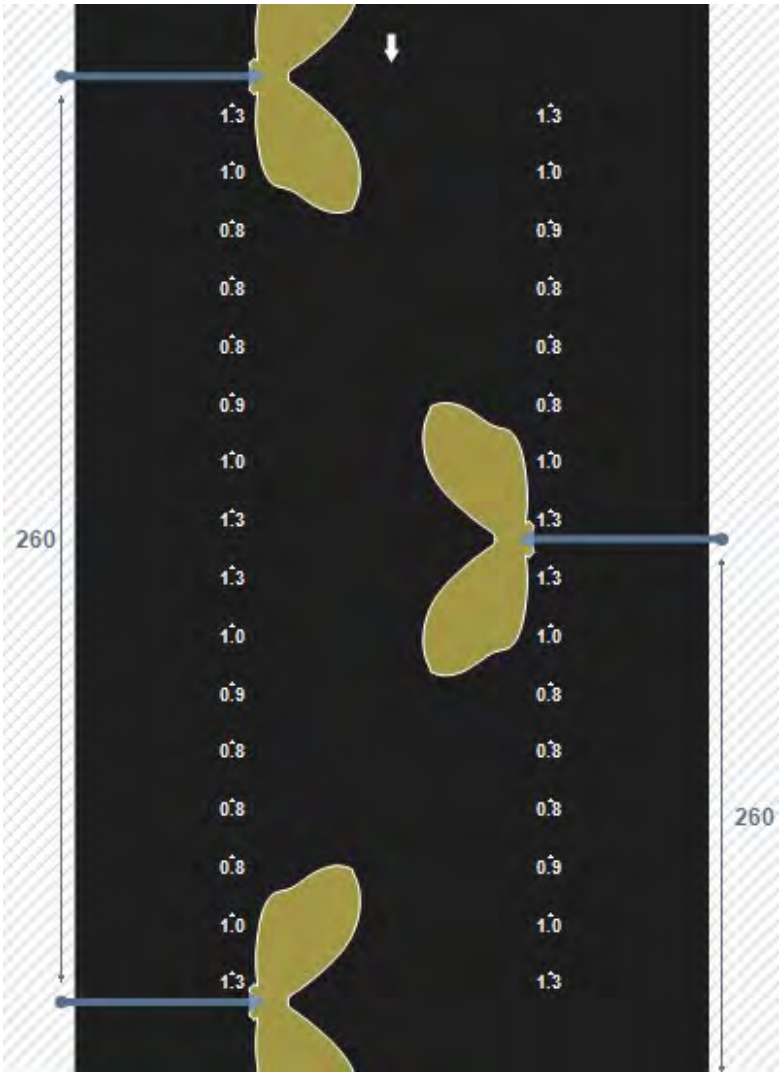

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	0.9	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1	--	fc
Max:	1.3	--	fc
Min	0.8	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

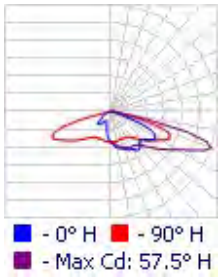
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

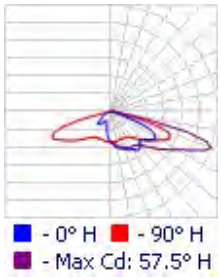
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	234 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	234 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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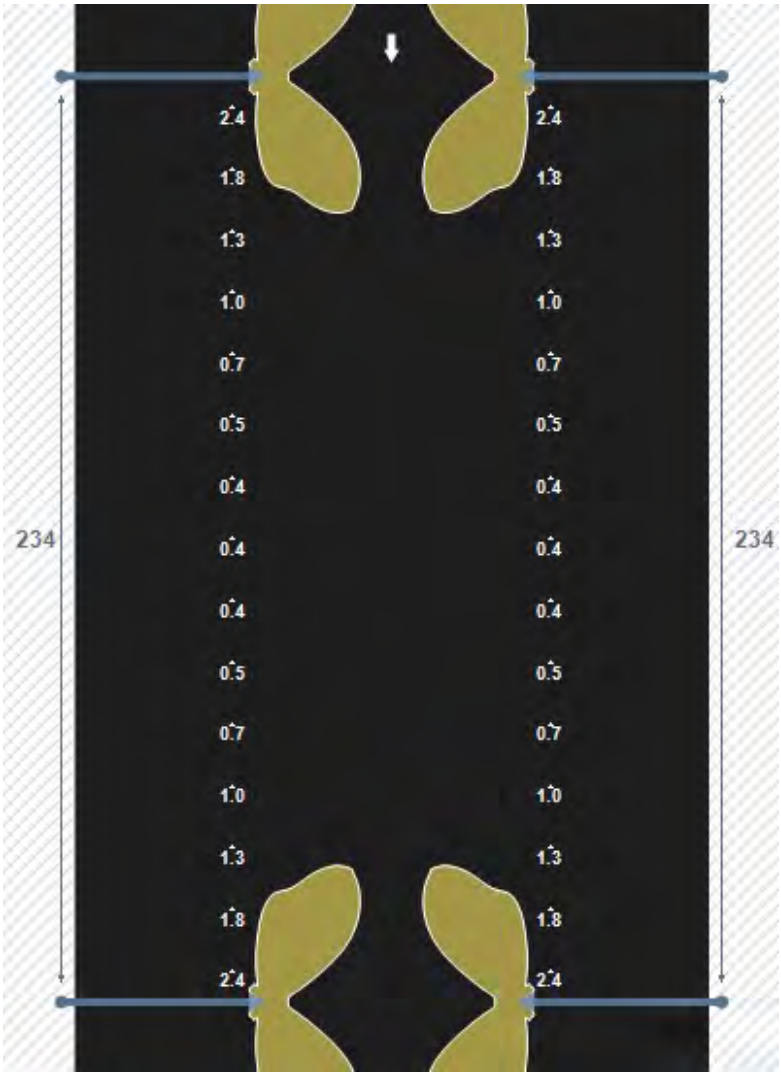

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.1	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	2.4	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

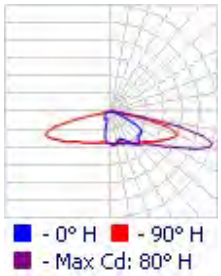
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

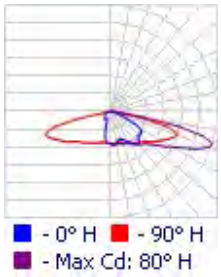
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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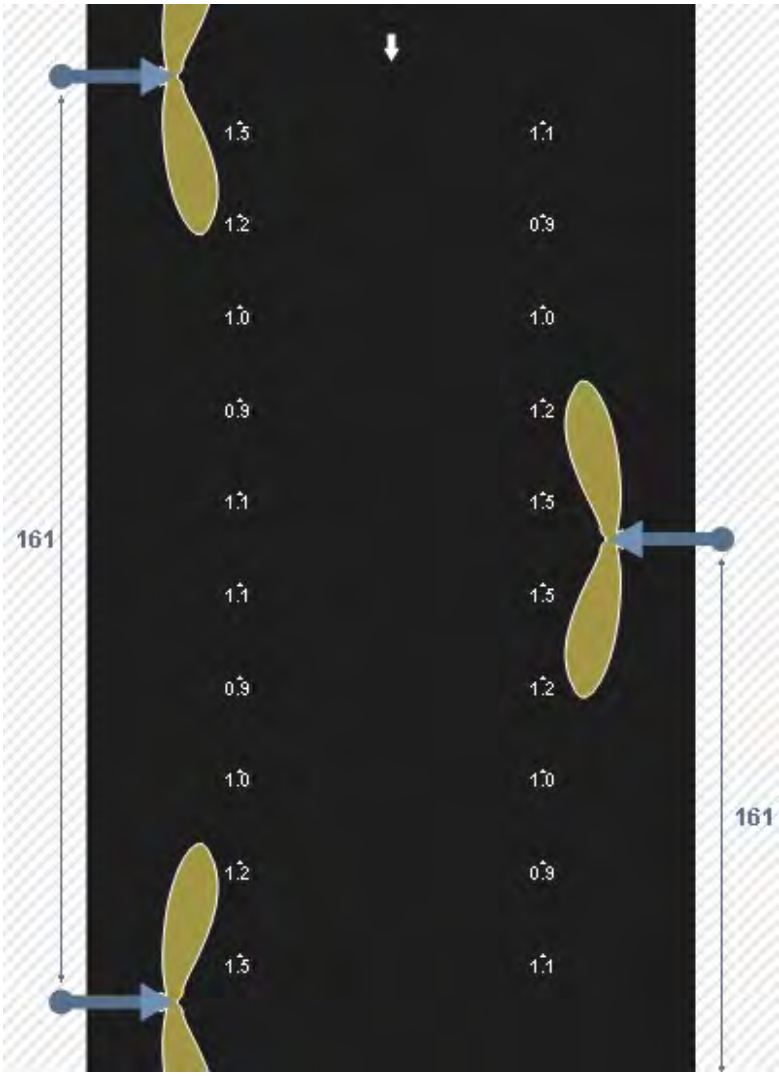

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.8	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

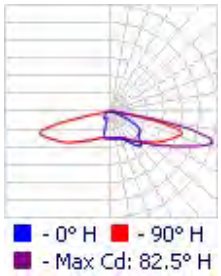
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

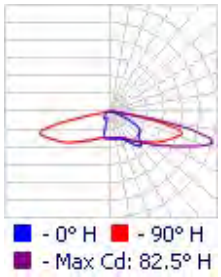
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	88.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	88.27 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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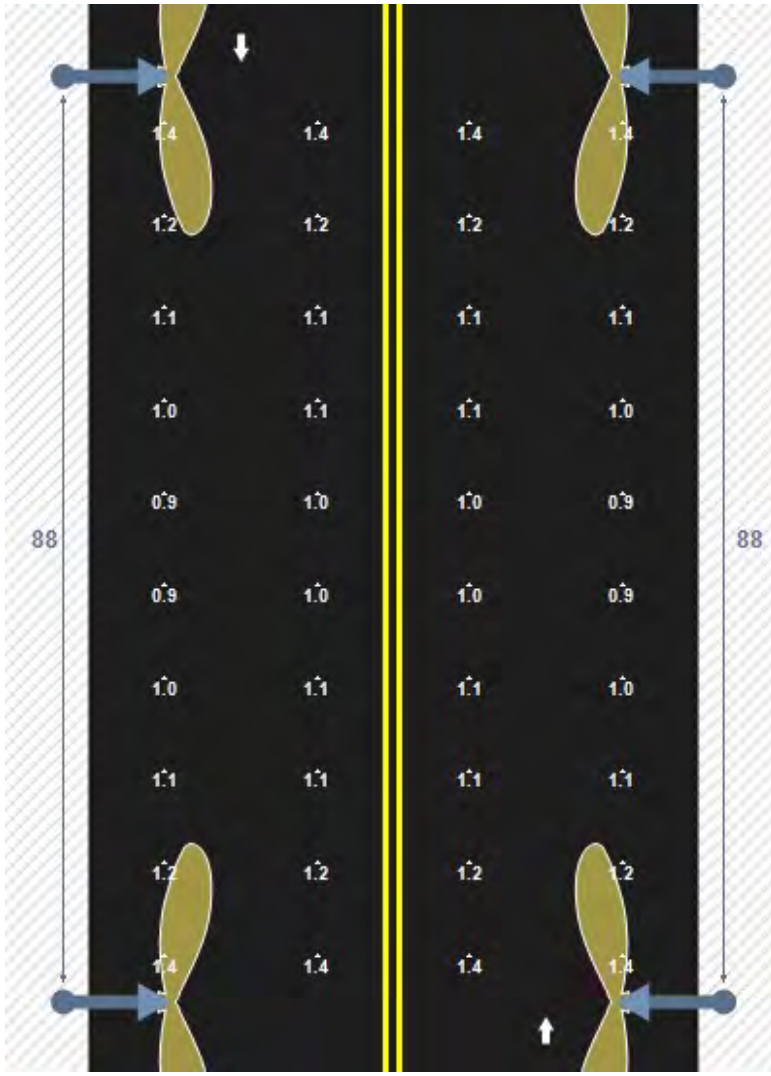

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.3	1.3	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

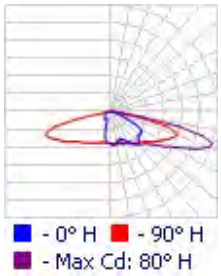
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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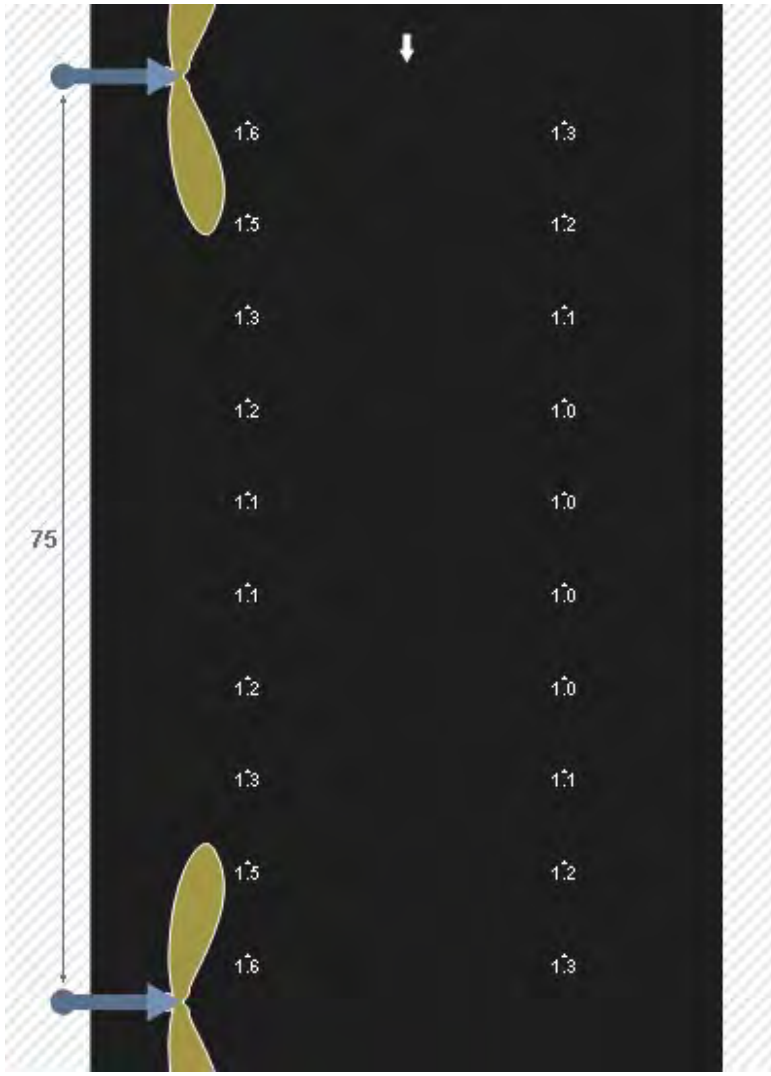

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

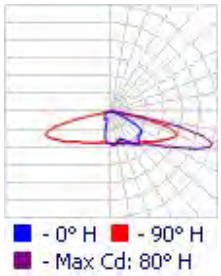
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

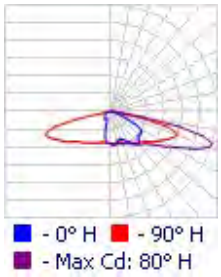
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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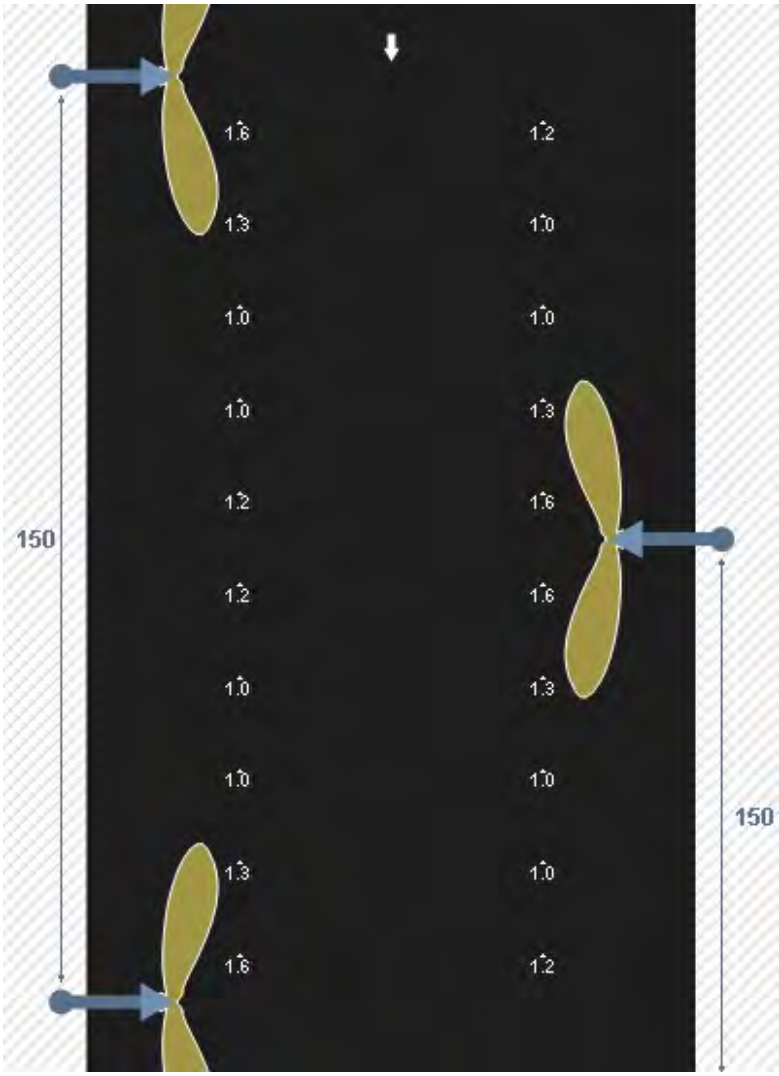

Illuminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	1.2	--	cd/m²	Average:	1.2	--	fc	Average:	--	--	fc
Max:	1.2	--	cd/m²	Max:	1.6	--	fc	Min	--	--	fc
Min	1.1	--	cd/m²	Min	1	--	fc	Ave/Min:	--	--	
Ave/Min:	1.1	--		Ave/Min:	1.2	--		Ev Min:	--	--	fc
Max/Min:	1.1	--		Max/Min:	1.6	--		**Bikelane**			
Lv Ratio:	0.2	--						Average:	--	--	fc
STV:	0.7	--						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

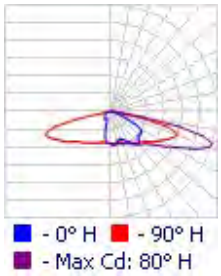
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

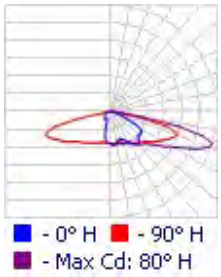
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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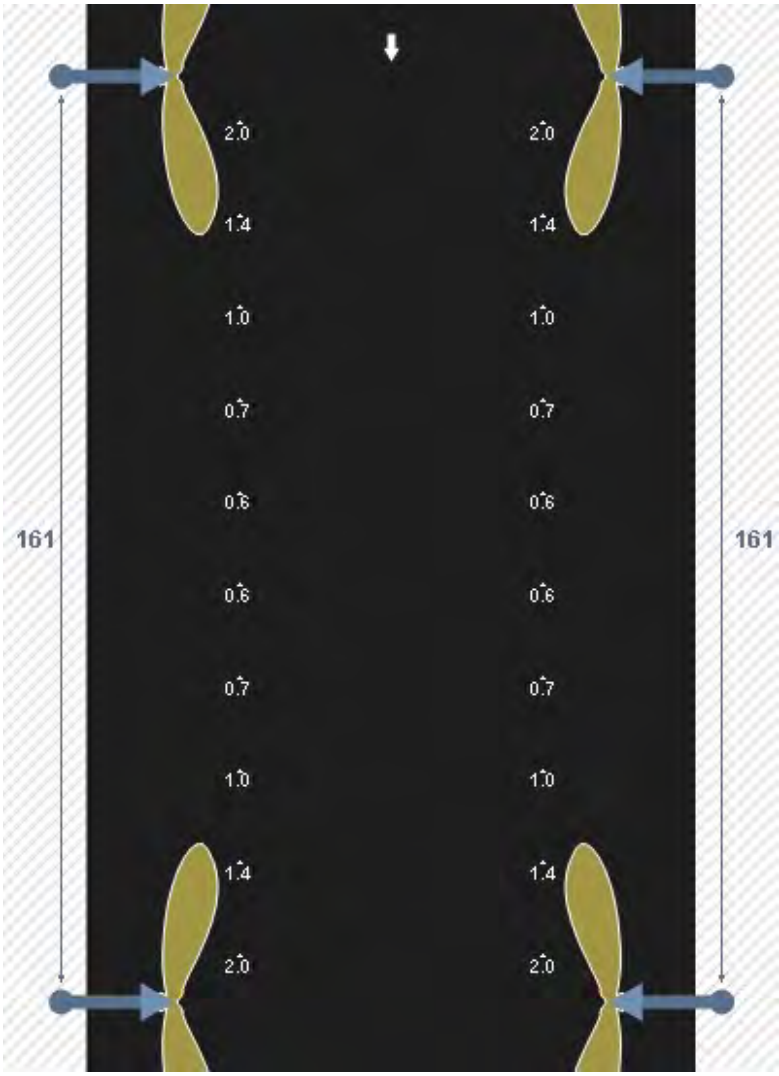

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.2	--	
STV:	2.4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2	--	fc
Min	0.6	--	fc
Ave/Min:	1.9	--	
Max/Min:	3.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

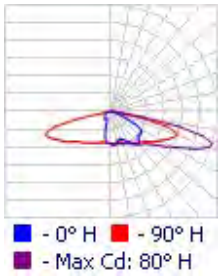
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	80.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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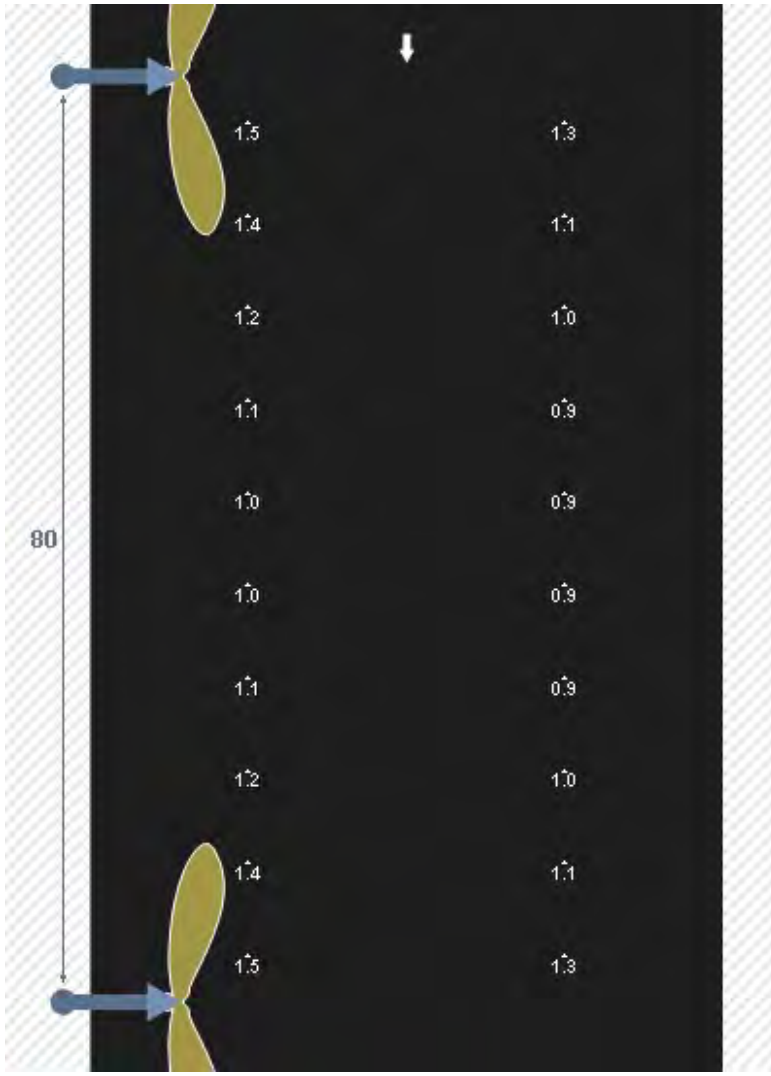

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

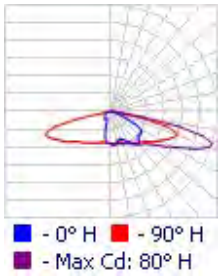
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

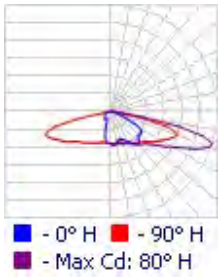
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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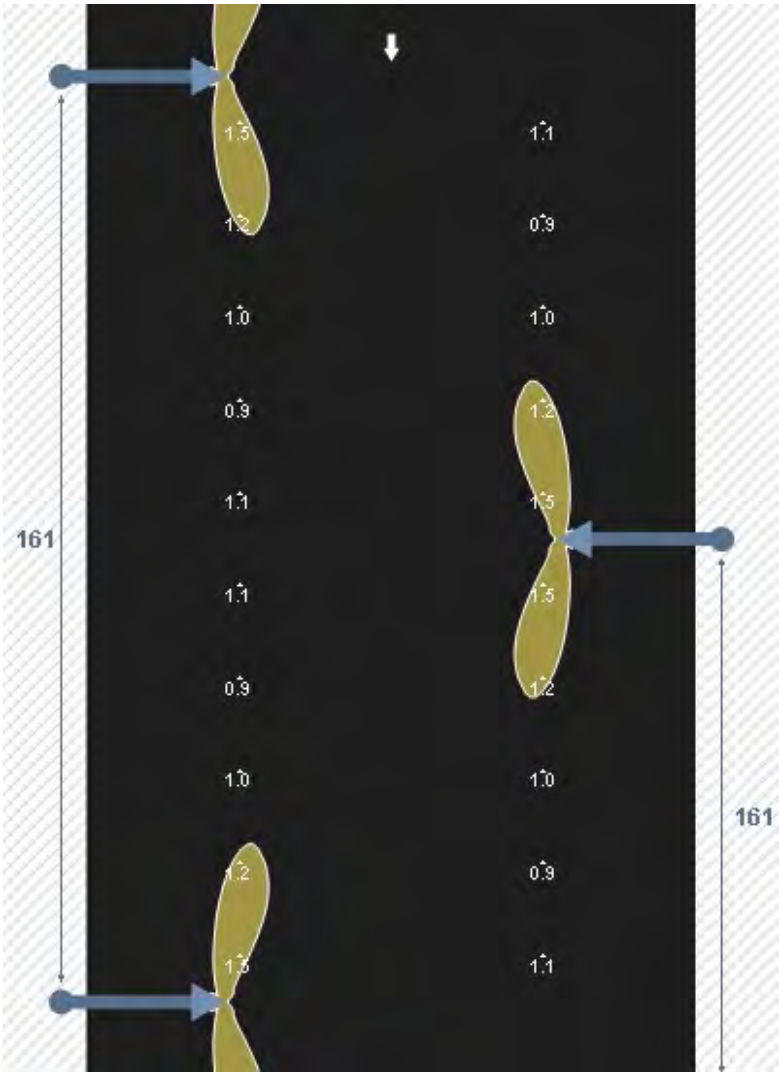

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1.1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.1	--	
Lv Ratio:	0.1	--	
STV:	0.8	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

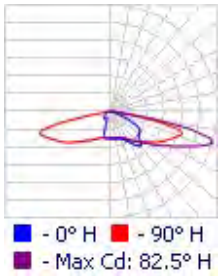
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

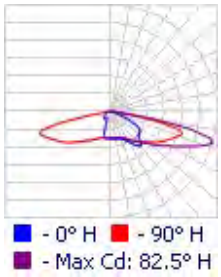
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	88.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	88.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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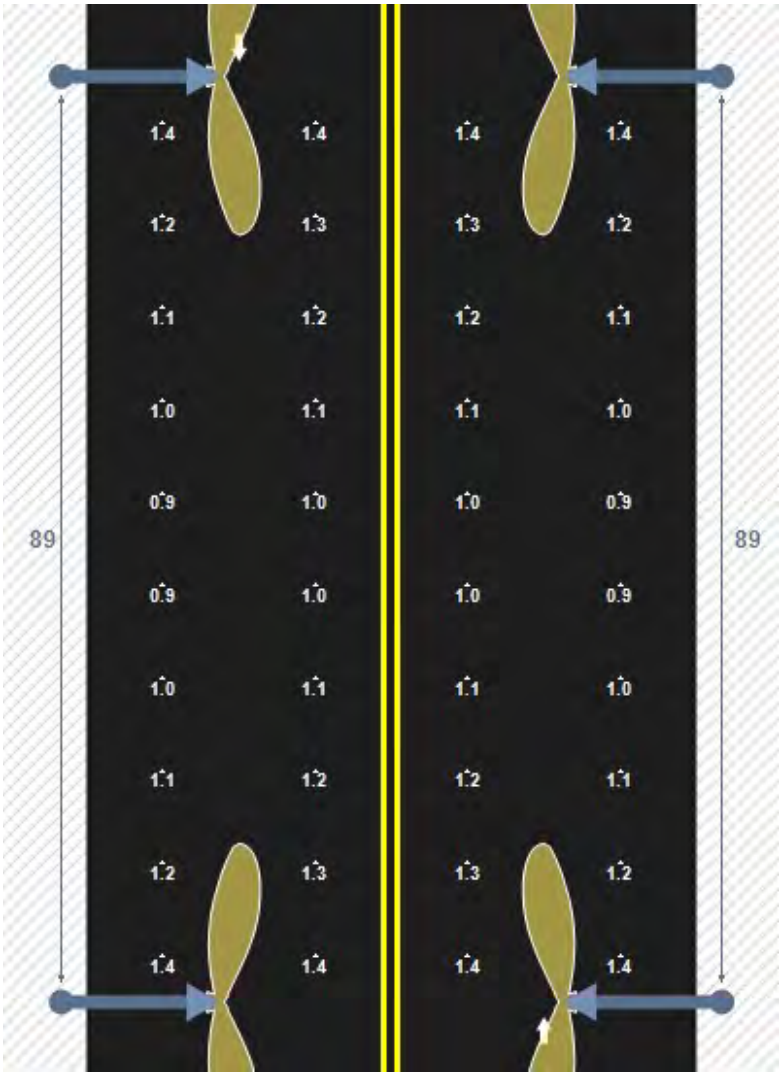

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.3	1.3	cd/m²
Min	1.1	1.1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

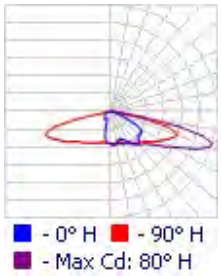
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	75 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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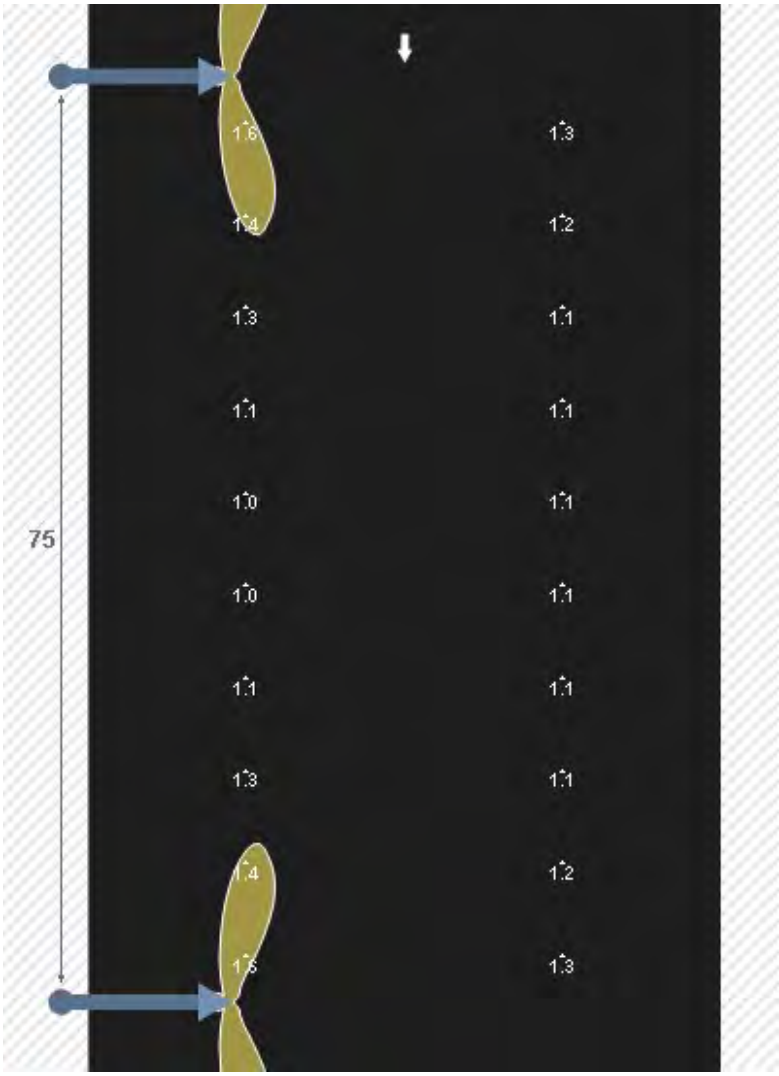

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.4	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

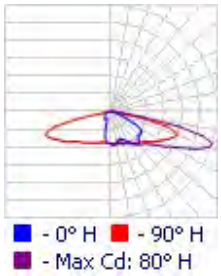
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

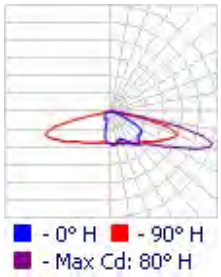
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	150 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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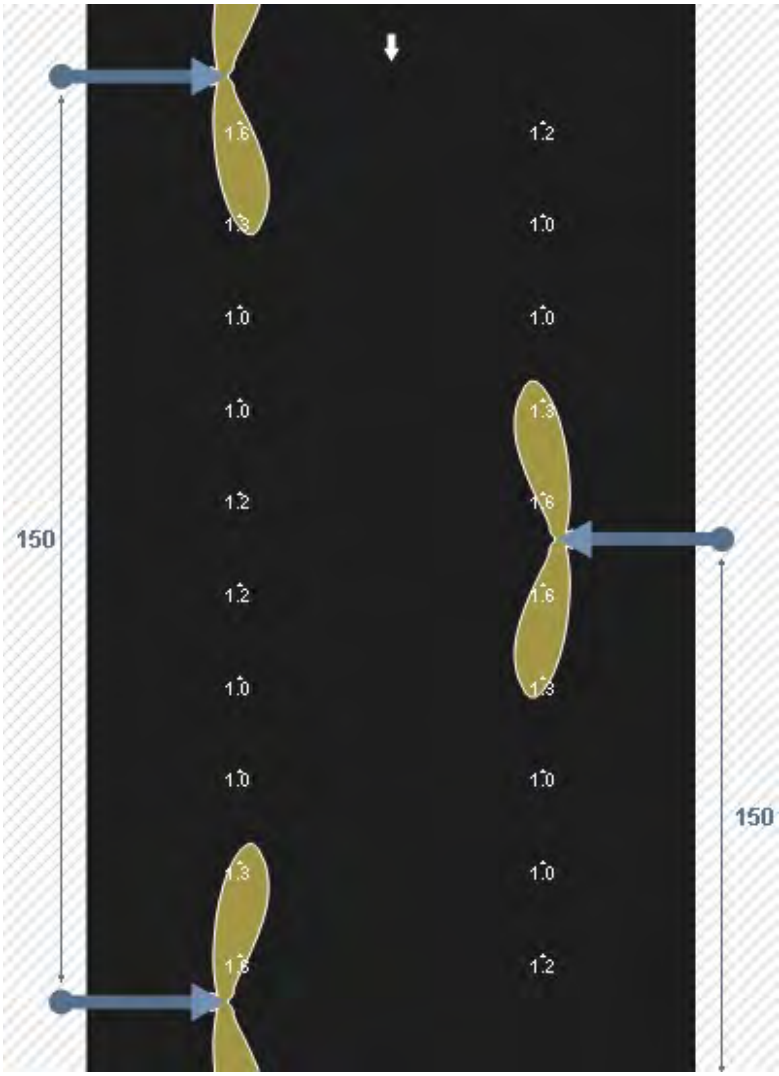

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.3	--	cd/m²
Min	1.2	--	cd/m²
Ave/Min:	1	--	
Max/Min:	1.1	--	
Lv Ratio:	0.1	--	
STV:	0.7	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

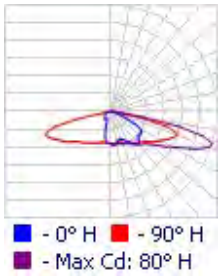
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

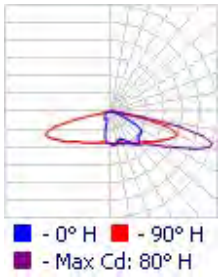
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	161.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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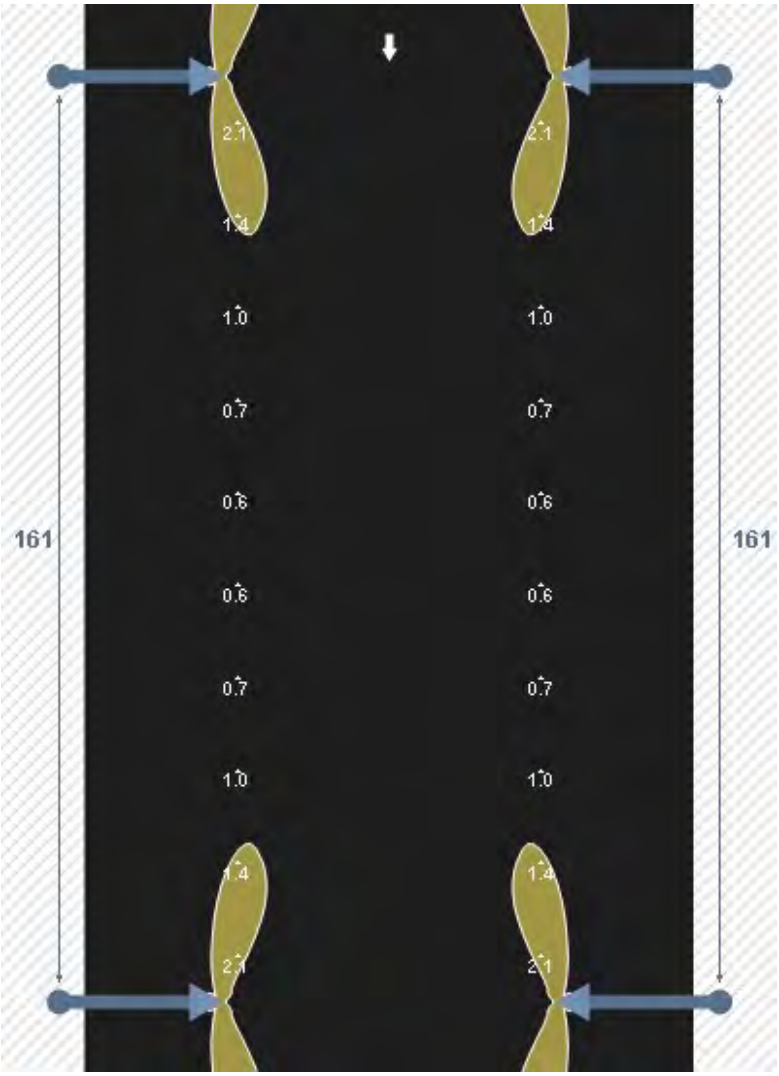

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.2	--	
STV:	2.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.1	--	fc
Min	0.6	--	fc
Ave/Min:	1.9	--	
Max/Min:	3.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

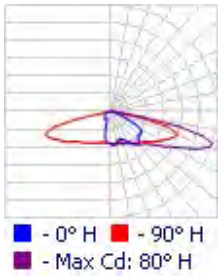
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	80.64 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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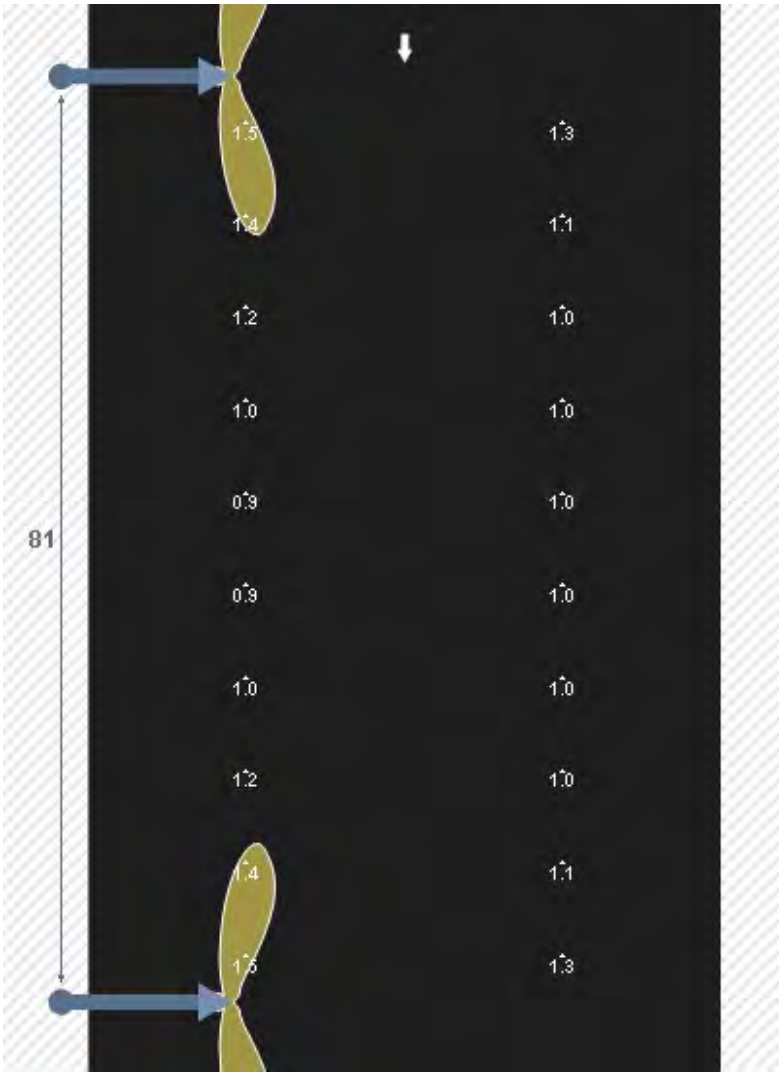

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

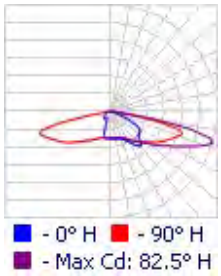
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 12 ft	Right: 12 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

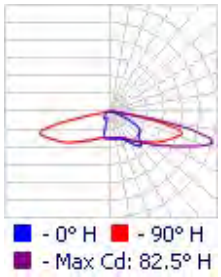
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	88.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	88.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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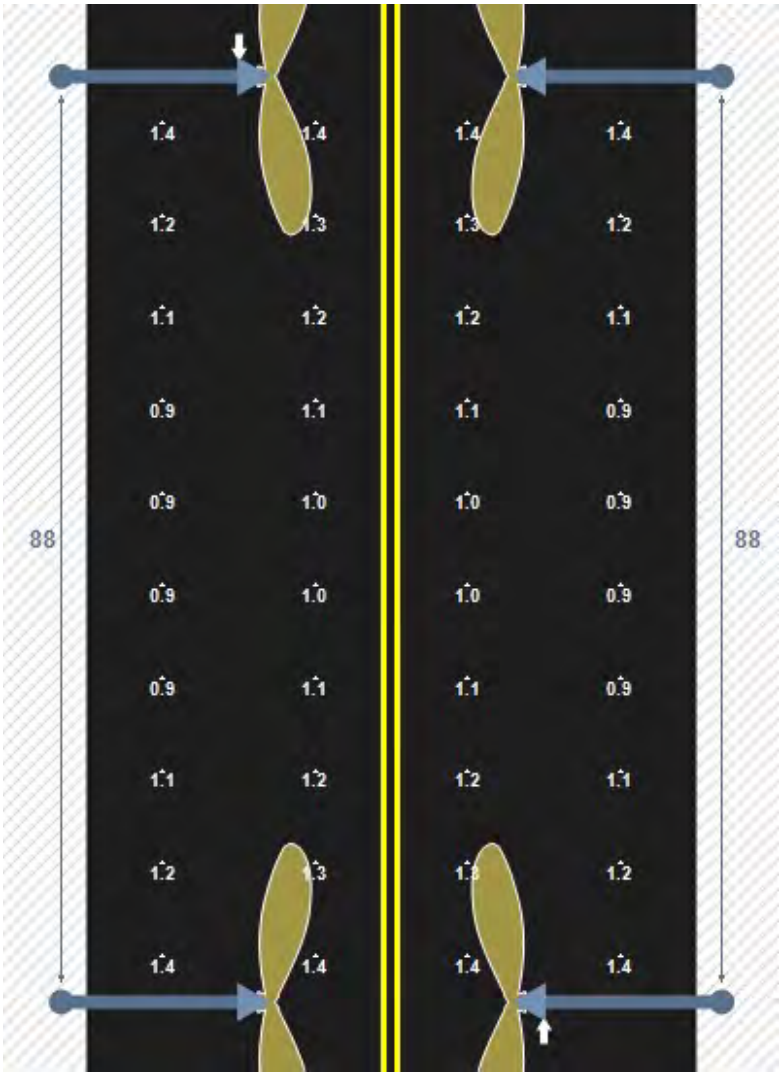

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	1.2	cd/m²
Max:	1.4	1.4	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

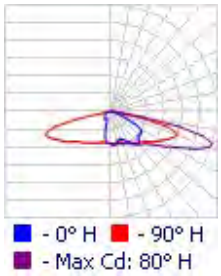
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	80 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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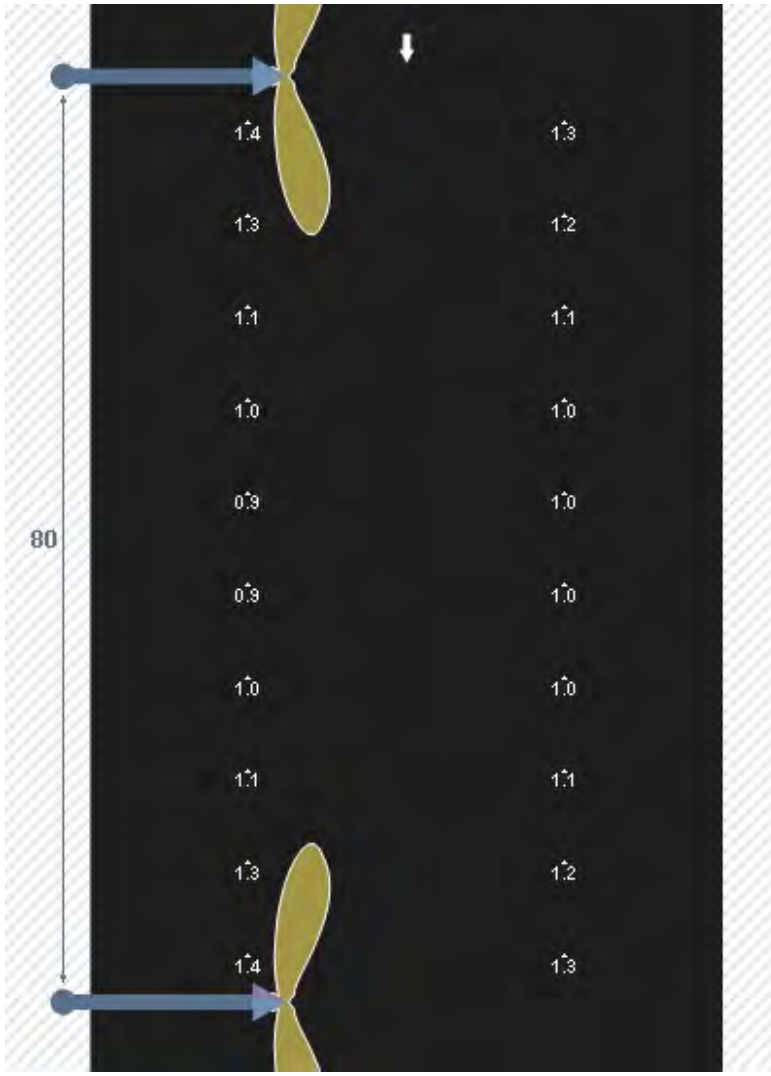

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.4	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

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Company Name
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Your Email

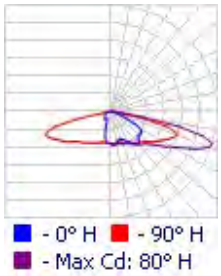
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

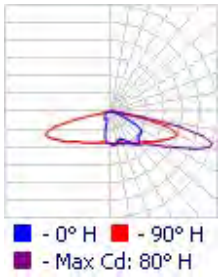
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	160 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	160 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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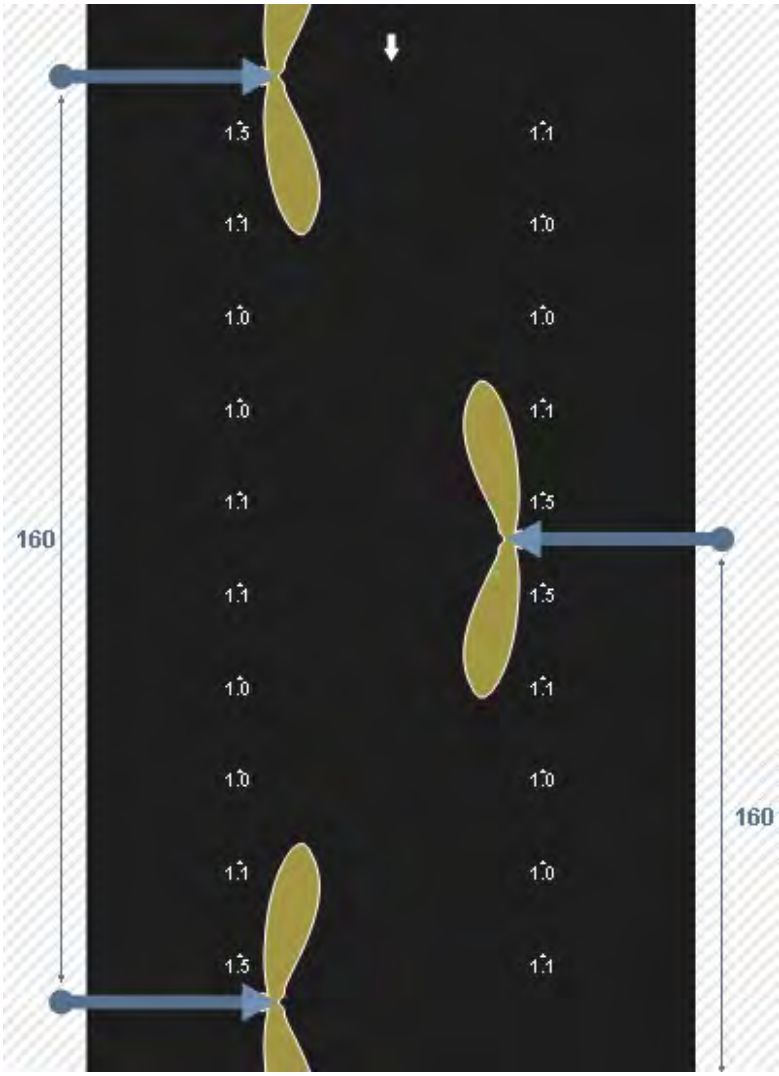

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.9	--	

Illuminance	Left	Right	
Average:	1.1	--	fc
Max:	1.5	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

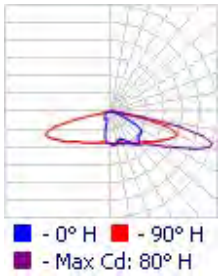
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

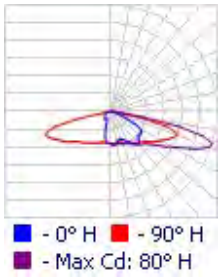
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	158.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	158.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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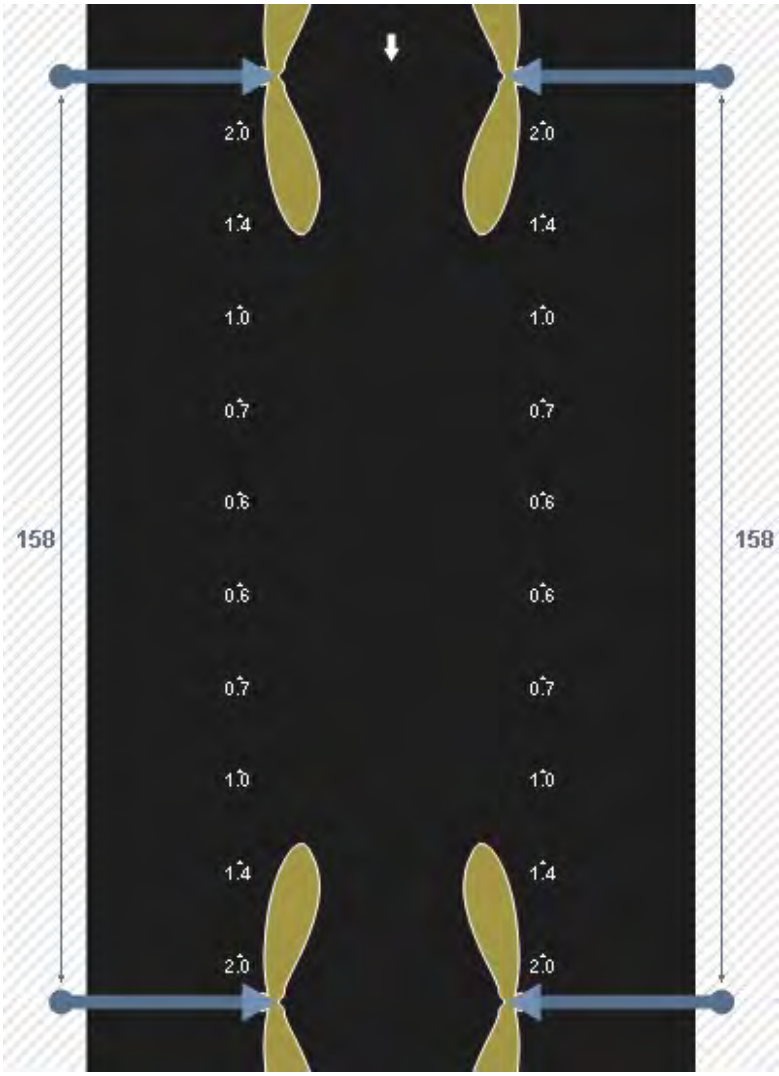

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	2.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2	--	fc
Min	0.6	--	fc
Ave/Min:	1.9	--	
Max/Min:	3.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

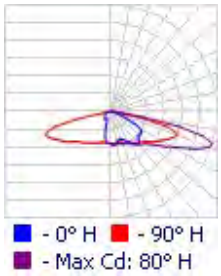
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	78.88 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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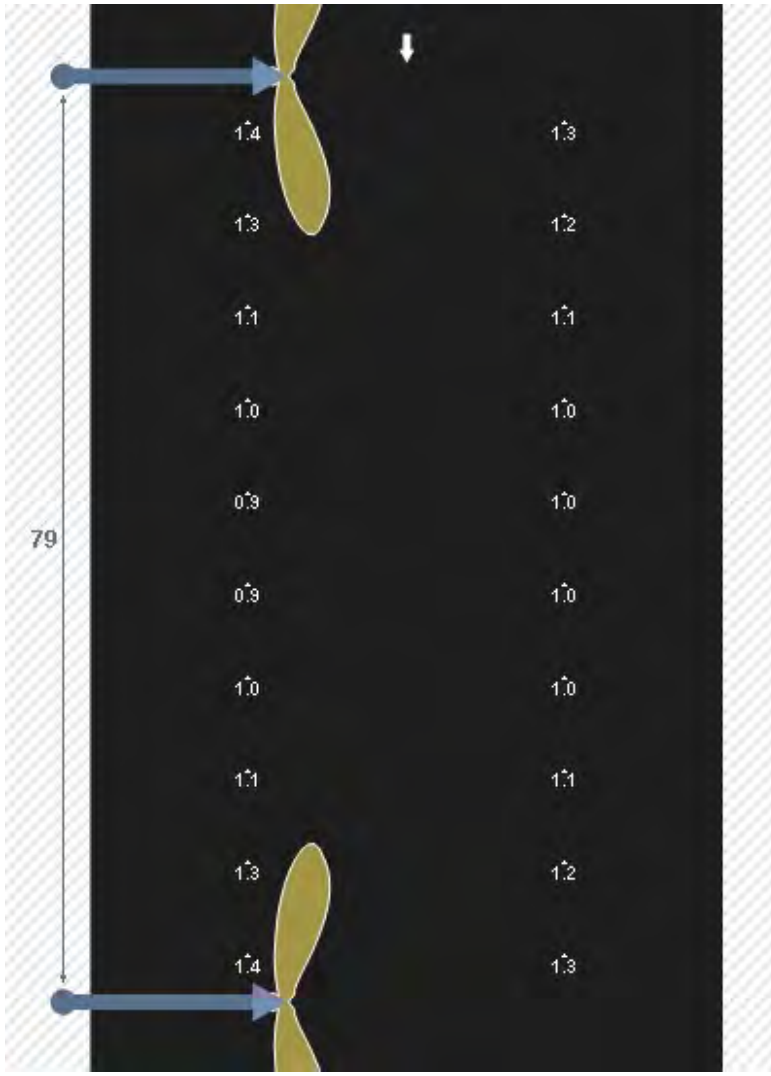

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1.1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.4	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
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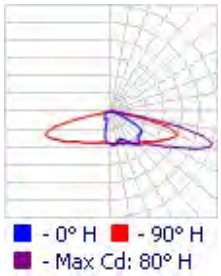
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

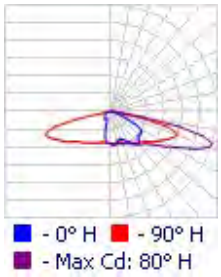
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	158.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	158.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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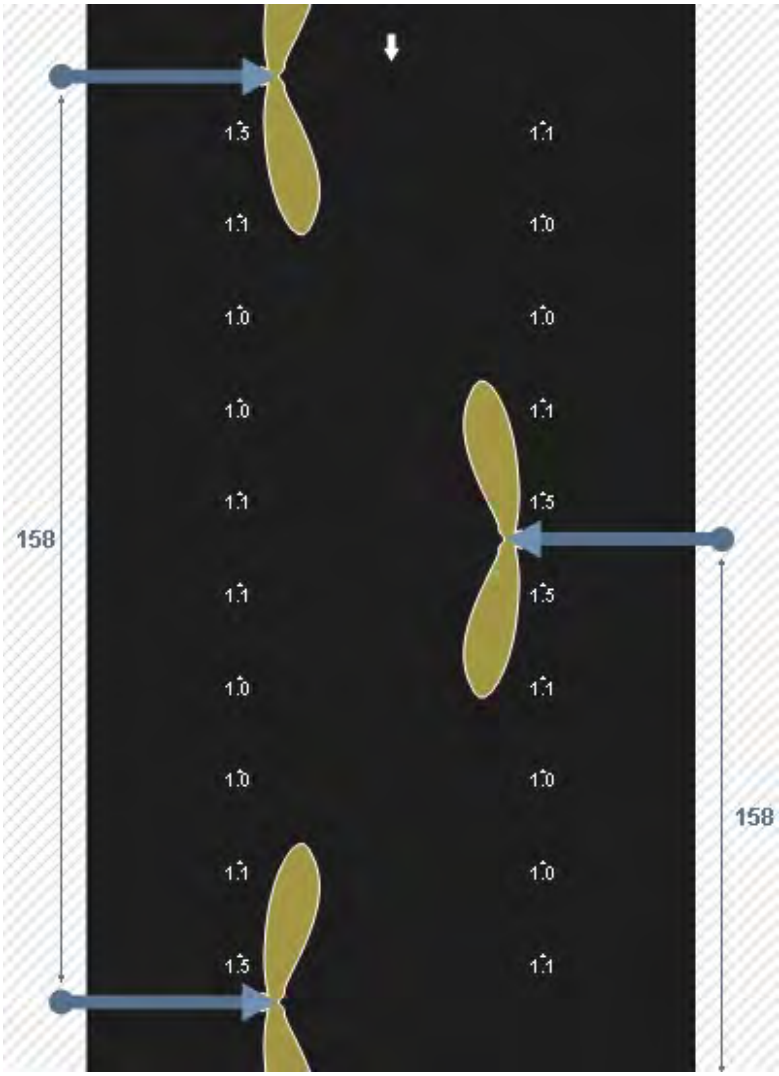

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1.1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	0.8	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

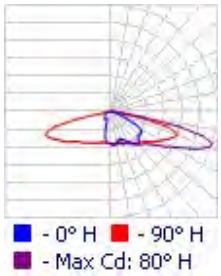
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

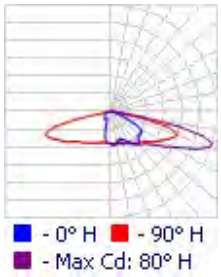
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	146.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	146.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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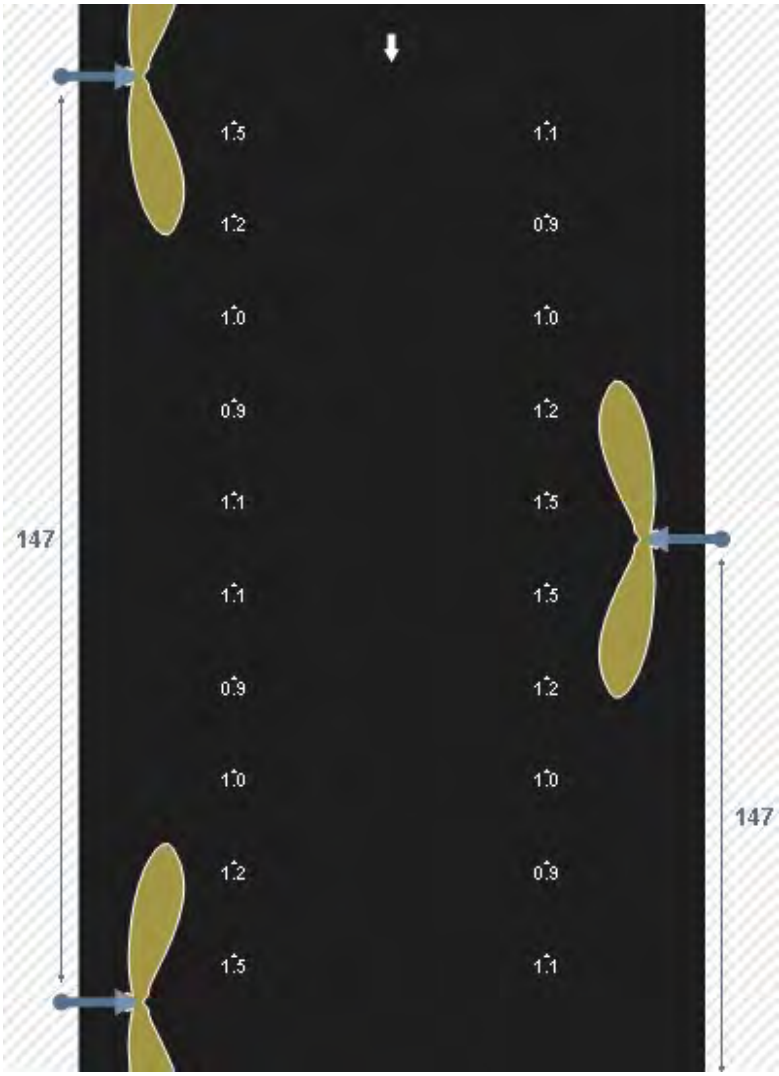

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.8	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

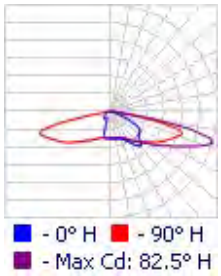
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

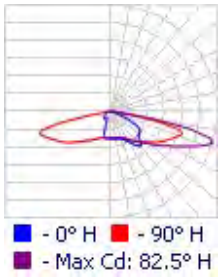
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	80.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	80.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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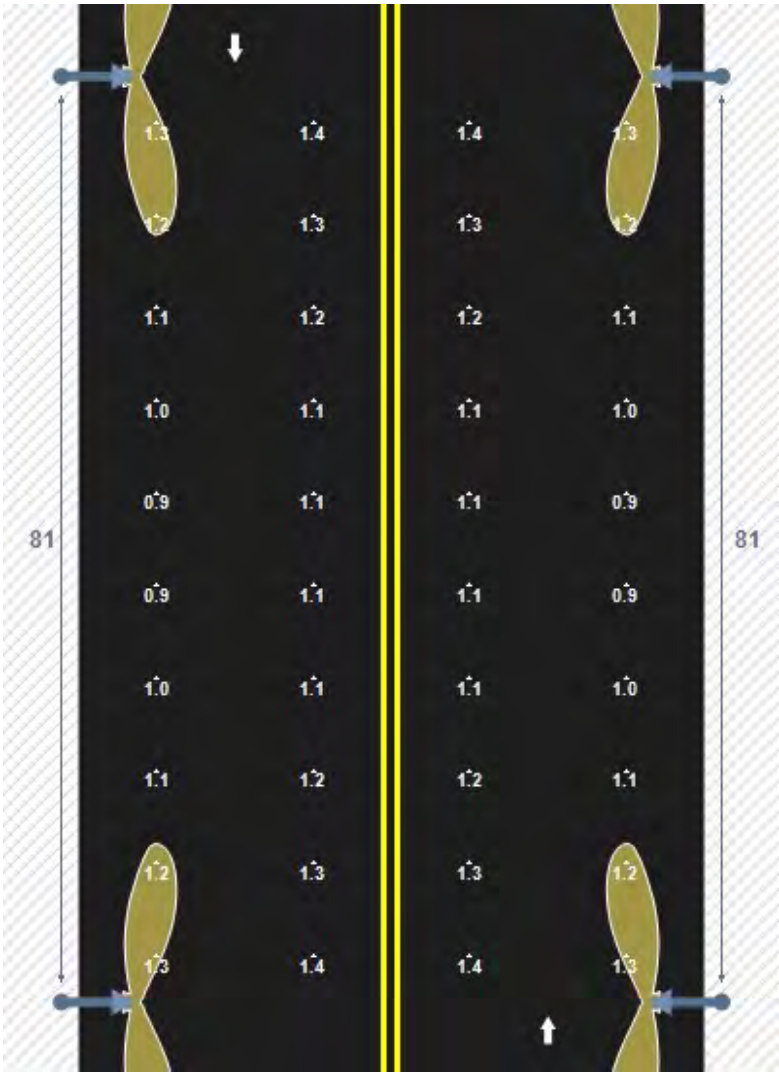

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	1	1	cd/m²
Ave/Min:	1	1	
Max/Min:	1.1	1.1	
Lv Ratio:	0.2	0.2	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

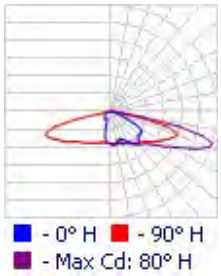
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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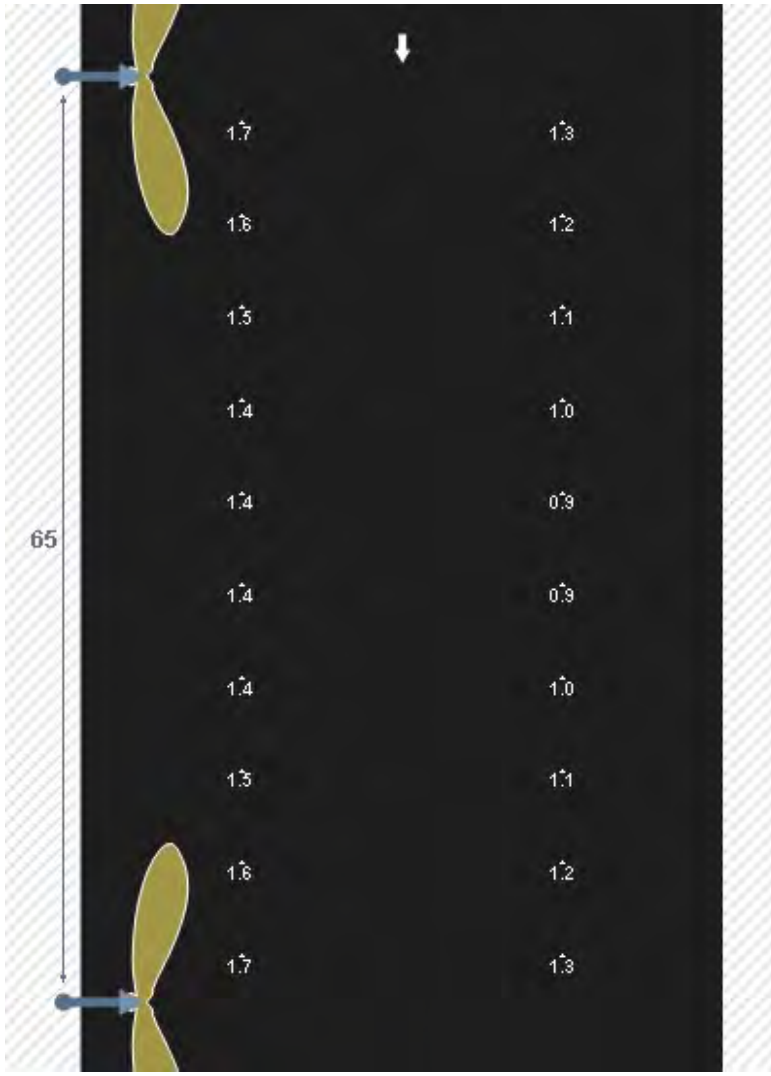

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.6	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.4	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

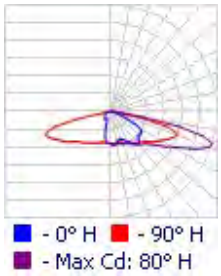
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

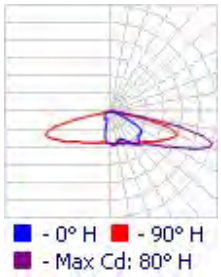
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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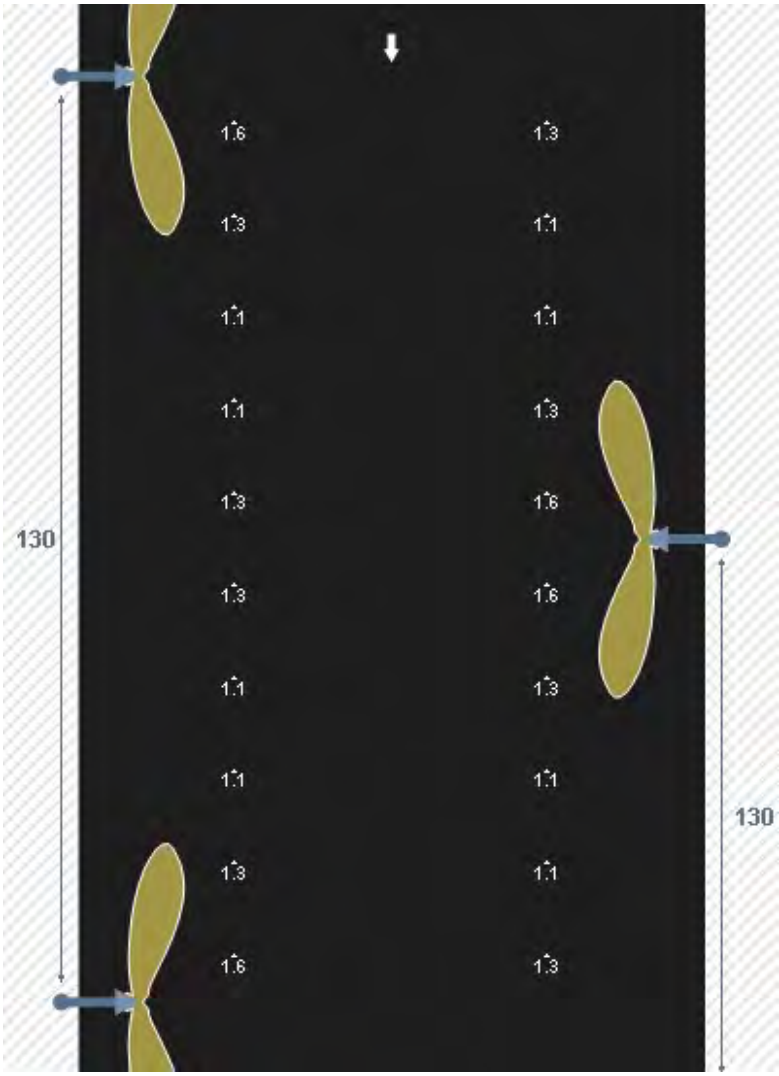

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.2	--	cd/m²
Min	1.1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.8	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.6	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

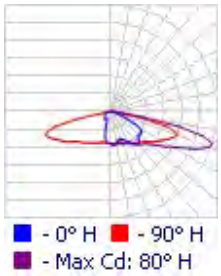
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

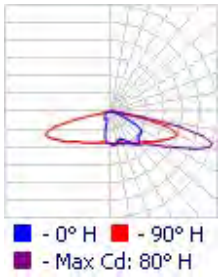
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	146.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	146.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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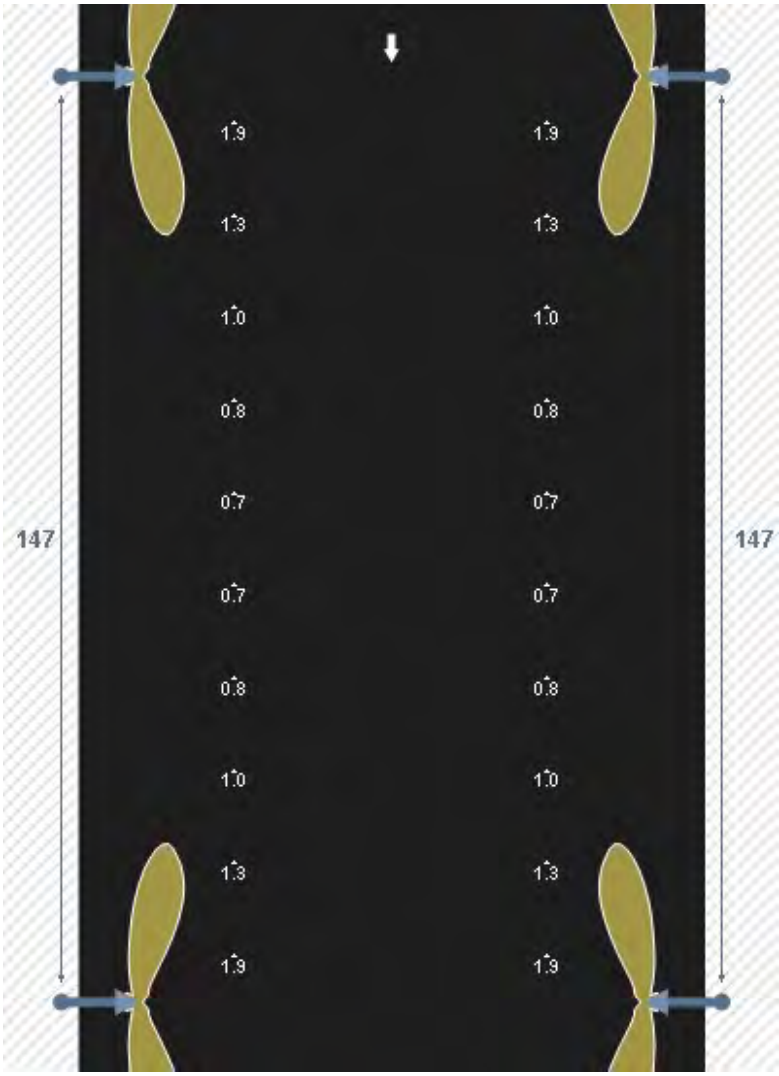

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.9	--	fc
Min	0.7	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

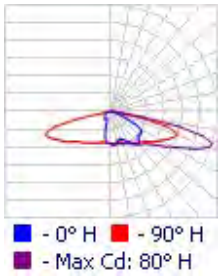
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	73.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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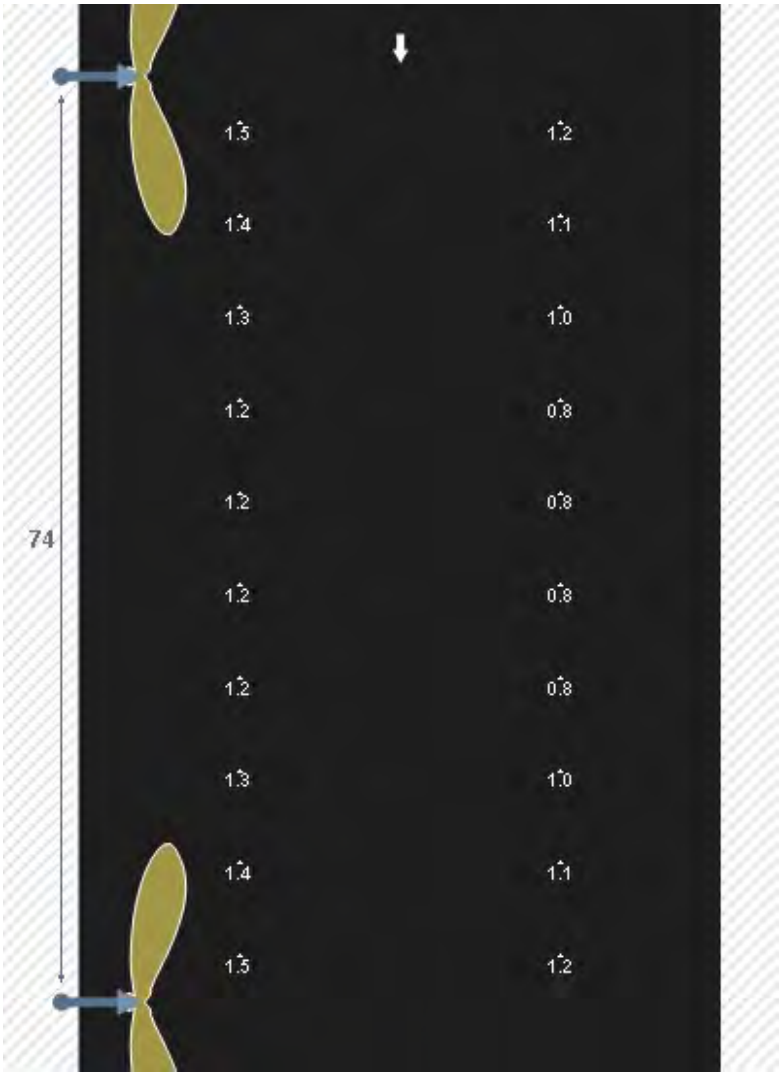

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.3	--	
Lv Ratio:	0.2	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.8	--	fc
Ave/Min:	1.5	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

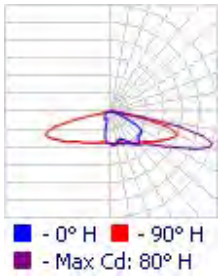
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

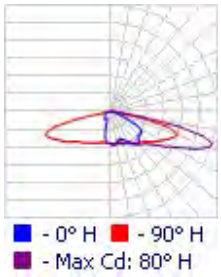
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	151.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	151.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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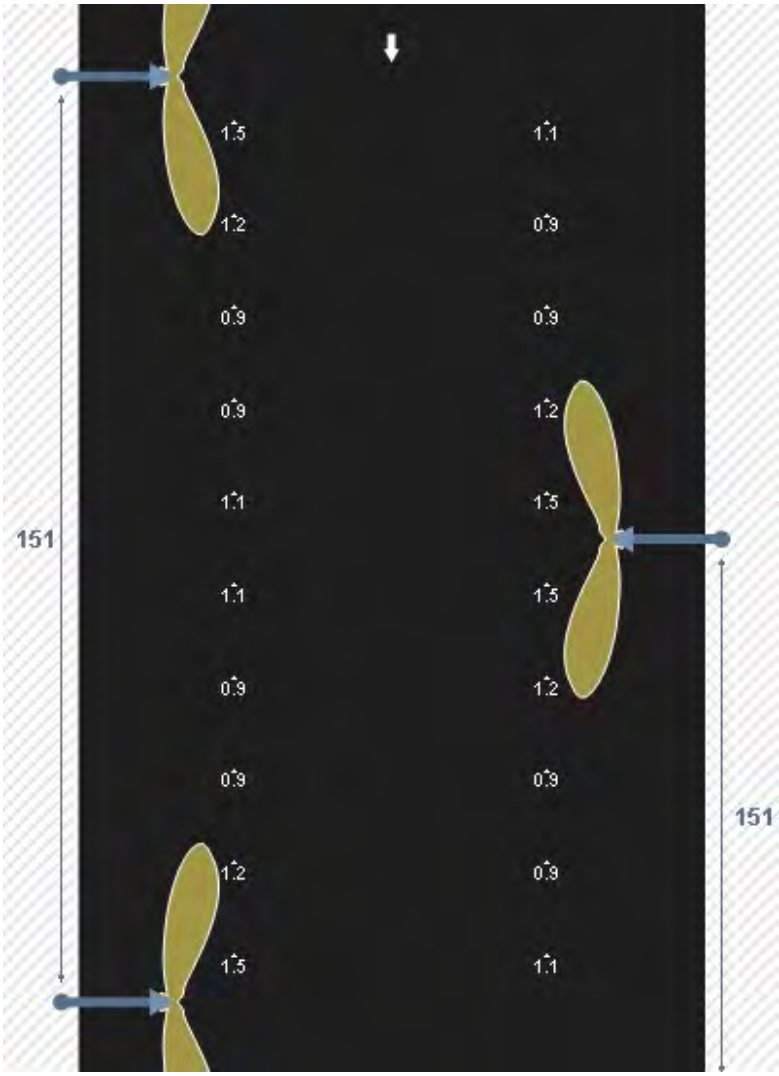

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.1	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.8	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

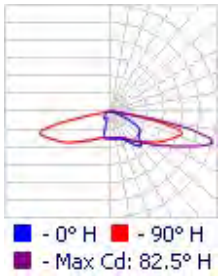
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

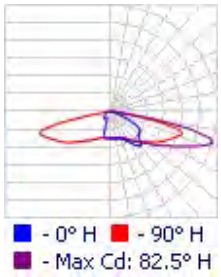
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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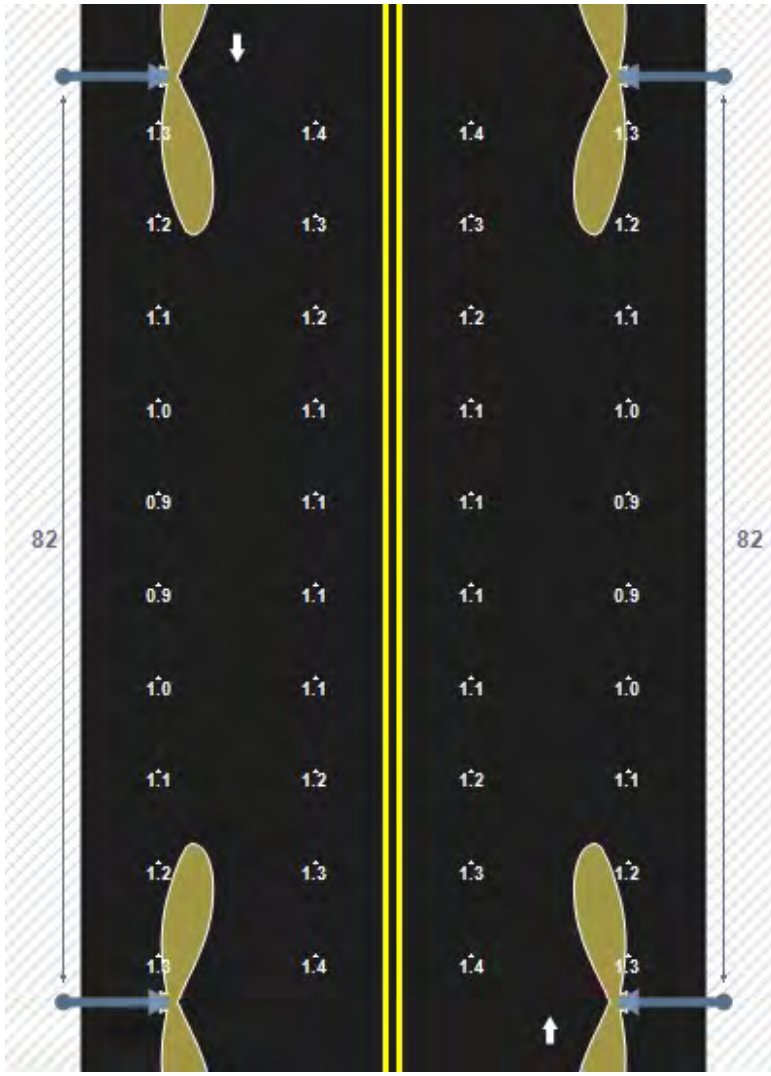

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.2	1.2	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

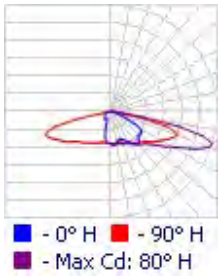
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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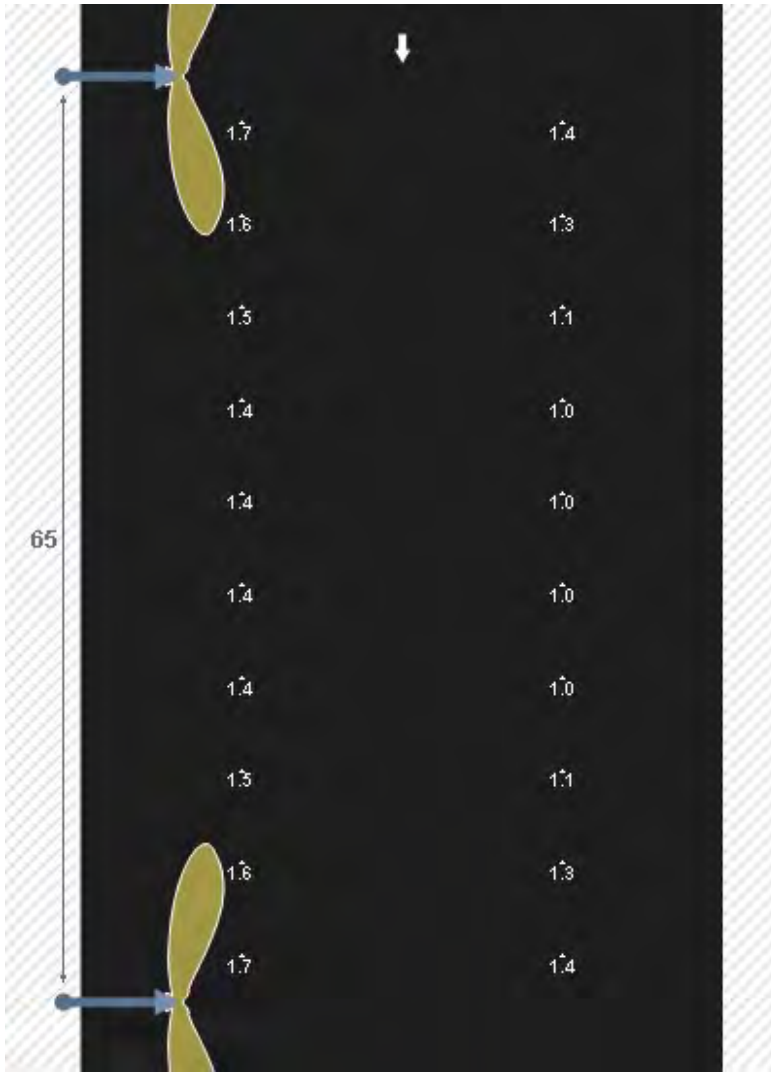

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.6	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.7	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1	--	fc
Ave/Min:	1.4	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

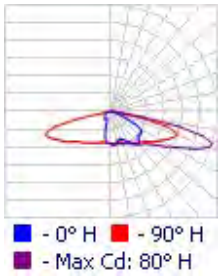
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

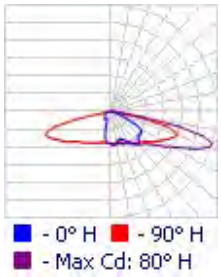
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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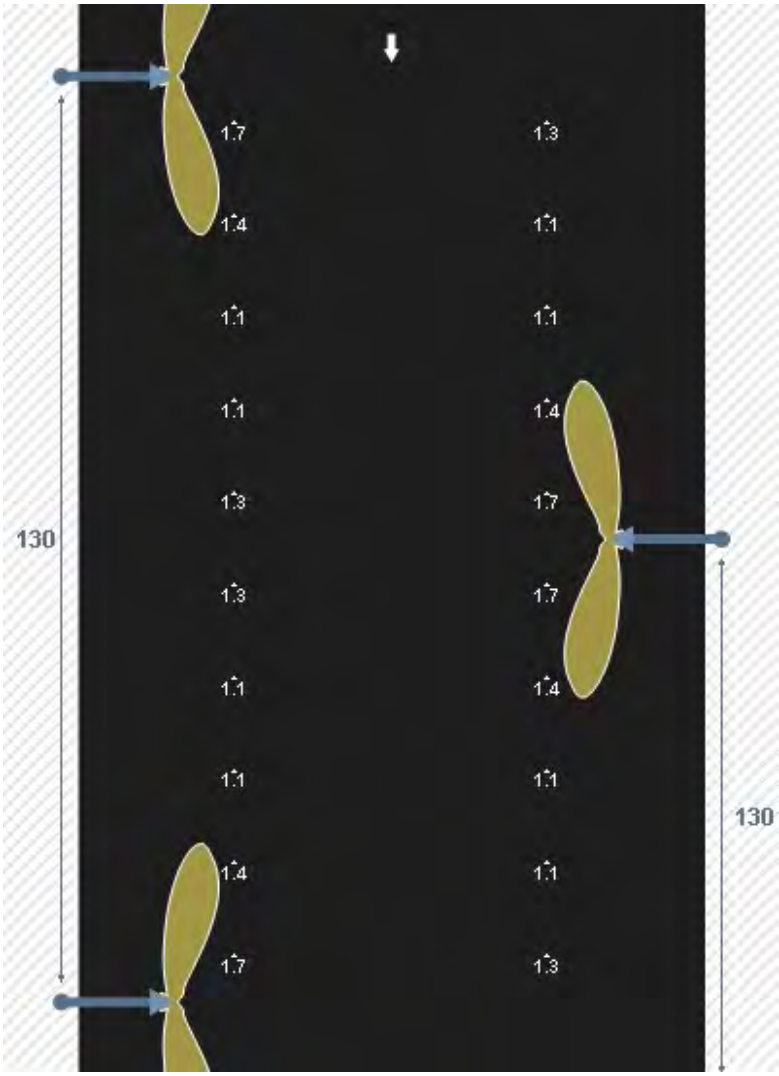

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.3	--	cd/m²
Min	1.1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.7	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

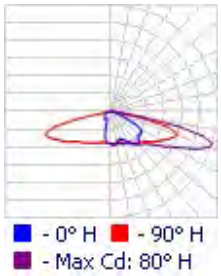
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

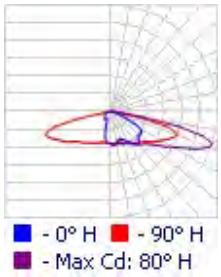
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	151.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	151.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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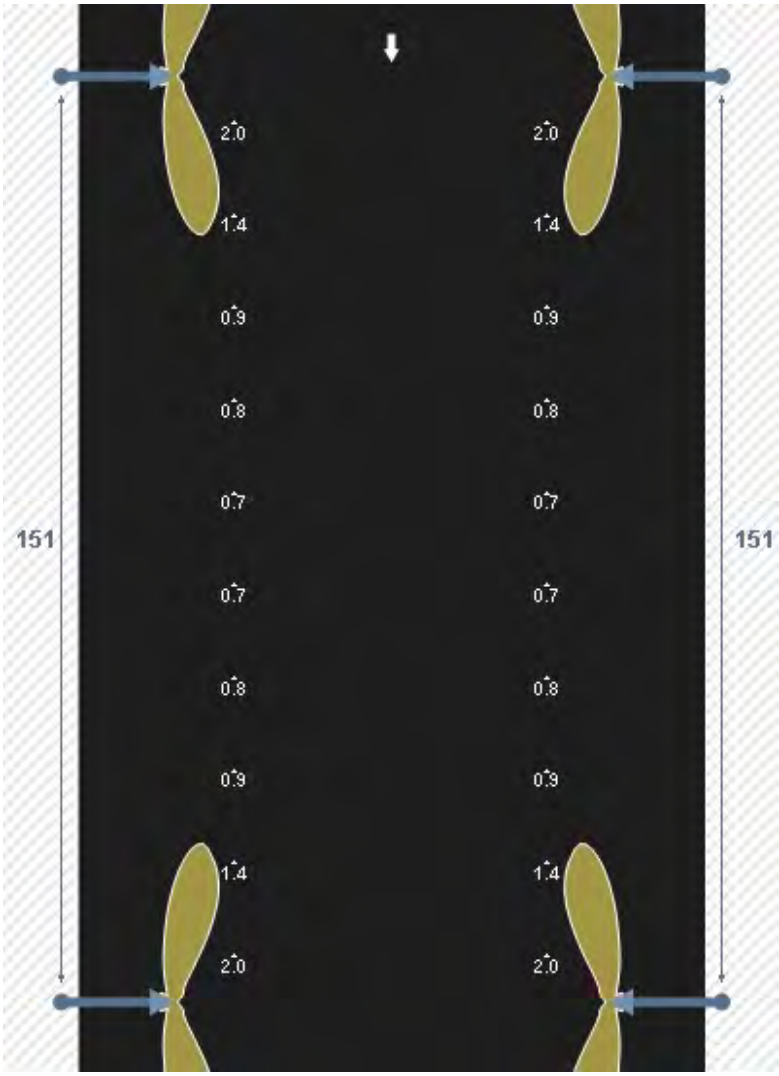

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.2	--	
STV:	2.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2	--	fc
Min	0.7	--	fc
Ave/Min:	1.7	--	
Max/Min:	2.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

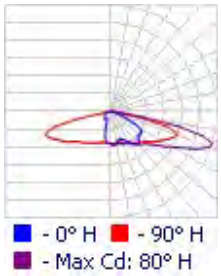
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	75.45 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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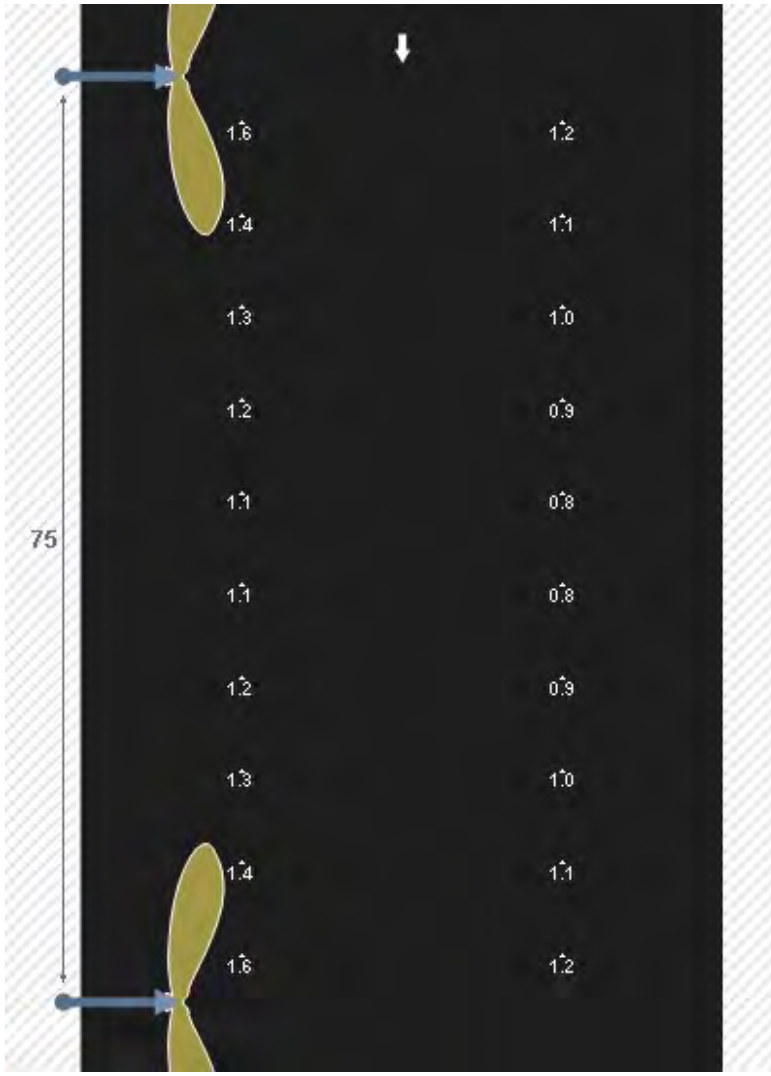

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.4	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

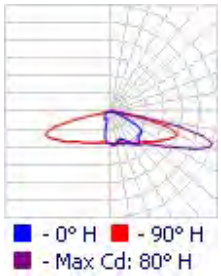
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

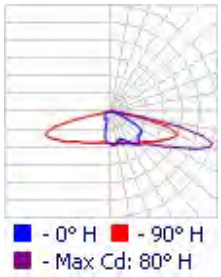
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	154.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	154.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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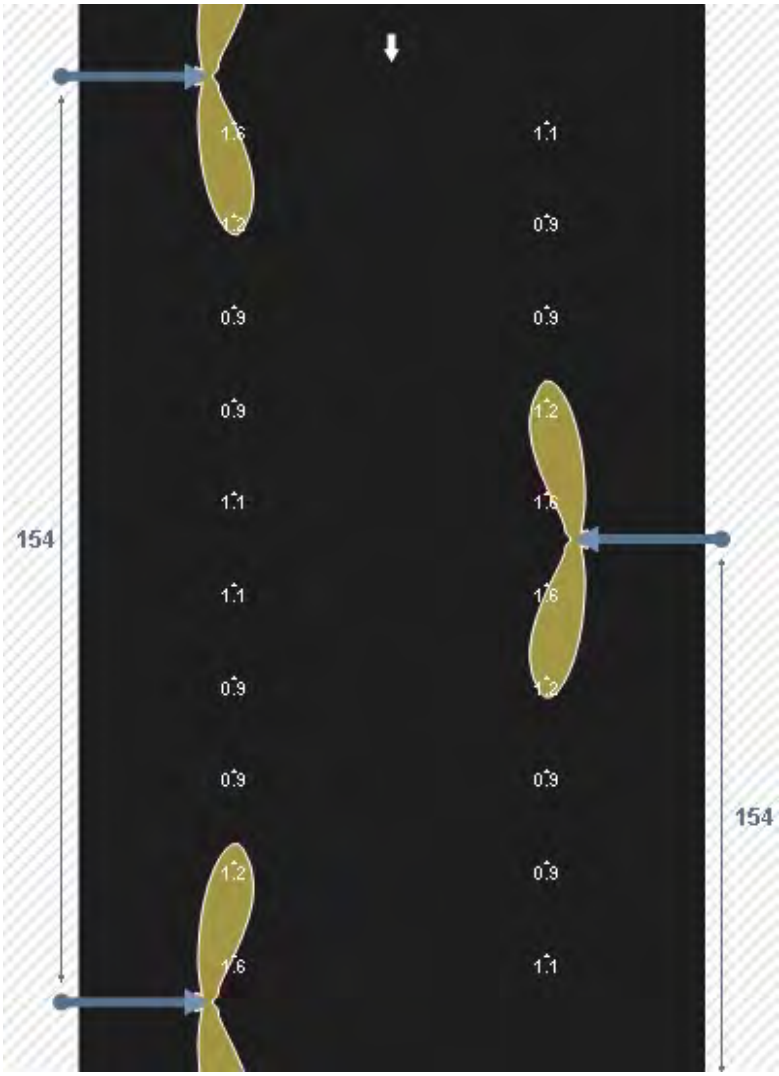

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.1	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.8	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

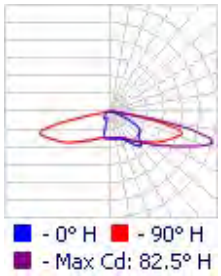
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (24 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

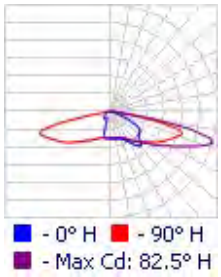
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	83.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R2 3K

Cycle Spacing:	83.79 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3295
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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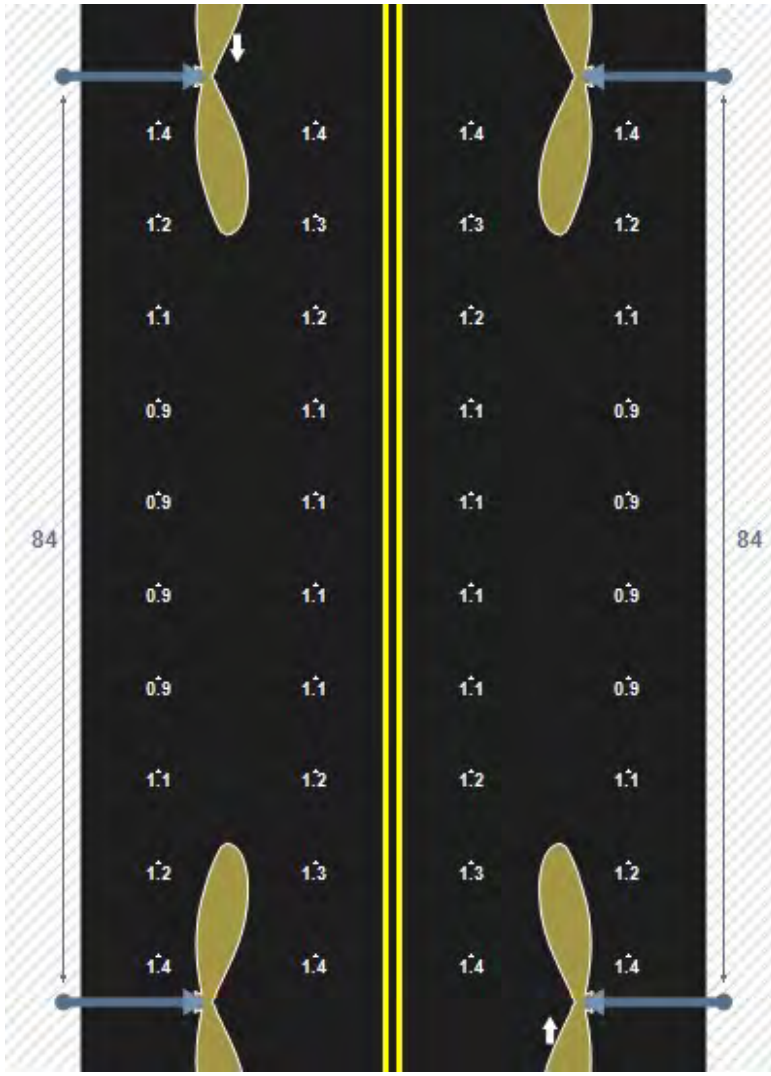

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.3	1.3	cd/m²
Min	1	1	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.2	0.2	
STV:	0.9	0.9	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

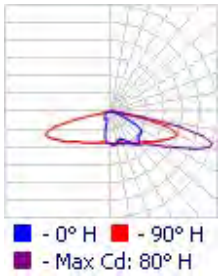
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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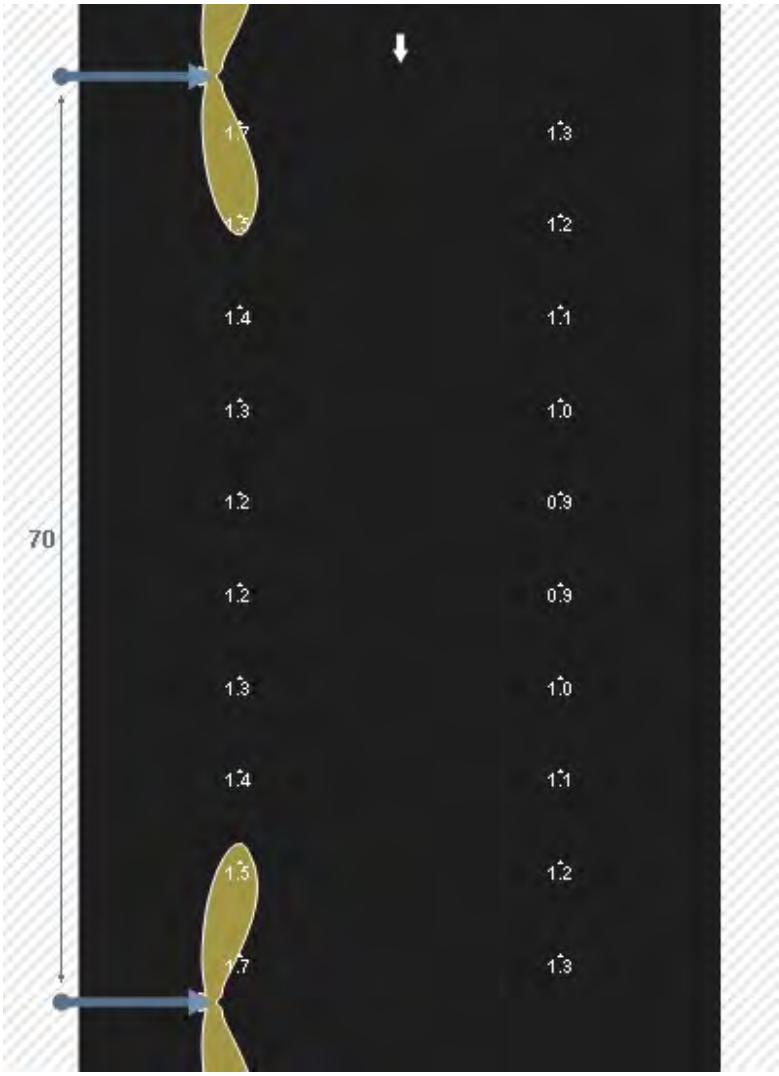

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.5	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2.1	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

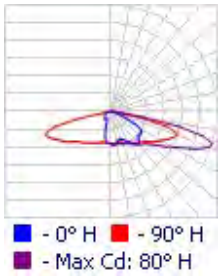
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (15 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

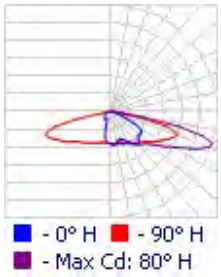
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	140 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	True	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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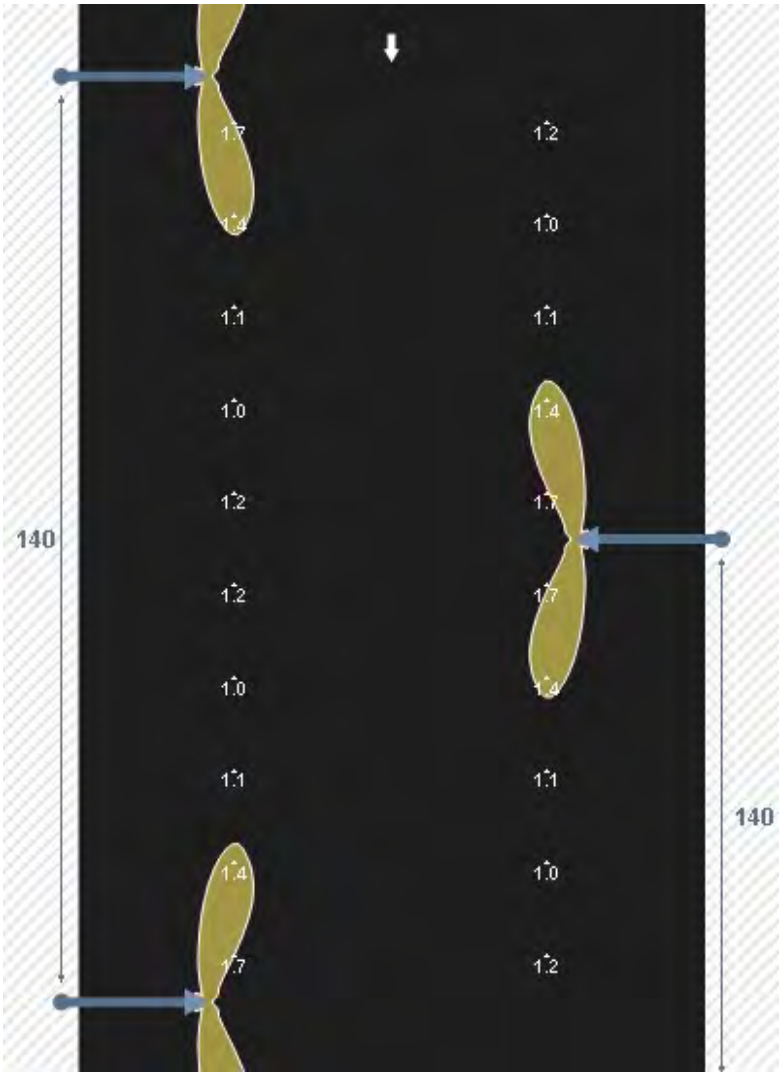

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.2	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.2	--	
STV:	0.7	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
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Your Phone
Your Email

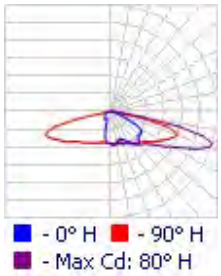
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

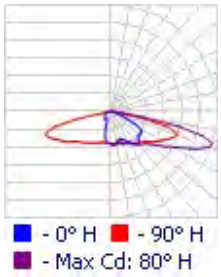
Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	154.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	154.29 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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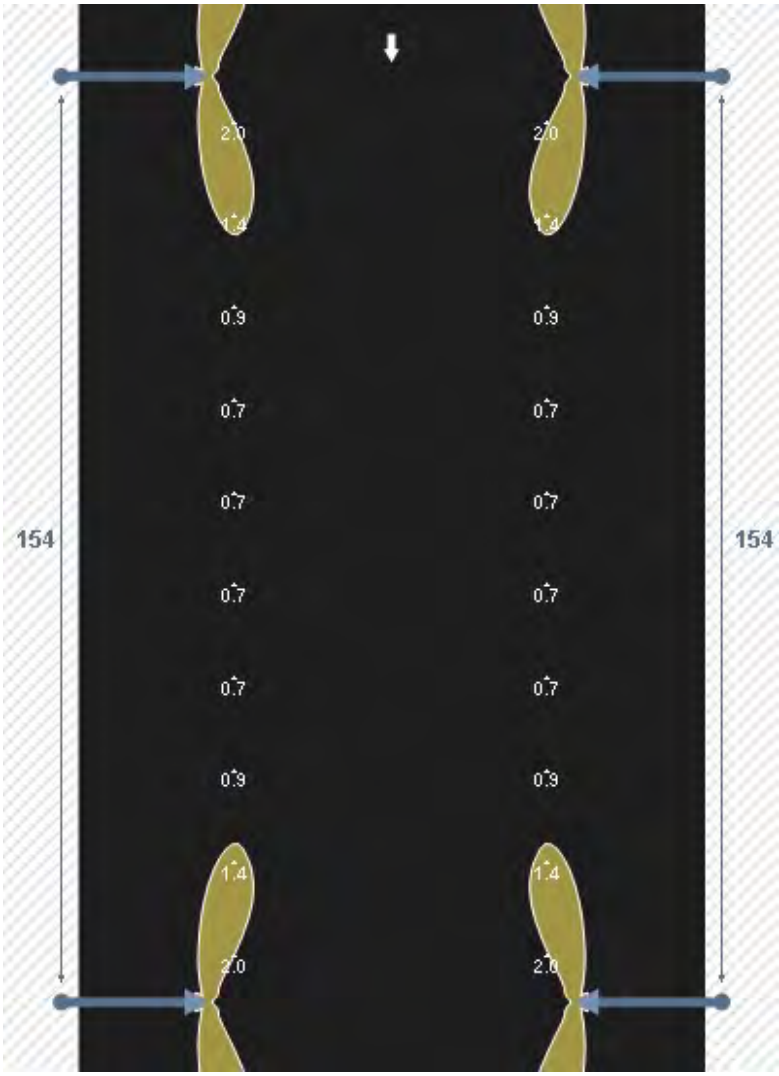

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.2	--	
STV:	2.3	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2	--	fc
Min	0.7	--	fc
Ave/Min:	1.8	--	
Max/Min:	3.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

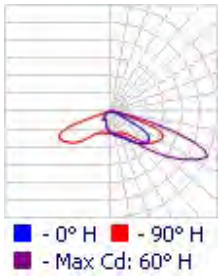
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

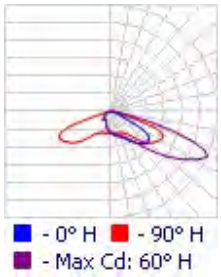
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	167.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	167.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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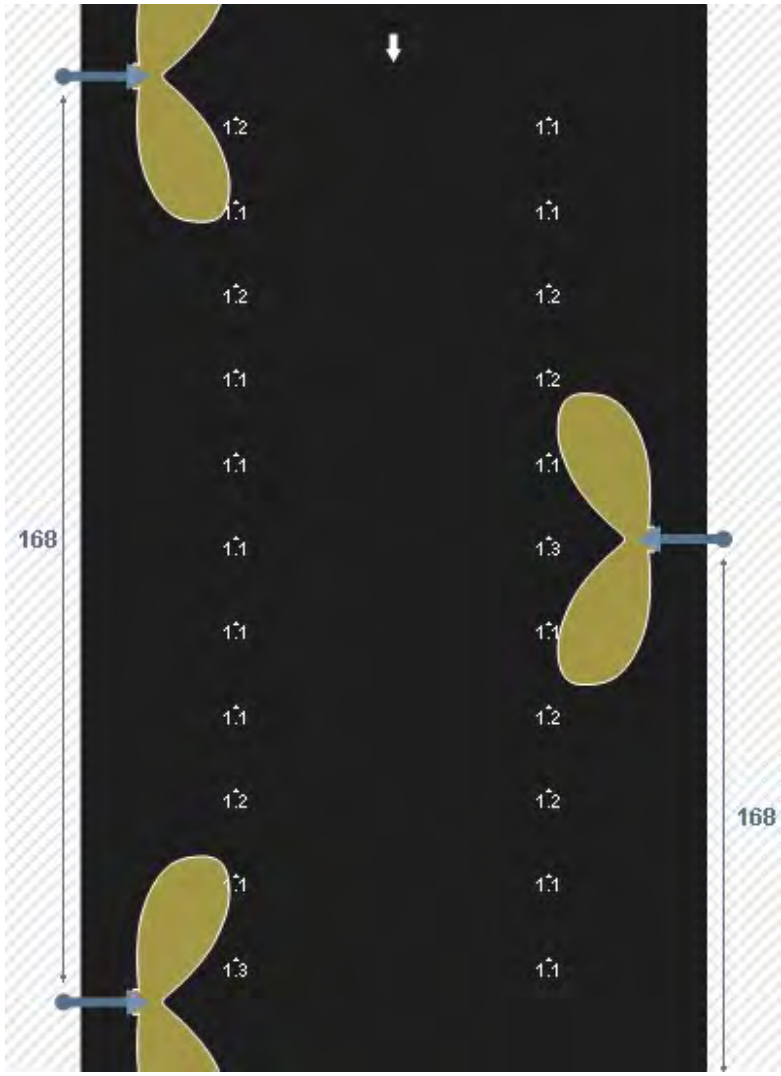

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.7	--	
Lv Ratio:	0.2	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.3	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

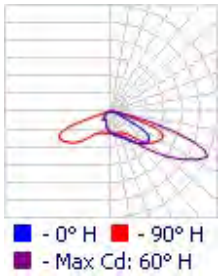
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

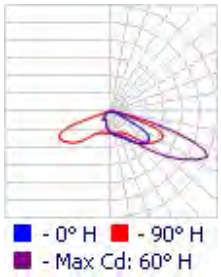
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	120 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	120 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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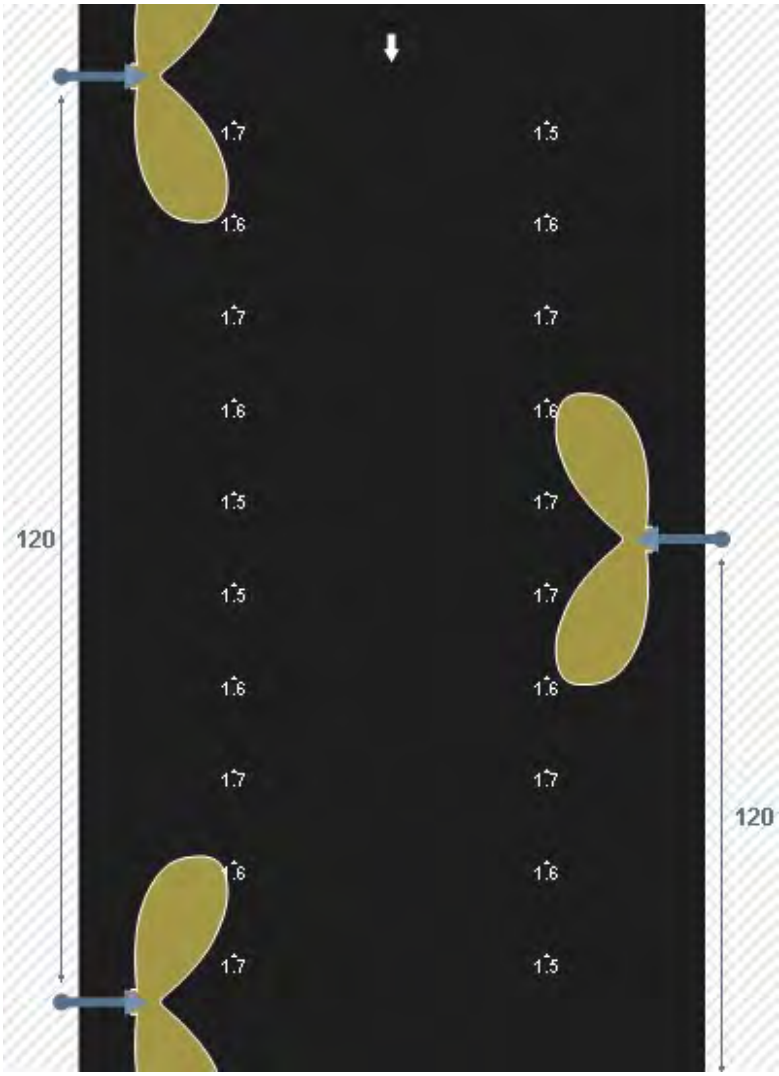

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.4	--	cd/m²
Min	1.1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.6	--	fc
Max:	1.7	--	fc
Min	1.5	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

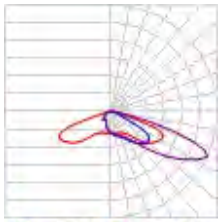
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (17 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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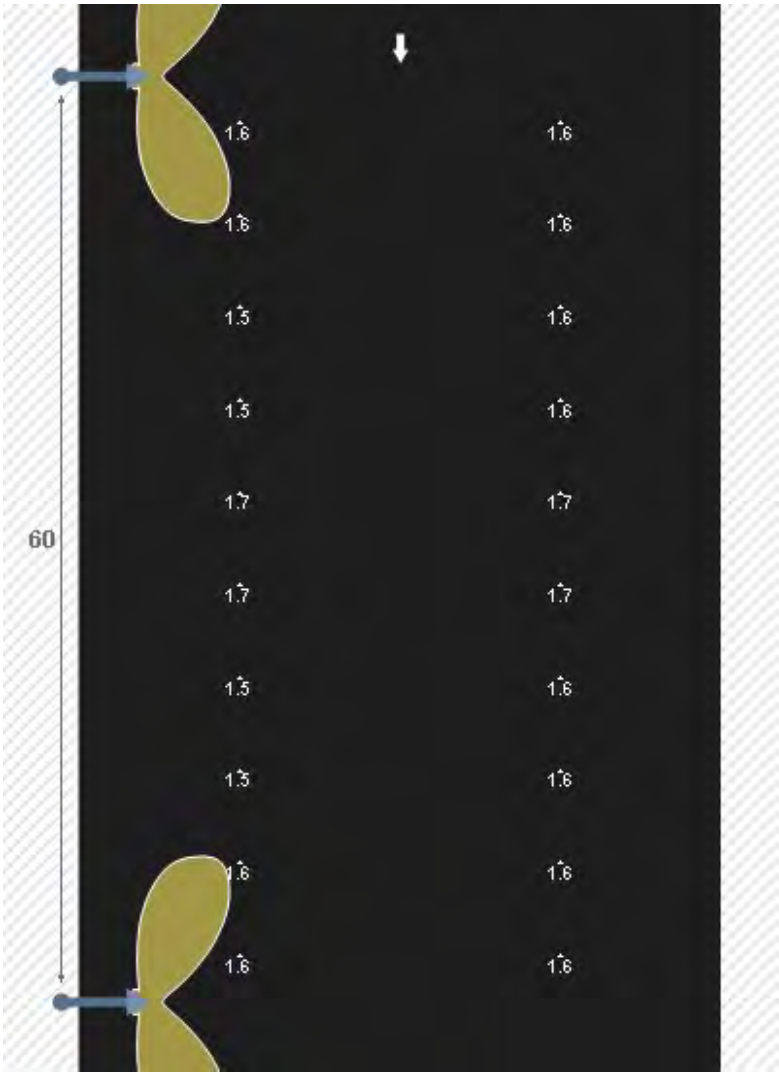

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.3	--	cd/m²
Max:	1.5	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.6	--	fc
Max:	1.7	--	fc
Min	1.5	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

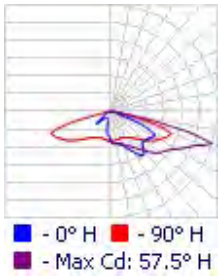
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

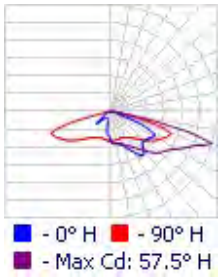
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	74.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	74.46 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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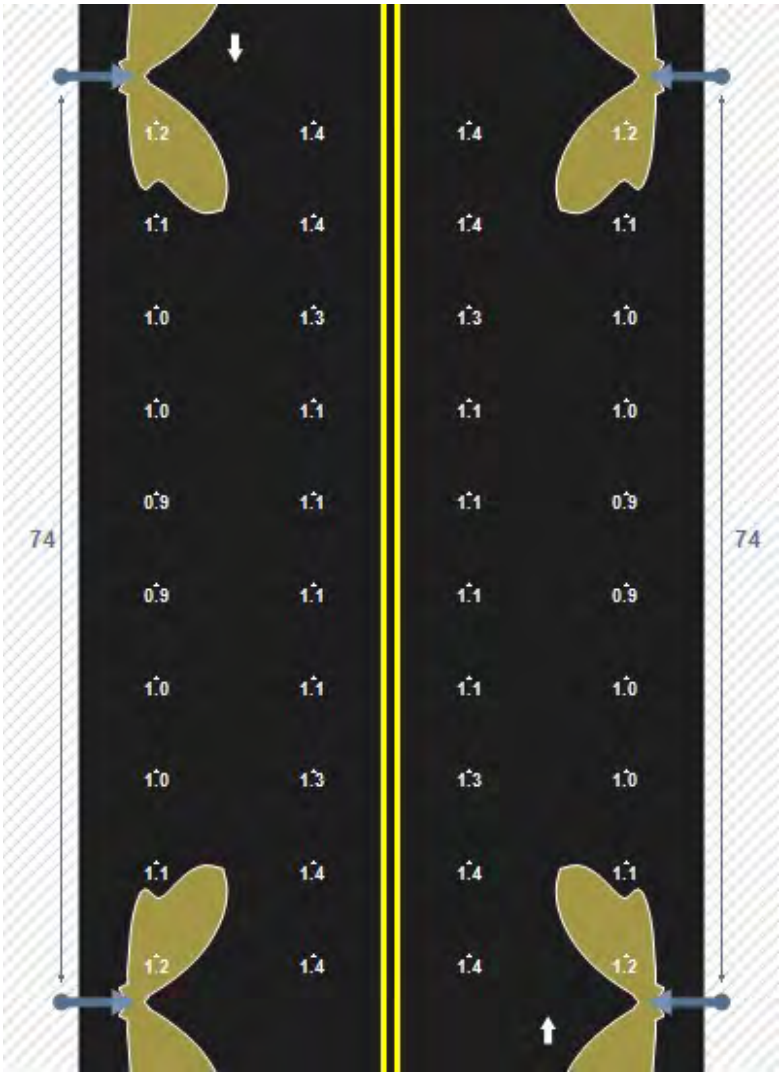
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1	1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

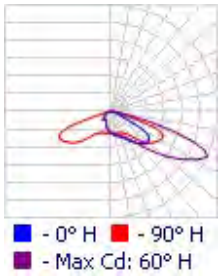
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

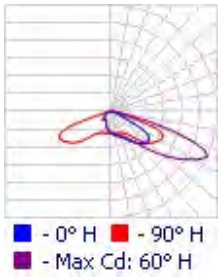
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	167.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	167.62 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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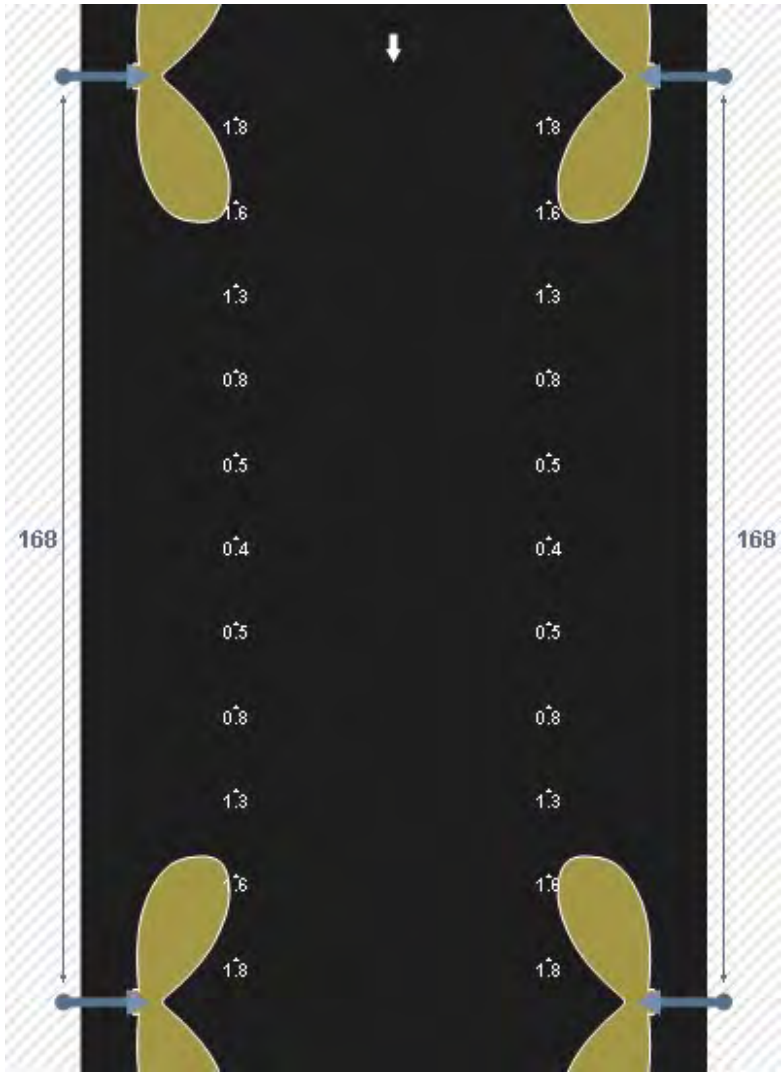

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.8	--	fc
Min	0.5	--	fc
Ave/Min:	2.6	--	
Max/Min:	4.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

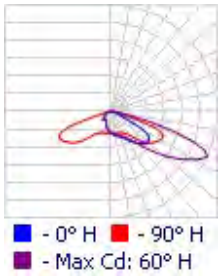
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (12 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	83.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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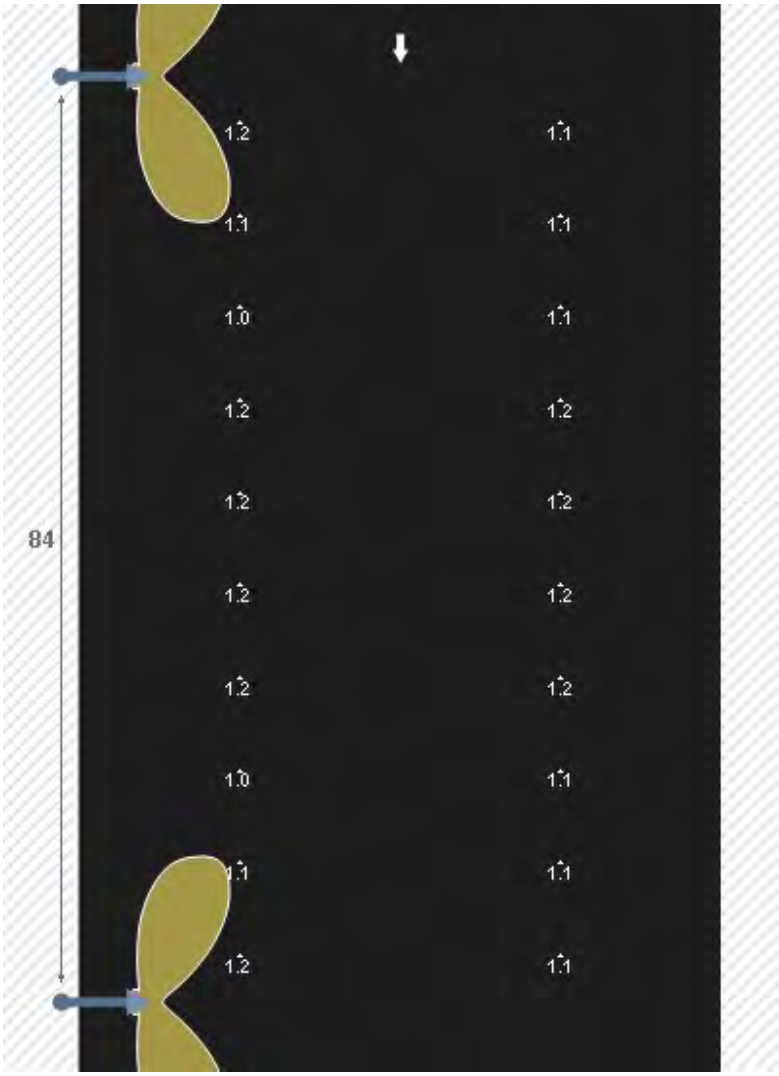

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.2	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Thursday, April 15, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

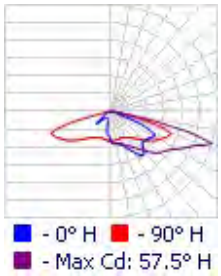
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Local		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

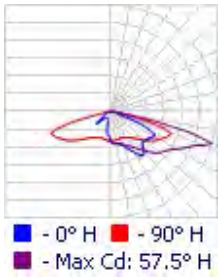
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	156.93 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	4 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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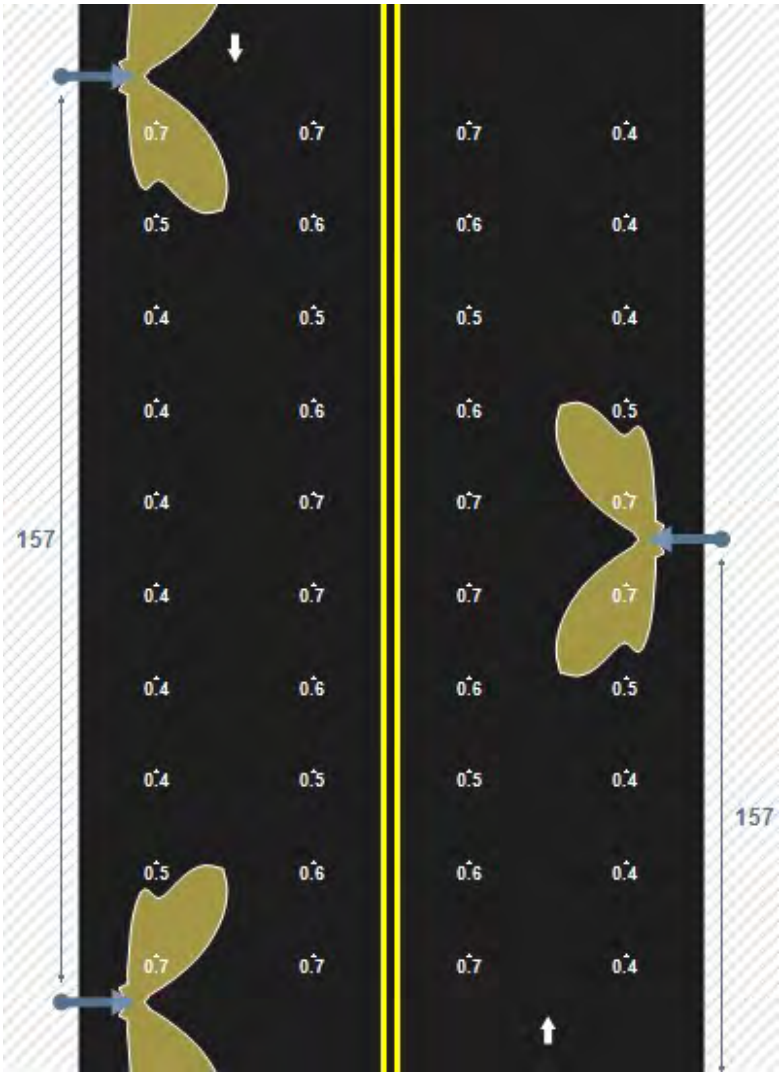

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.4	0.4	cd/m²
Max:	0.5	0.5	cd/m²
Min	0.3	0.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	0.6	0.6	fc
Max:	0.7	0.7	fc
Min	0.4	0.4	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

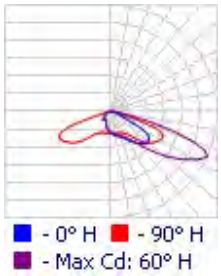
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

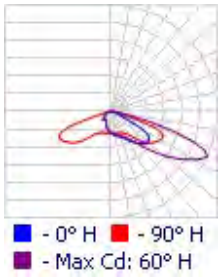
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	166.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	166.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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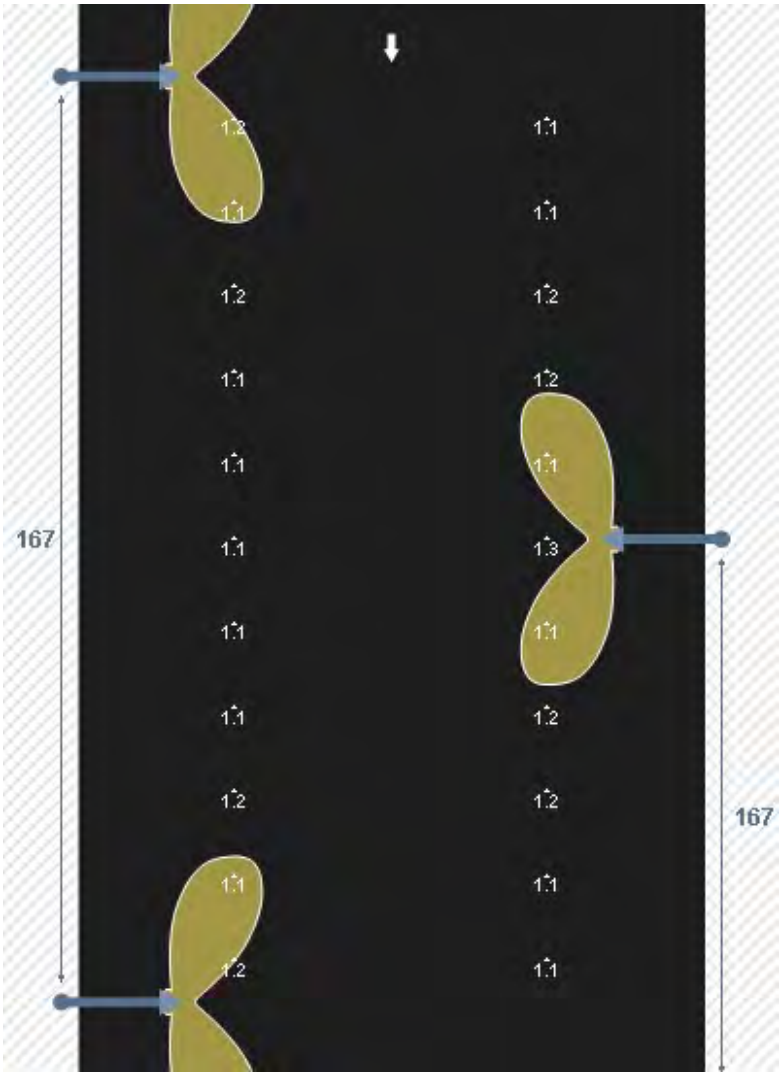

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.3	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

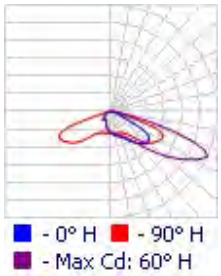
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

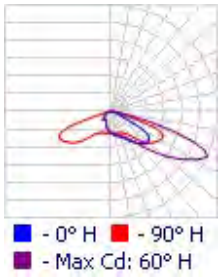
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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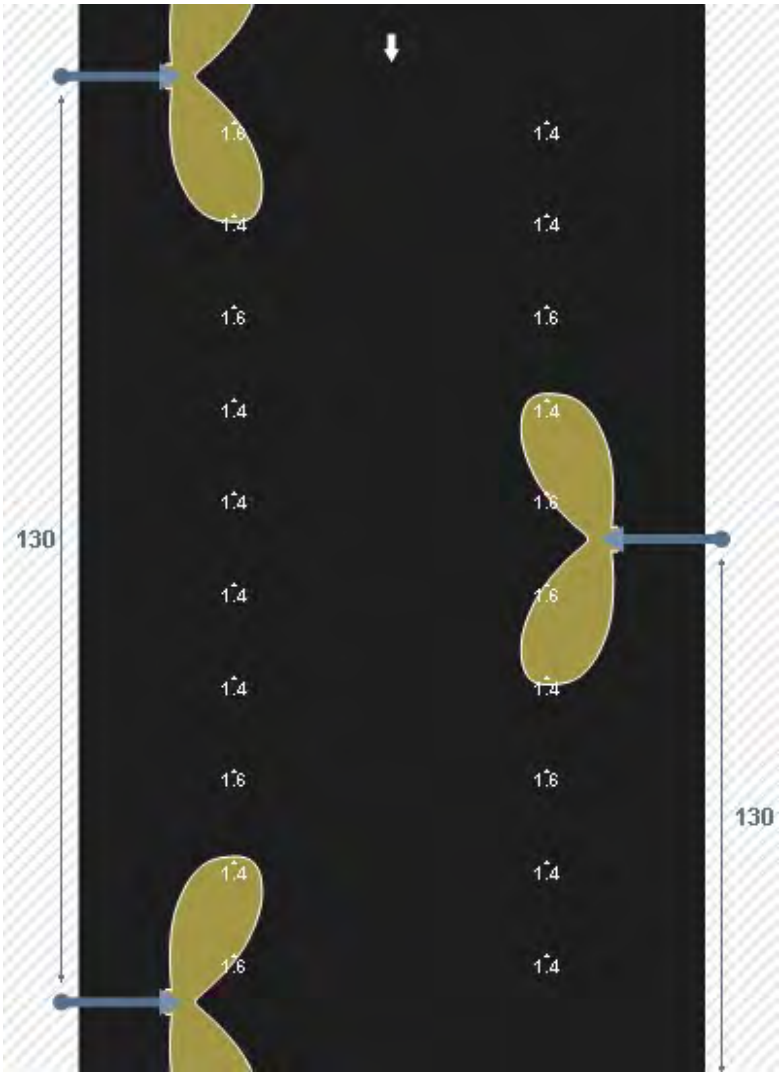

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.3	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.5	--	fc
Max:	1.6	--	fc
Min	1.4	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

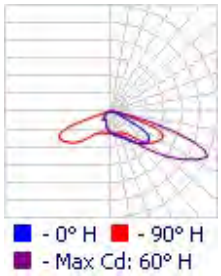
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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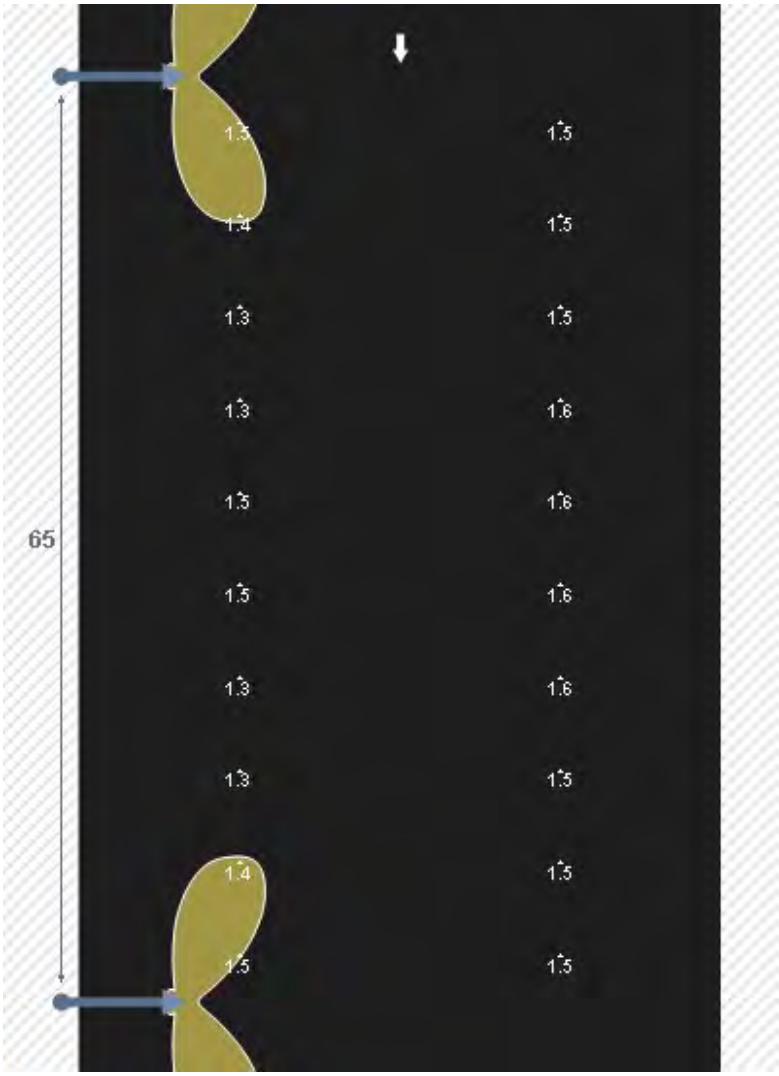

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.4	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.5	--	fc
Max:	1.6	--	fc
Min	1.3	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

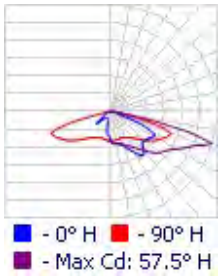
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

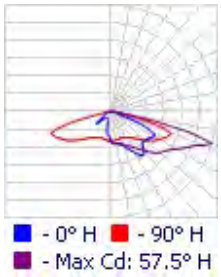
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	74.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	74.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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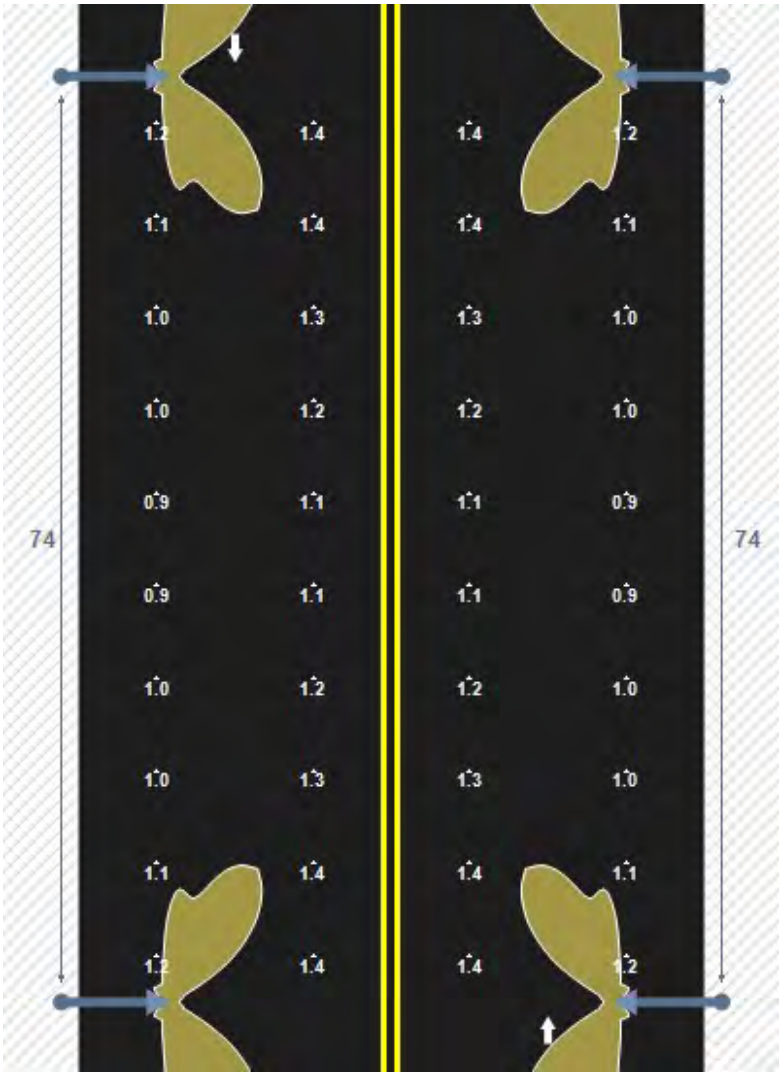

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.4	1.4	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

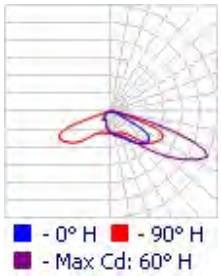
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

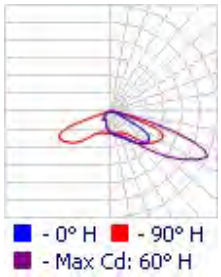
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	166.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	166.6 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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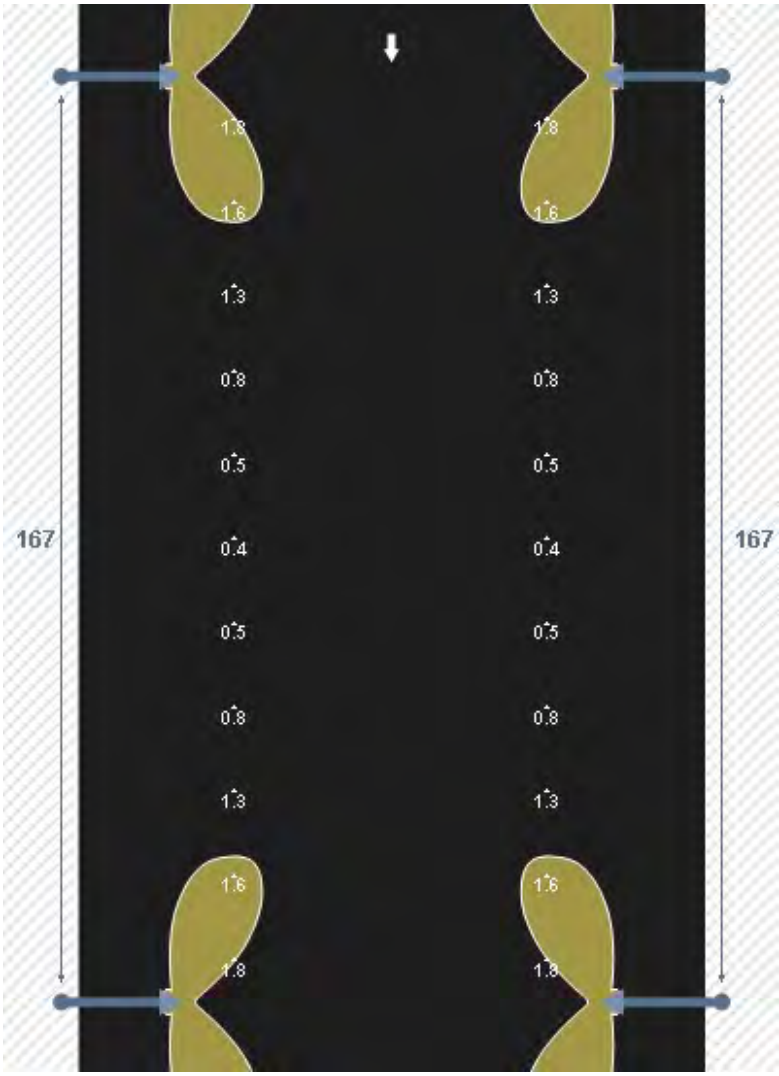

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4.3	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.8	--	fc
Min	0.5	--	fc
Ave/Min:	2.6	--	
Max/Min:	4.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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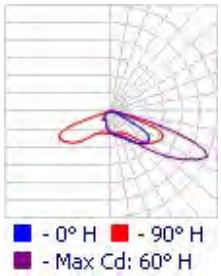
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	82.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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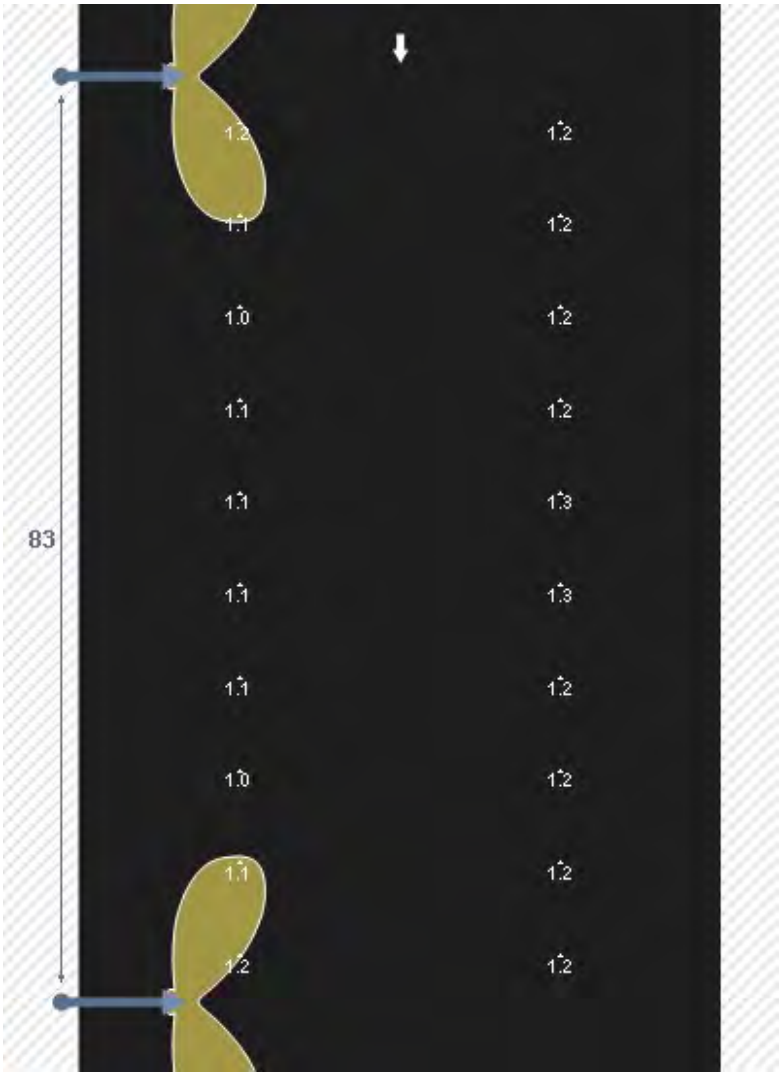

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.6	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.3	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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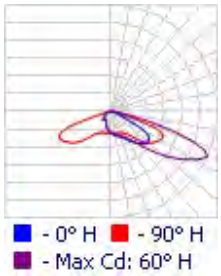
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

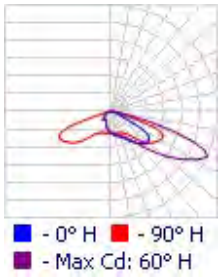
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	164.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	164.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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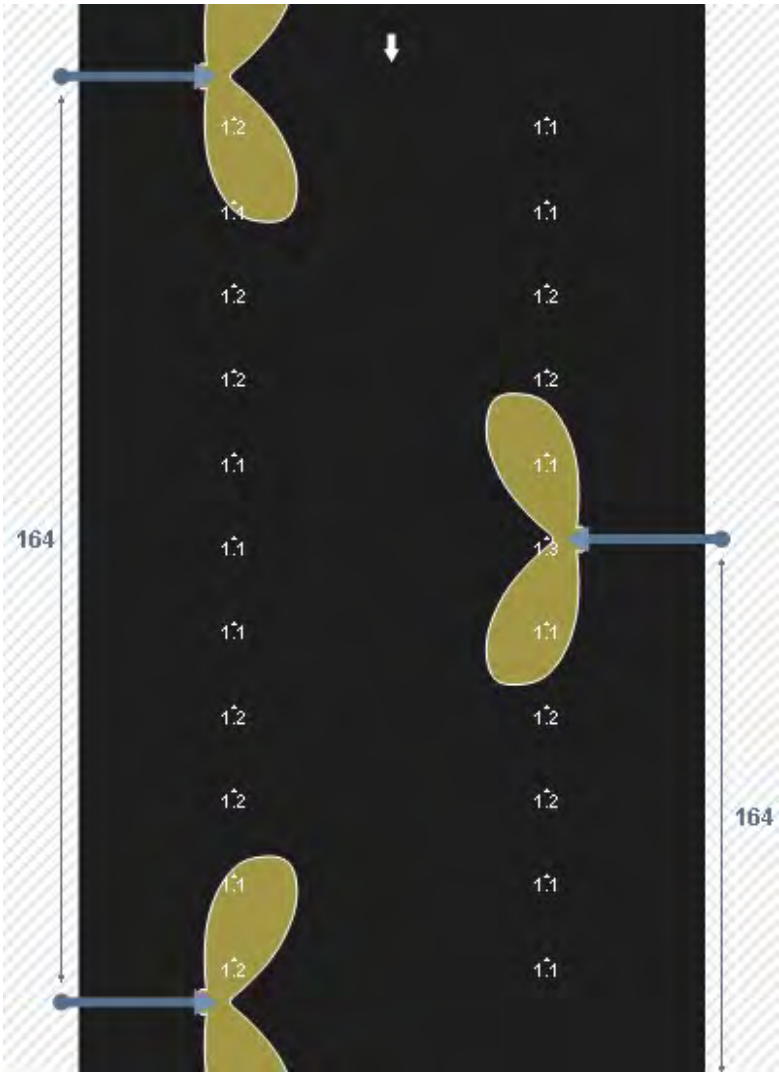

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.3	--	fc
Min	1.1	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Project Description

User Name
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Your Email

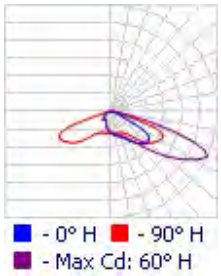
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

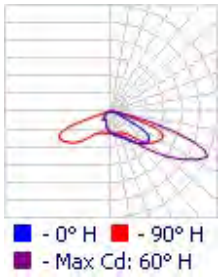
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	130 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	True	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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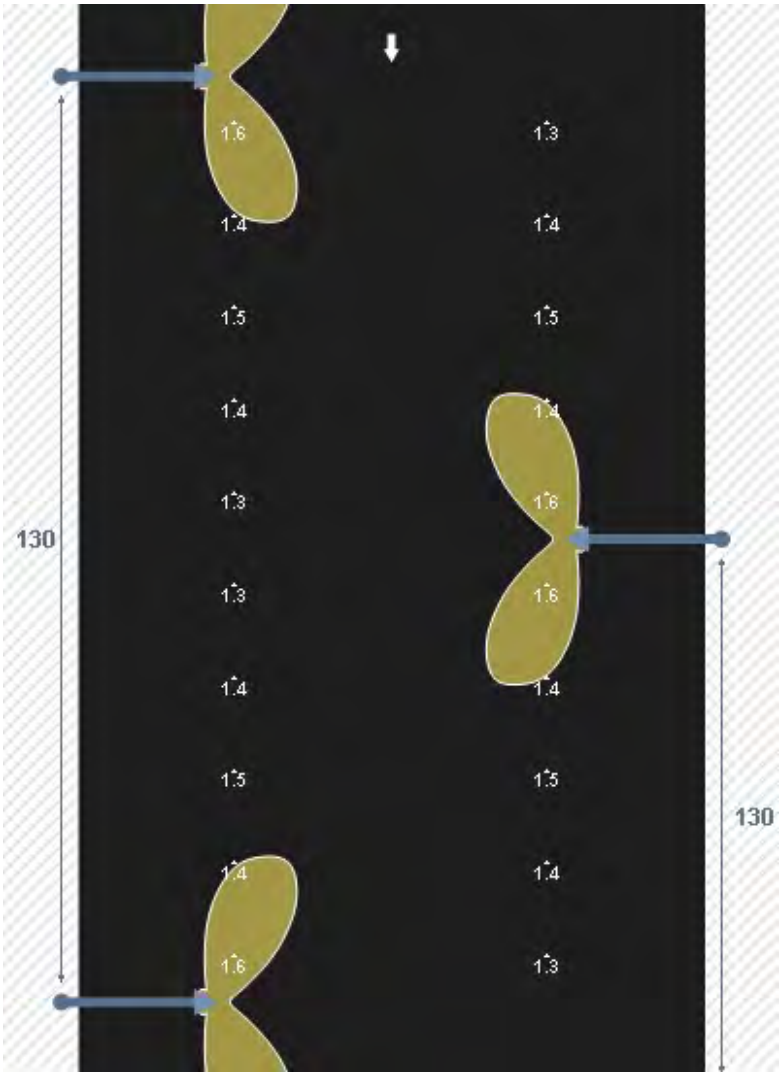

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.3	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.6	--	fc
Min	1.4	--	fc
Ave/Min:	1.1	--	
Max/Min:	1.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

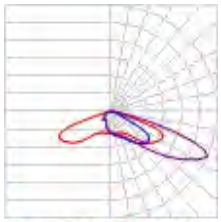
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (16 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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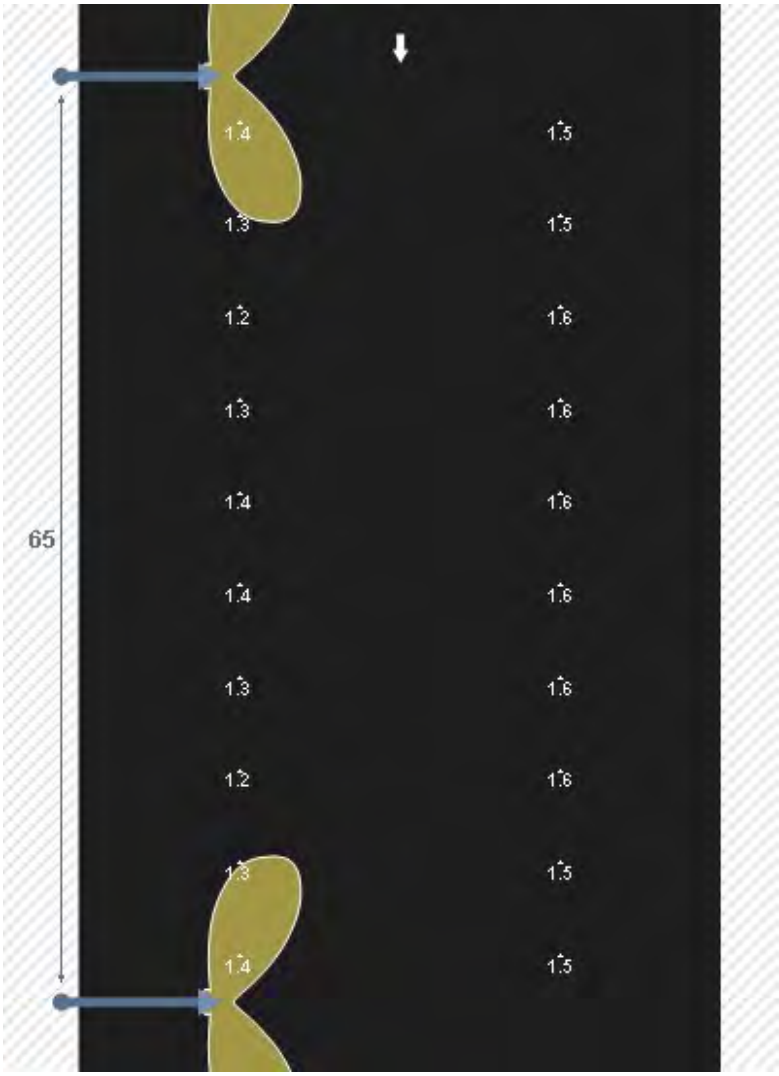

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.2	--	cd/m²
Max:	1.3	--	cd/m²
Min	1.1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.6	--	fc
Min	1.2	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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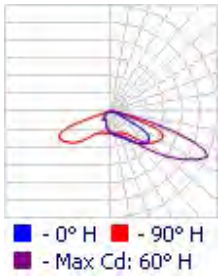
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

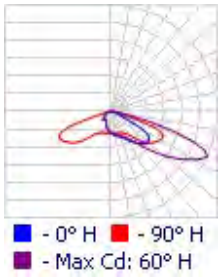
Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	163.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	163.24 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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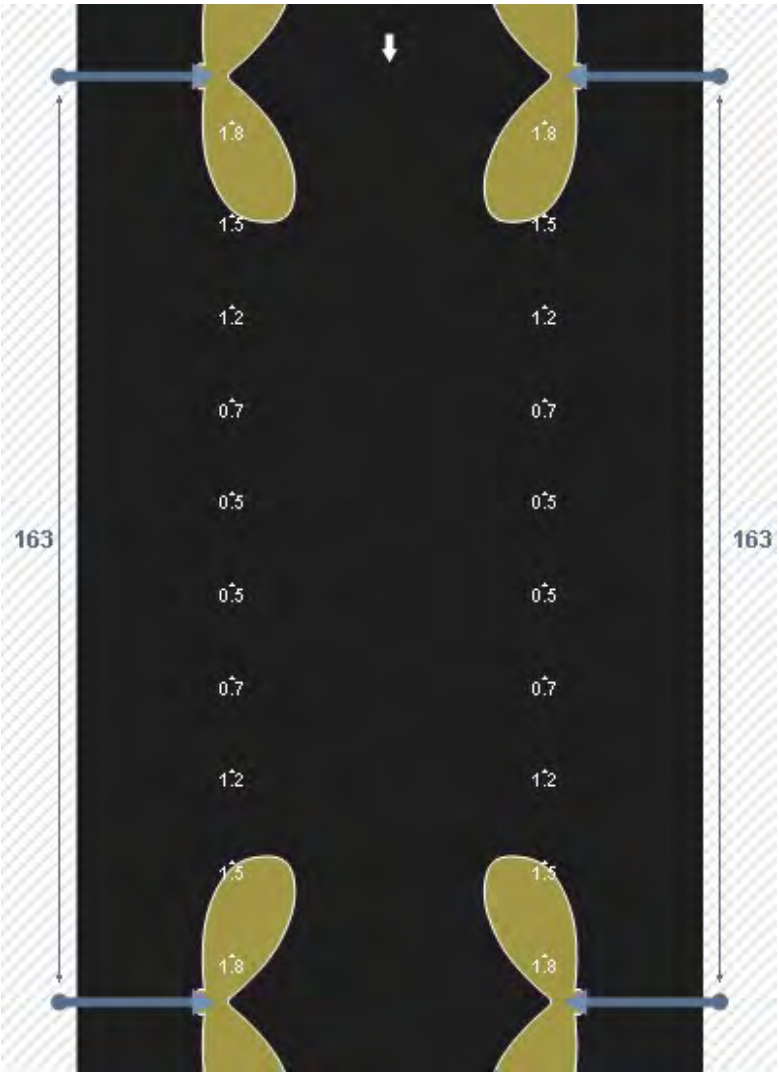

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.2	--	
Lv Ratio:	0.2	--	
STV:	4.4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.8	--	fc
Min	0.5	--	fc
Ave/Min:	2.3	--	
Max/Min:	3.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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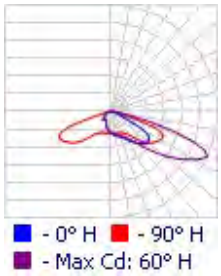
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (13 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 P202 R3 3K

Cycle Spacing:	81.84 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	6679
Staggered:	False	Wattage:	49
Light Loss Factor:	0.88	Lamp Count:	1



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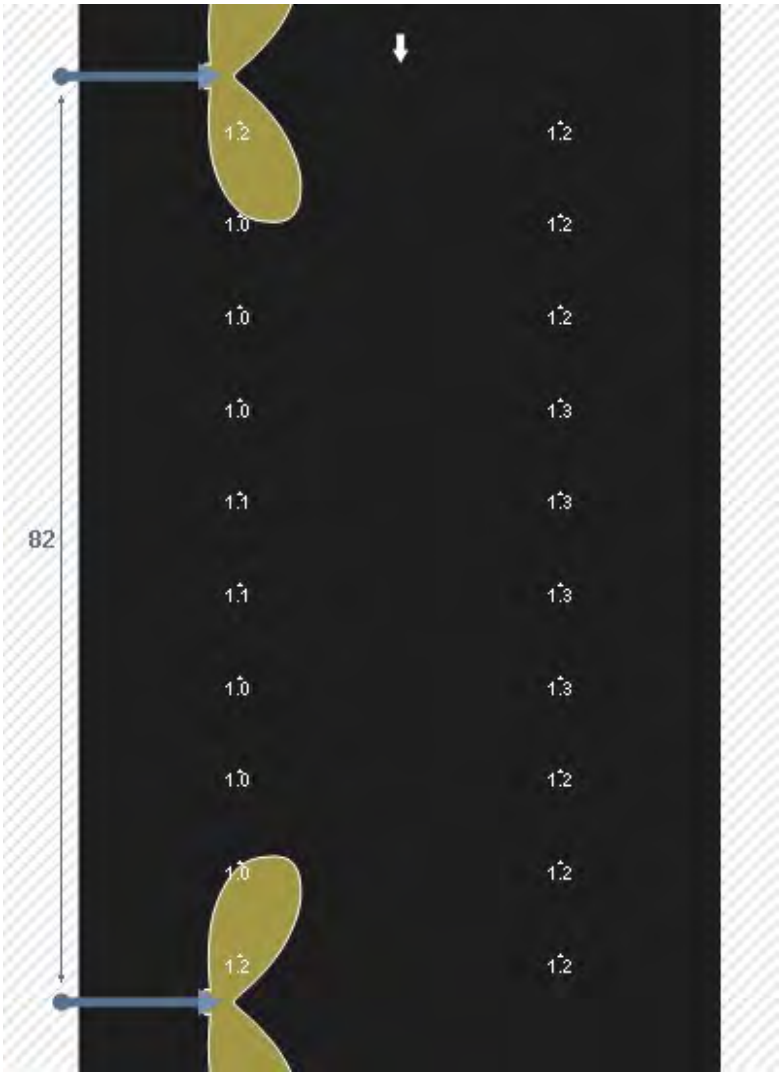

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.3	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

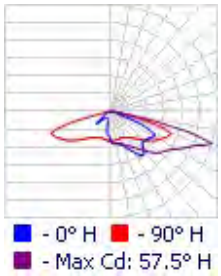
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

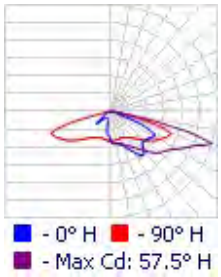
Left Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	False	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATBMIC 10BLEDE85 XXXXX R3 3K

Cycle Spacing:	73.26 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	3281
Staggered:	True	Wattage:	29
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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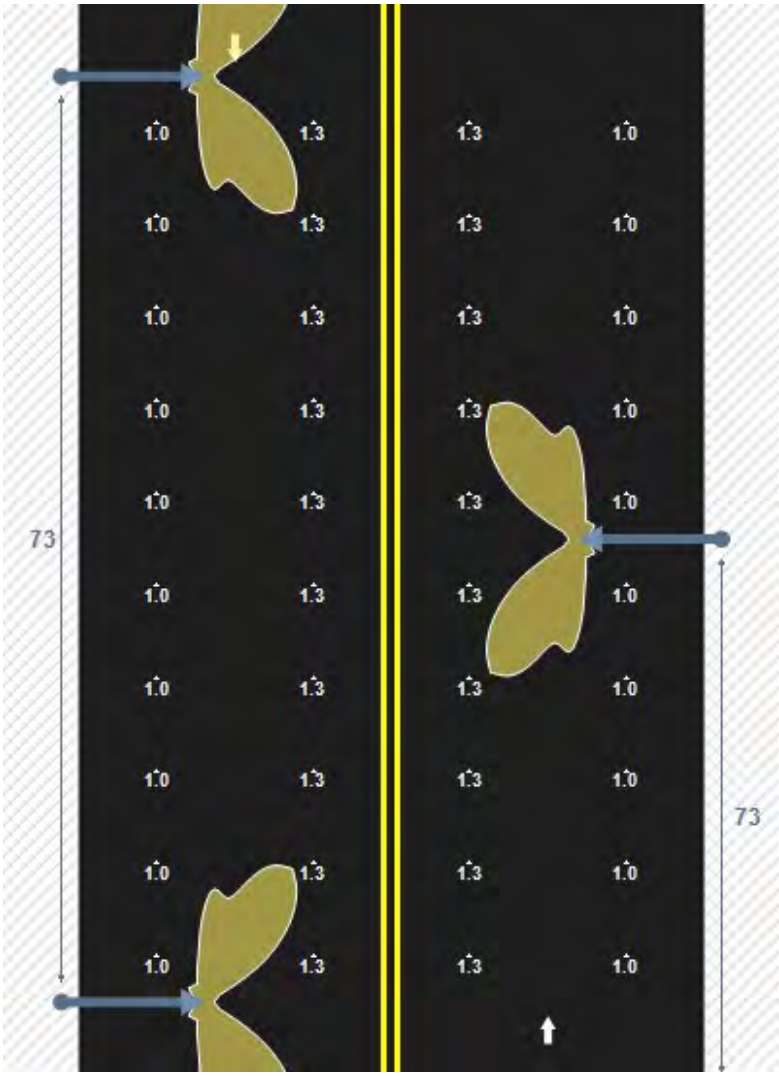

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	0.9	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

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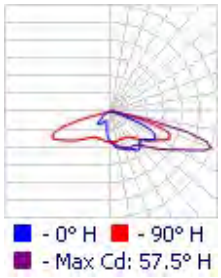
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

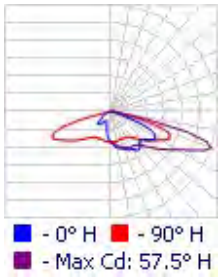
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	238.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	238.85 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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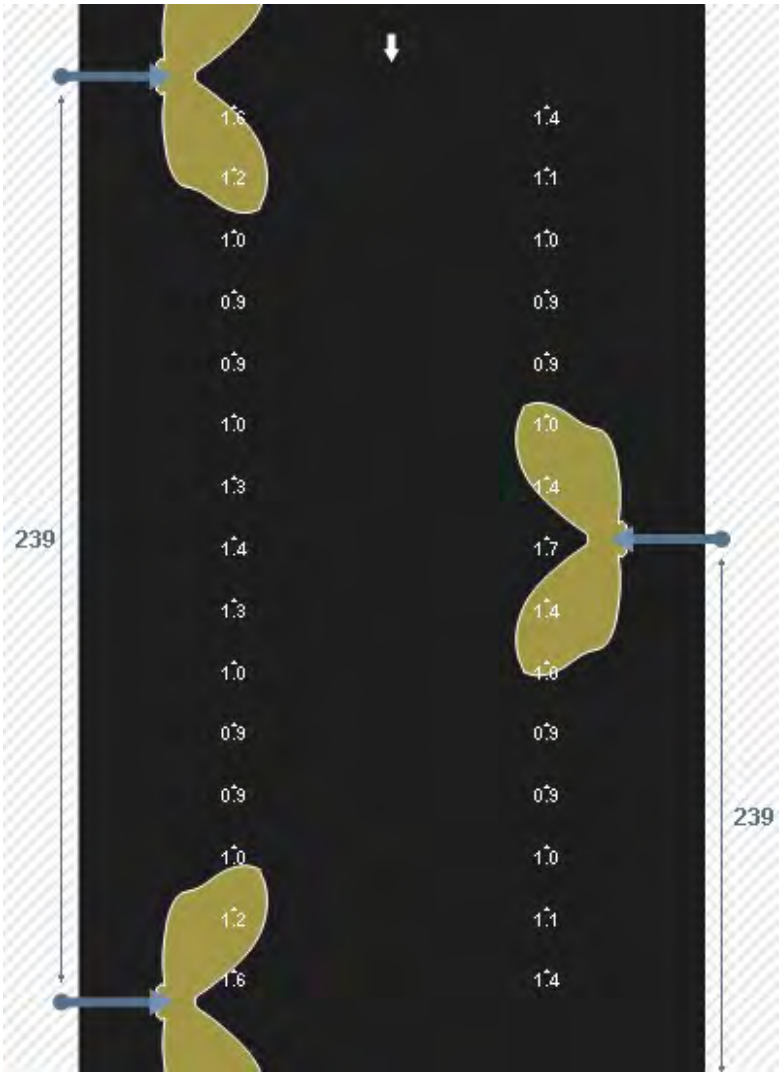

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

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Project Description

User Name
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Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	117.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	117.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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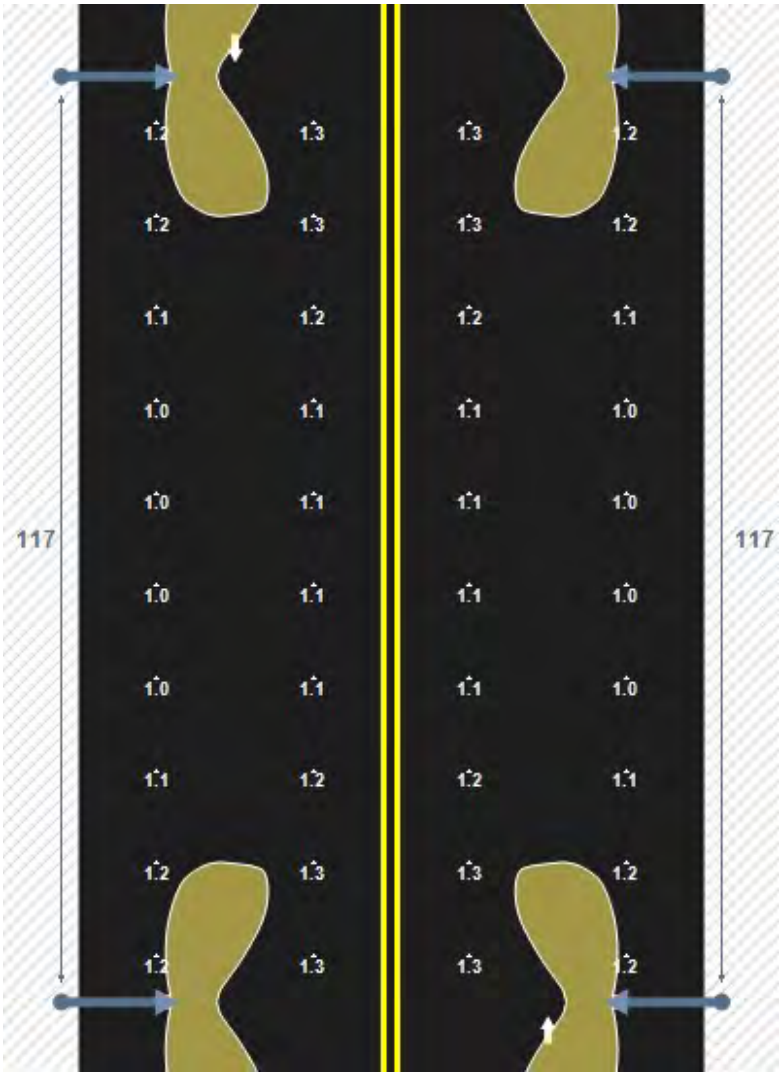
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
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Your Email

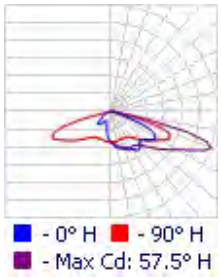
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	100 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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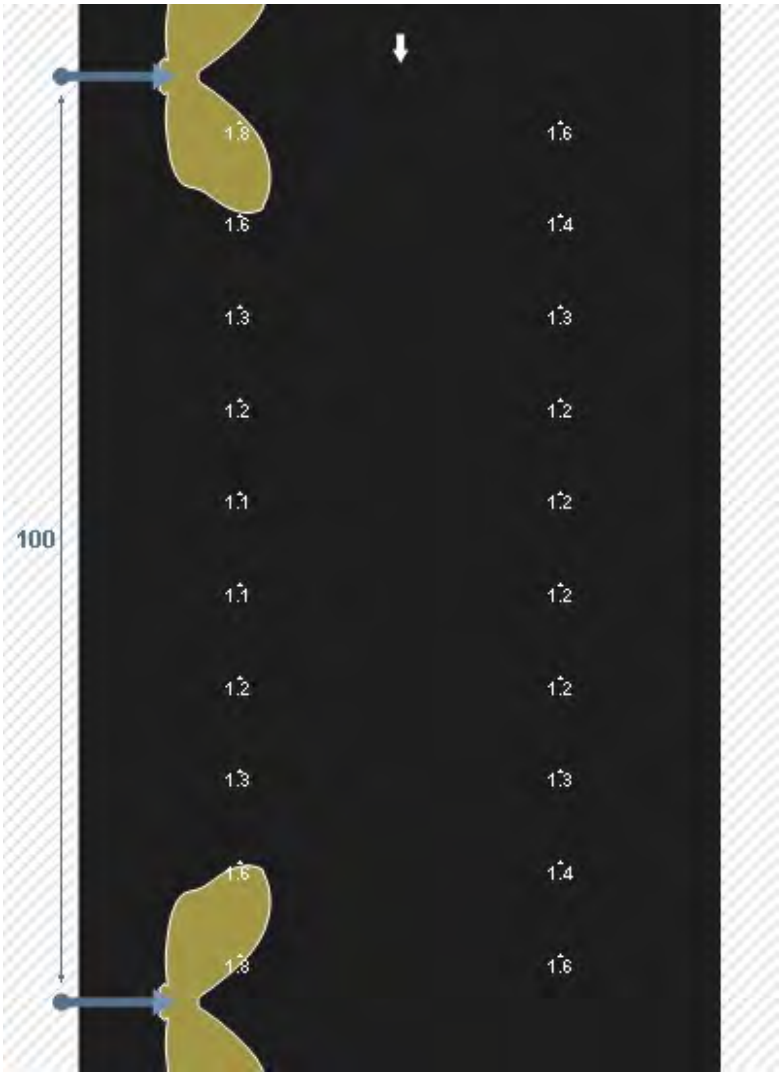

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.8	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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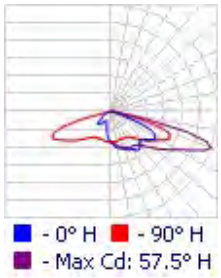
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

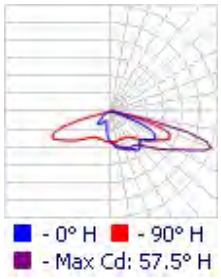
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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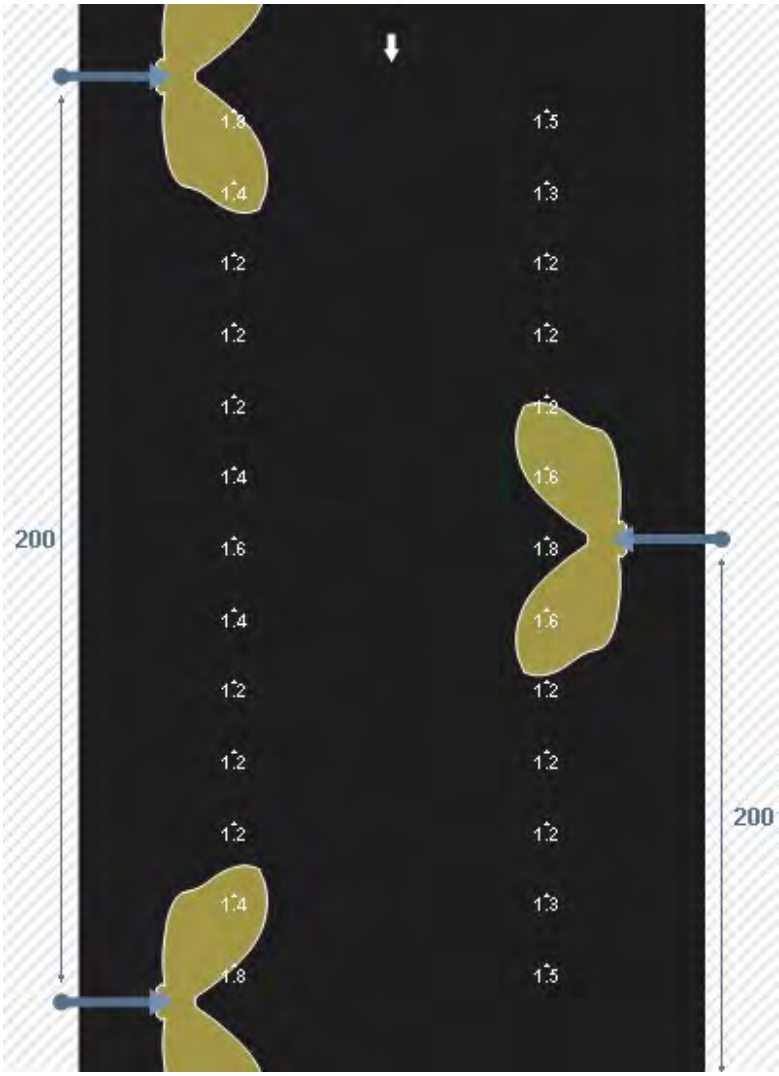

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.5	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.8	--	fc
Min	1.2	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

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Company Name
Your Phone
Your Email

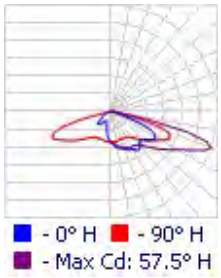
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

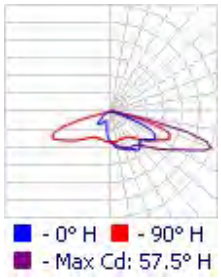
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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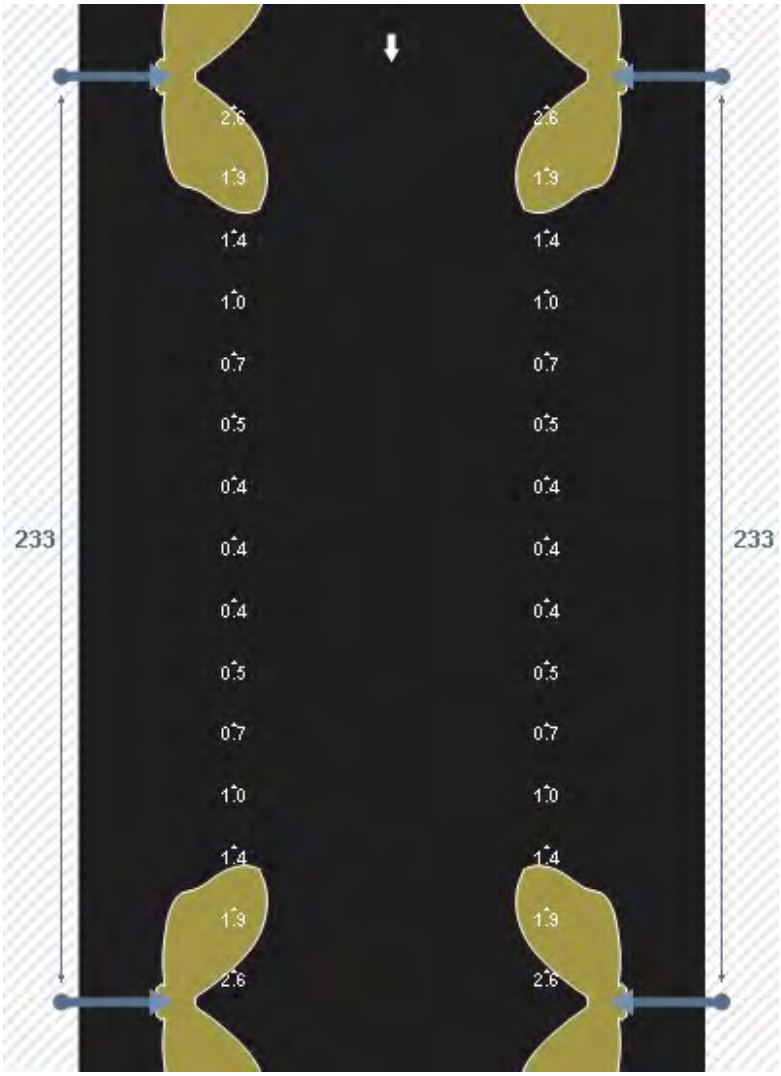

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2.1	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Project Description

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Company Name
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Your Email

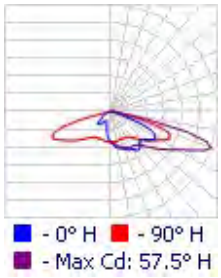
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	118.44 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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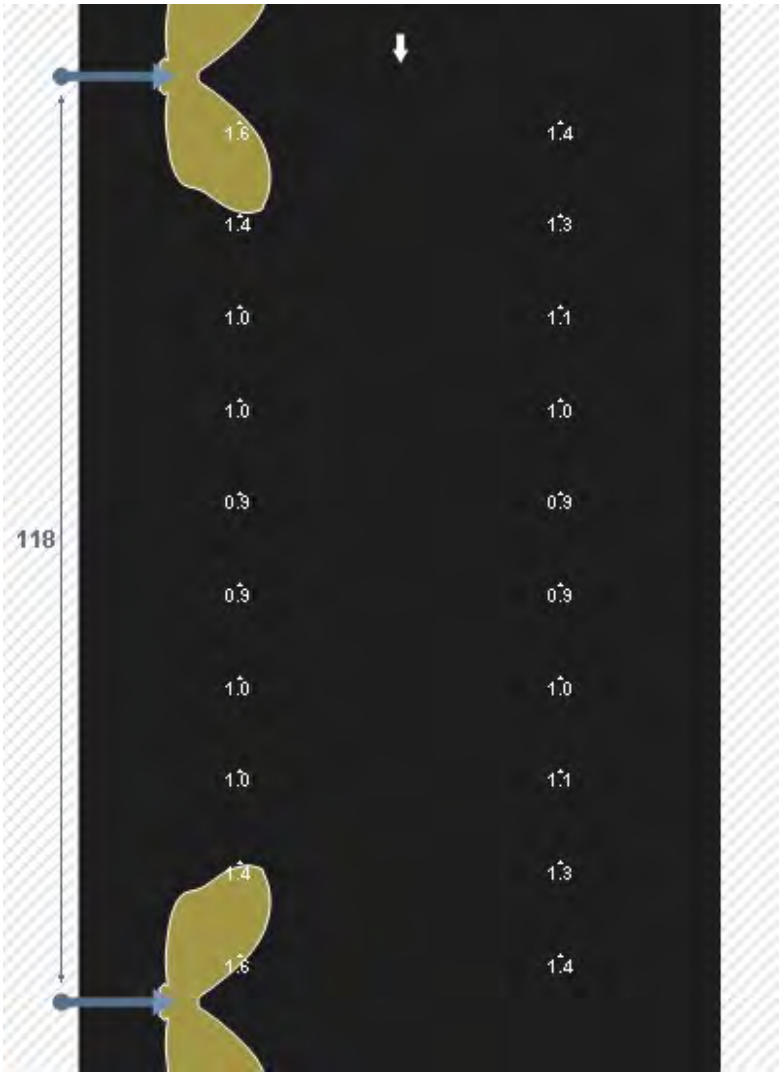

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

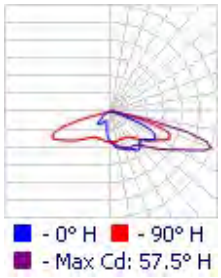
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

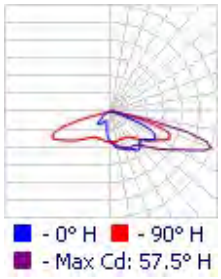
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	233.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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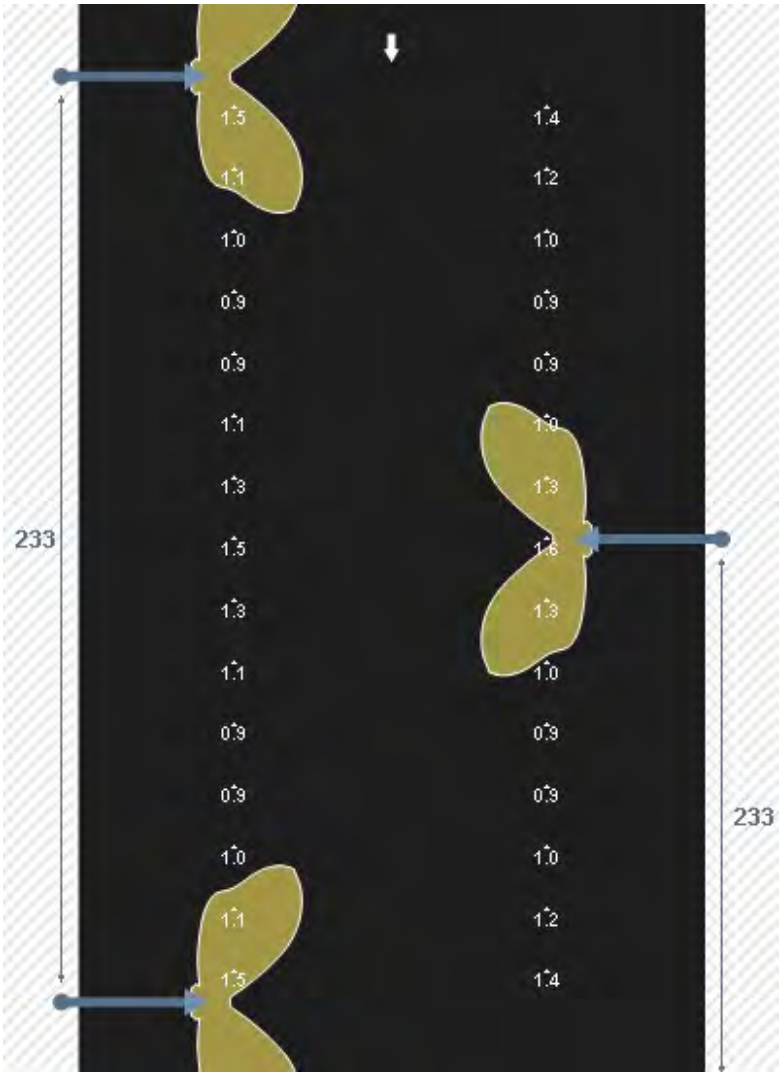

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	117.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	117.2 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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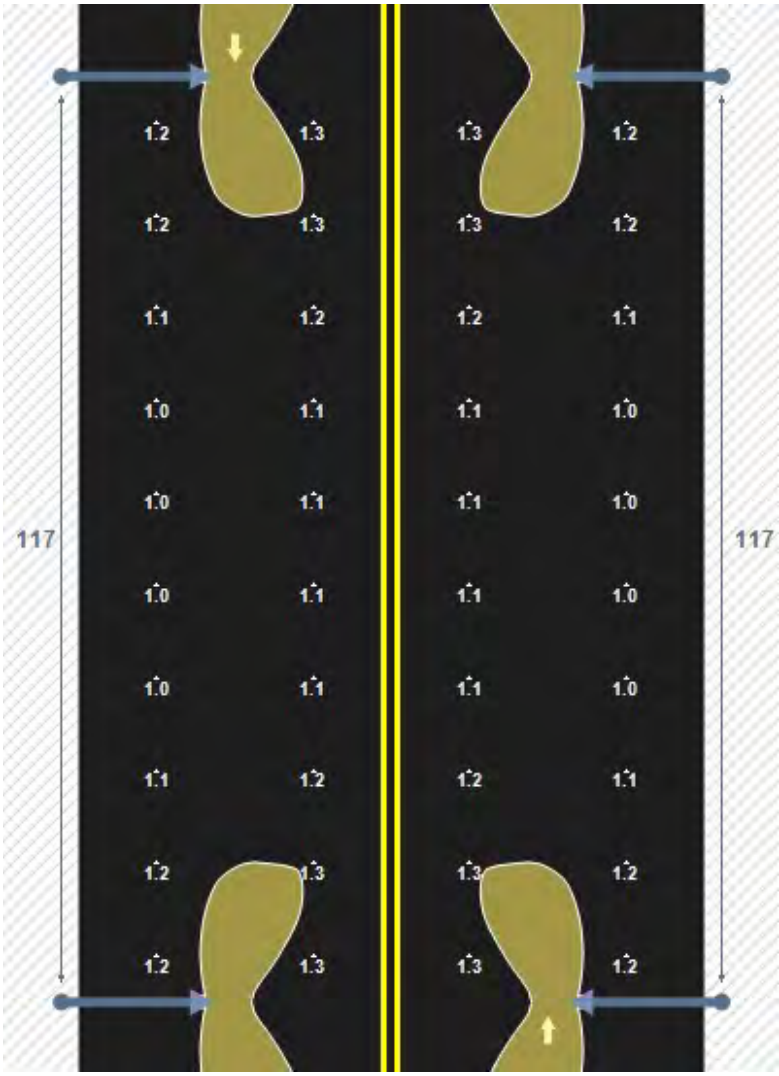

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

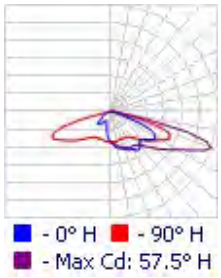
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	100 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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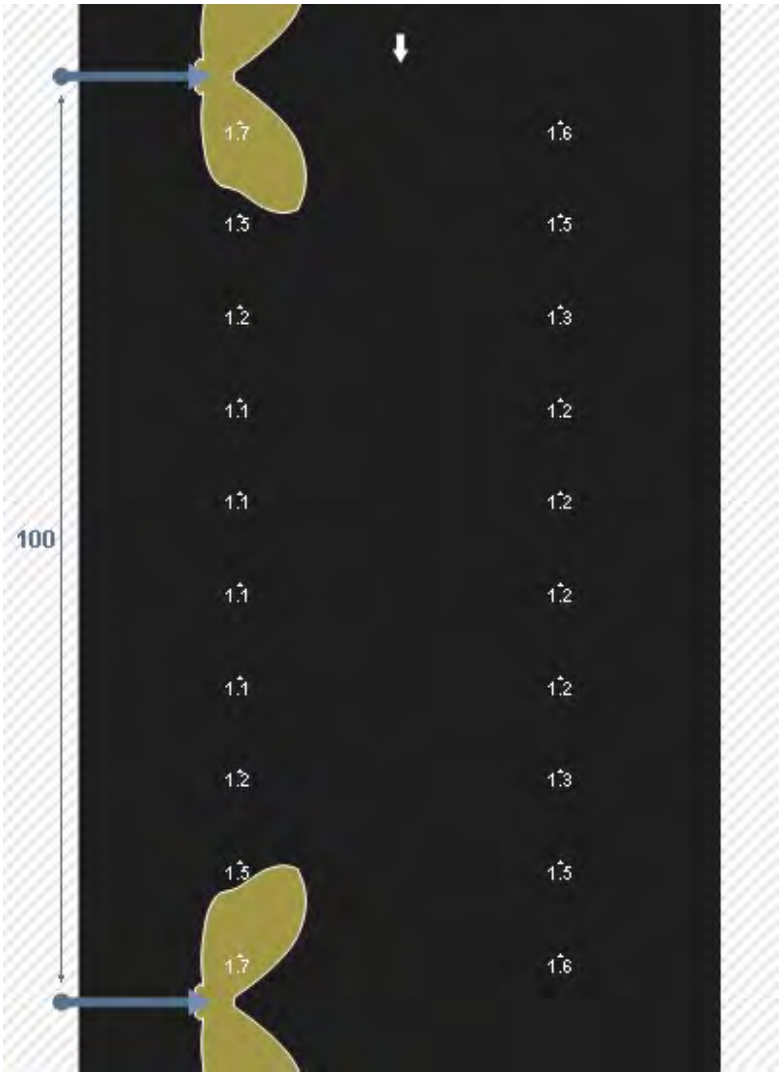

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

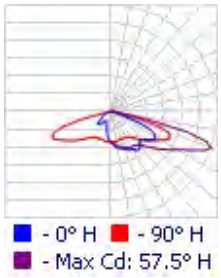
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

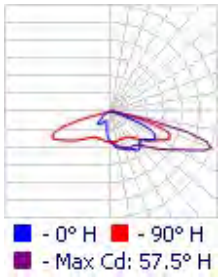
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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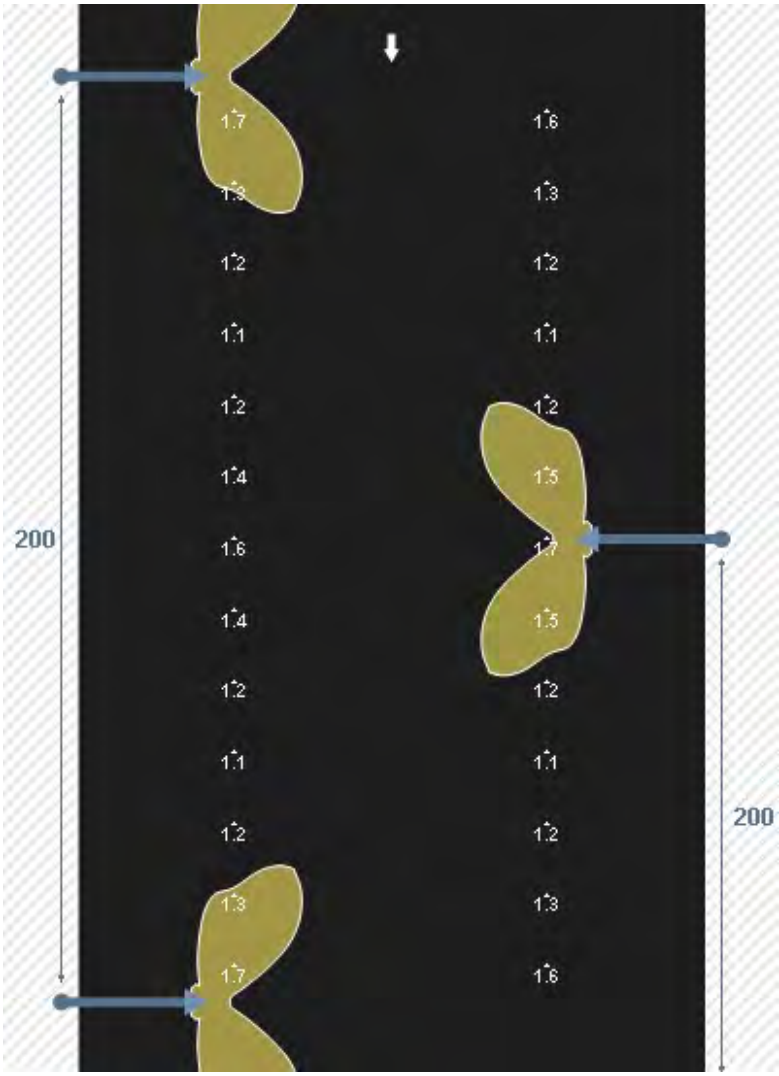

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.5	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

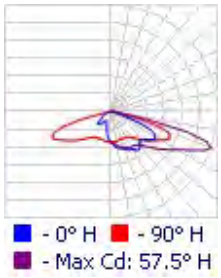
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

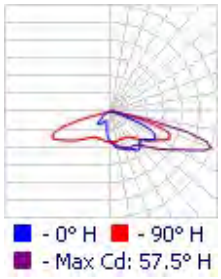
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	234.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	234.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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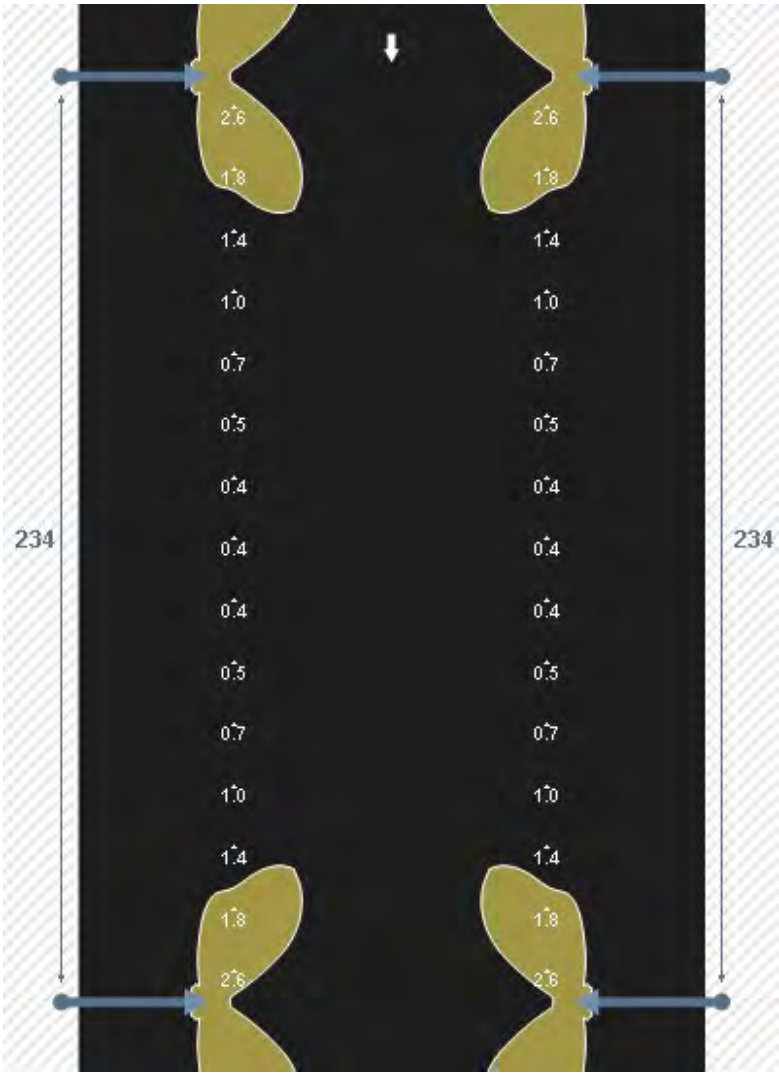

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

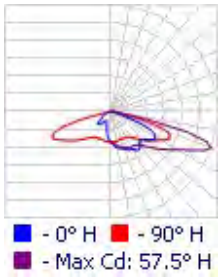
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	116.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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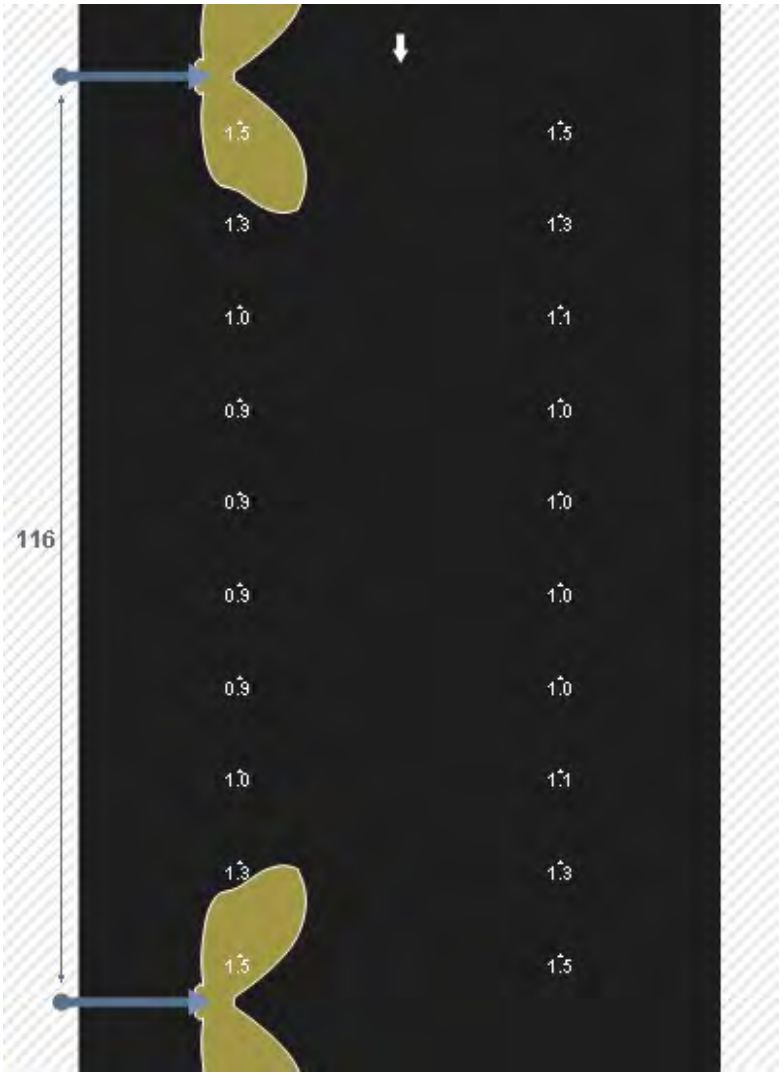
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

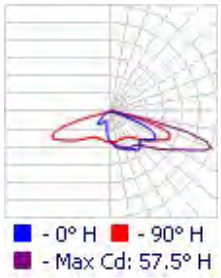
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

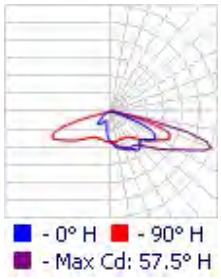
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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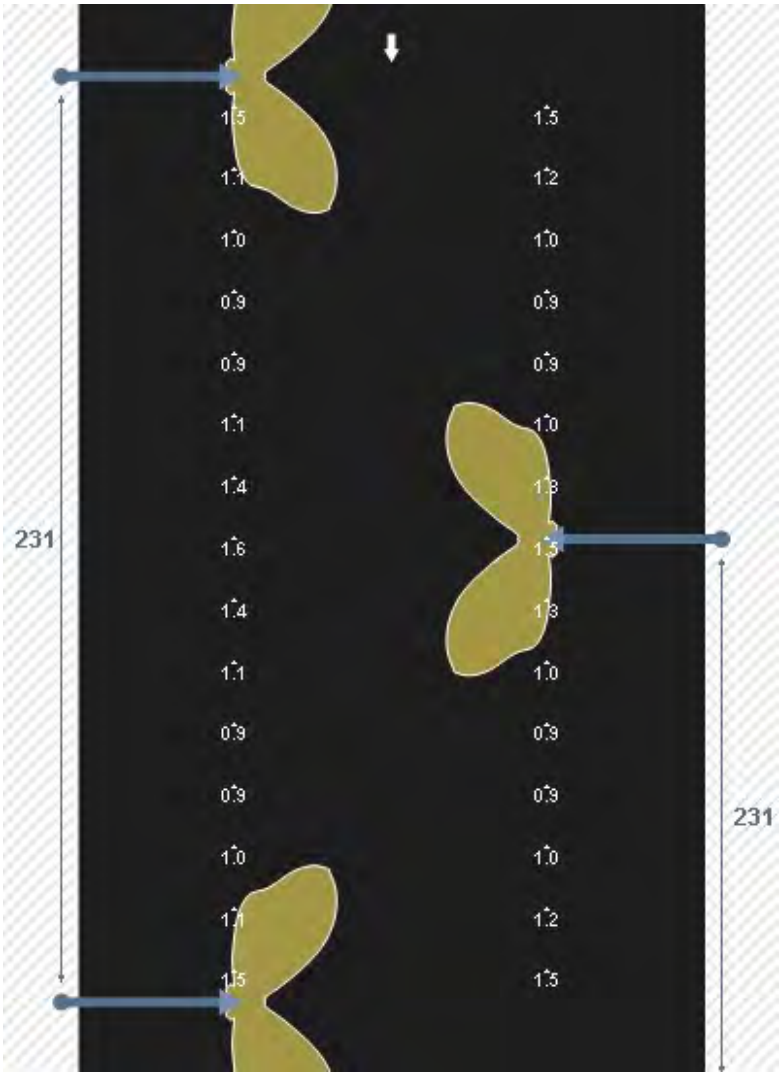

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	115.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	115.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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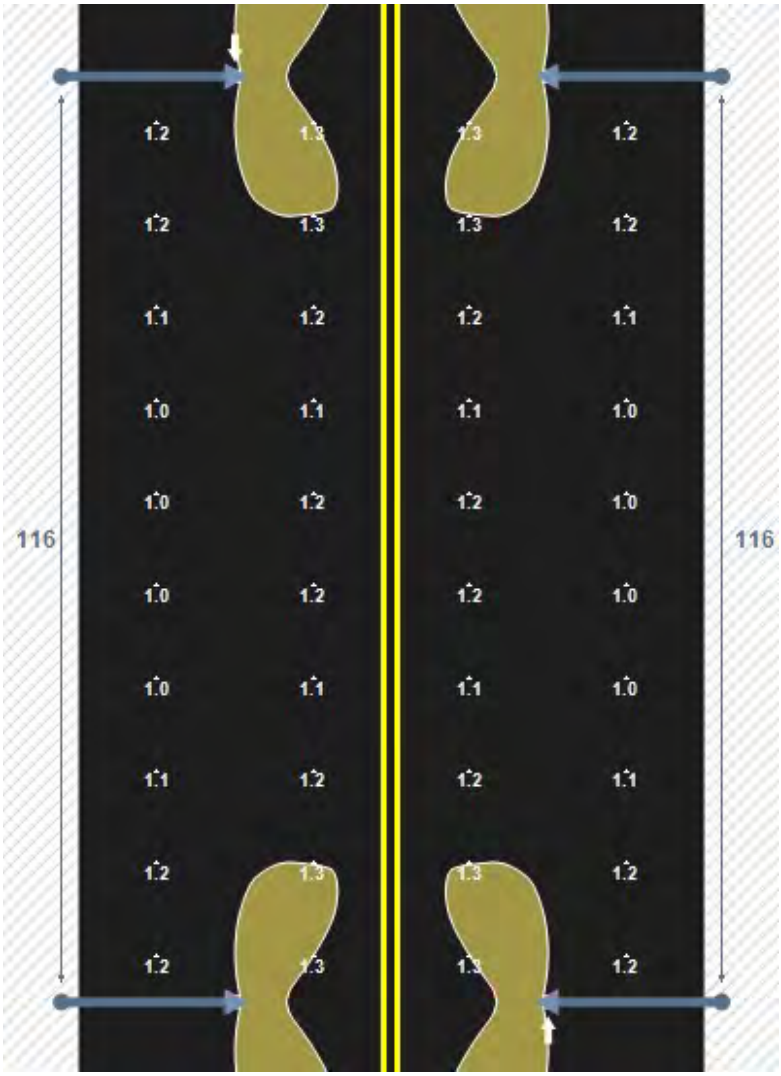

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

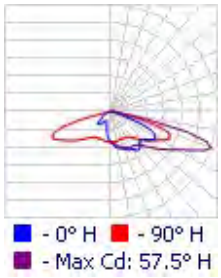
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	105 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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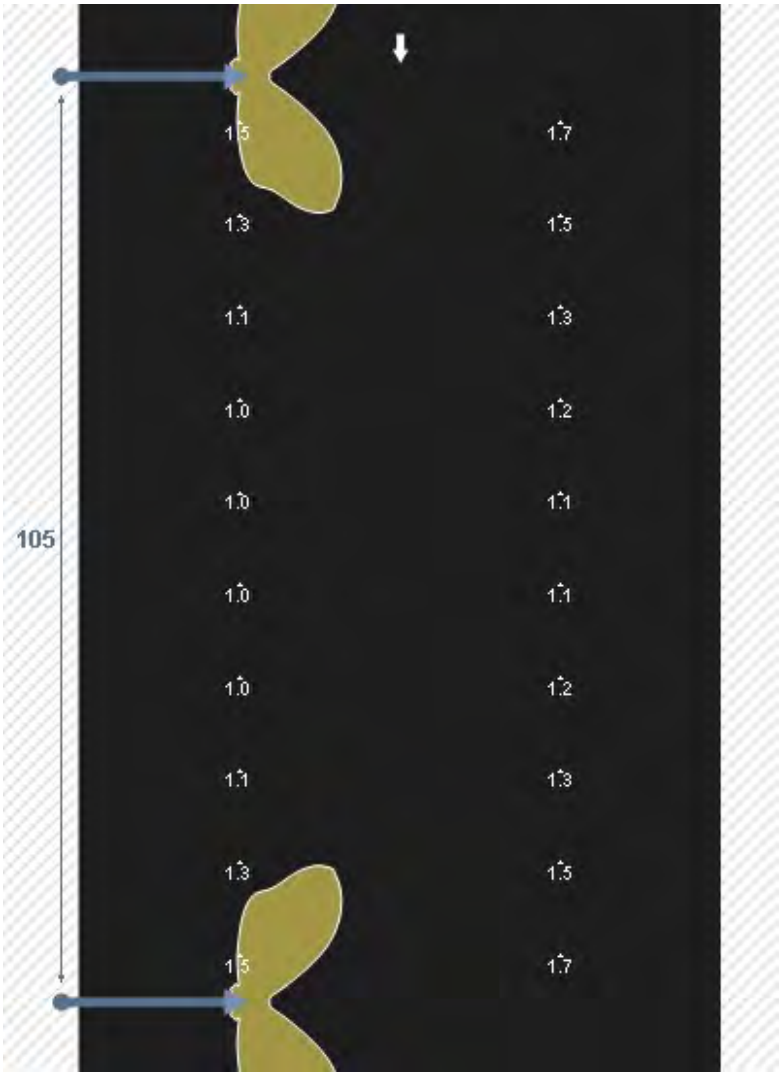

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

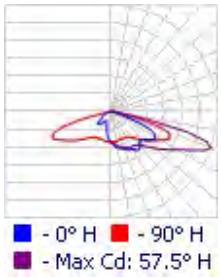
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

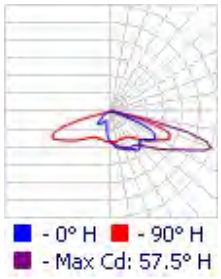
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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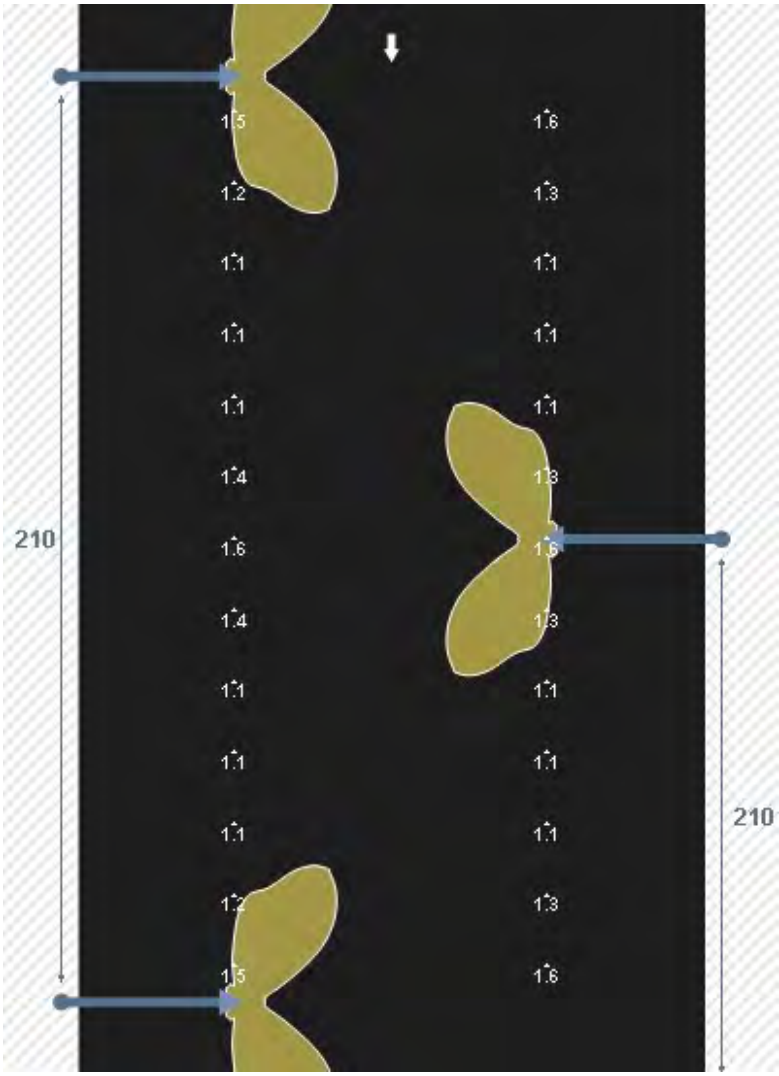

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.6	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

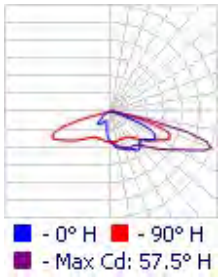
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

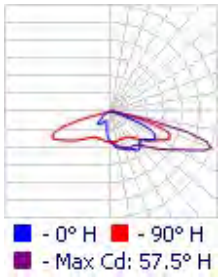
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.03 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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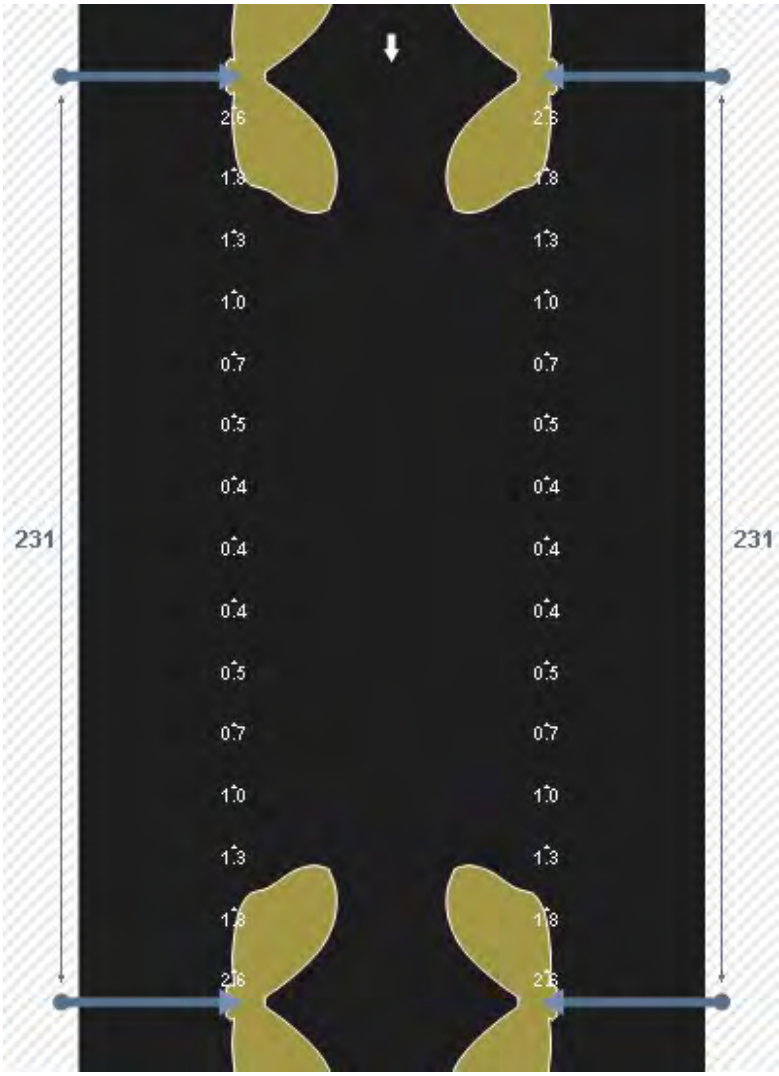

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	2.9	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

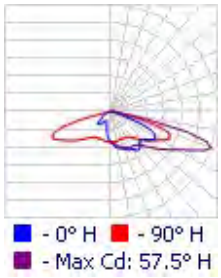
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	115.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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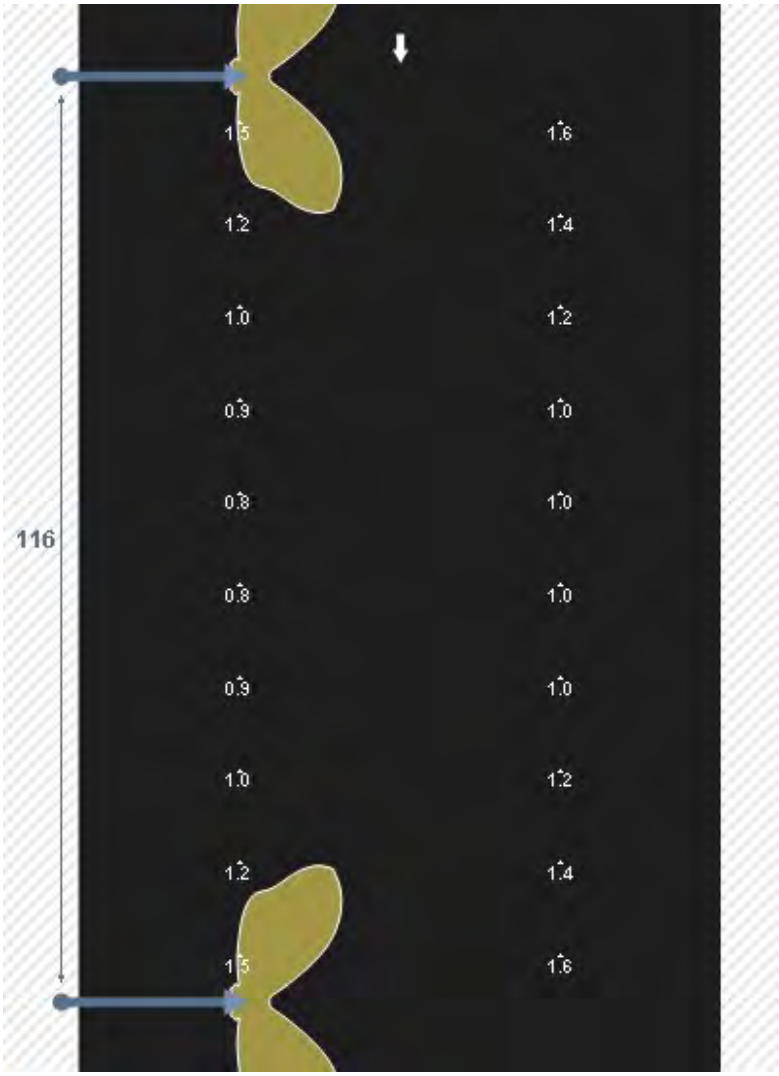

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.8	--	fc
Ave/Min:	1.4	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
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Your Email

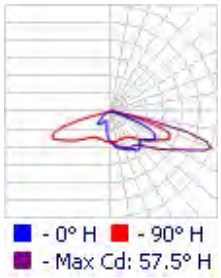
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

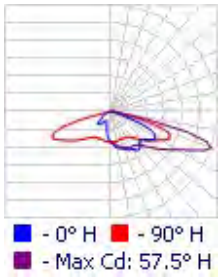
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	230.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	230.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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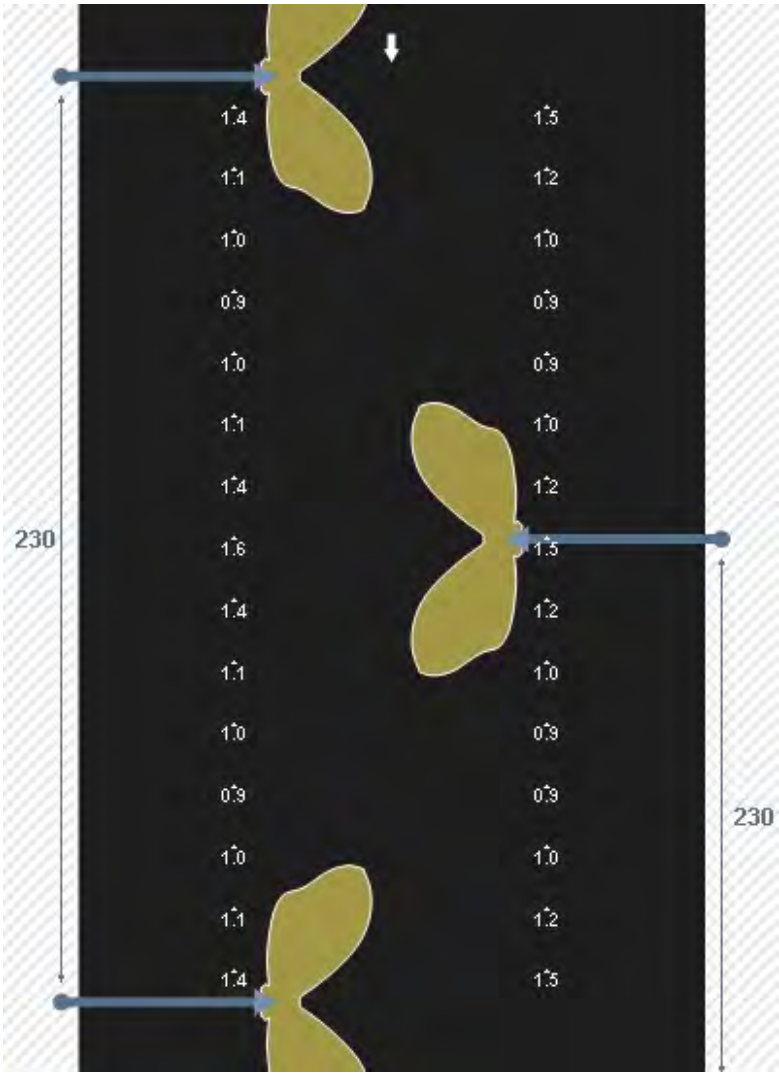

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	113.04 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	113.04 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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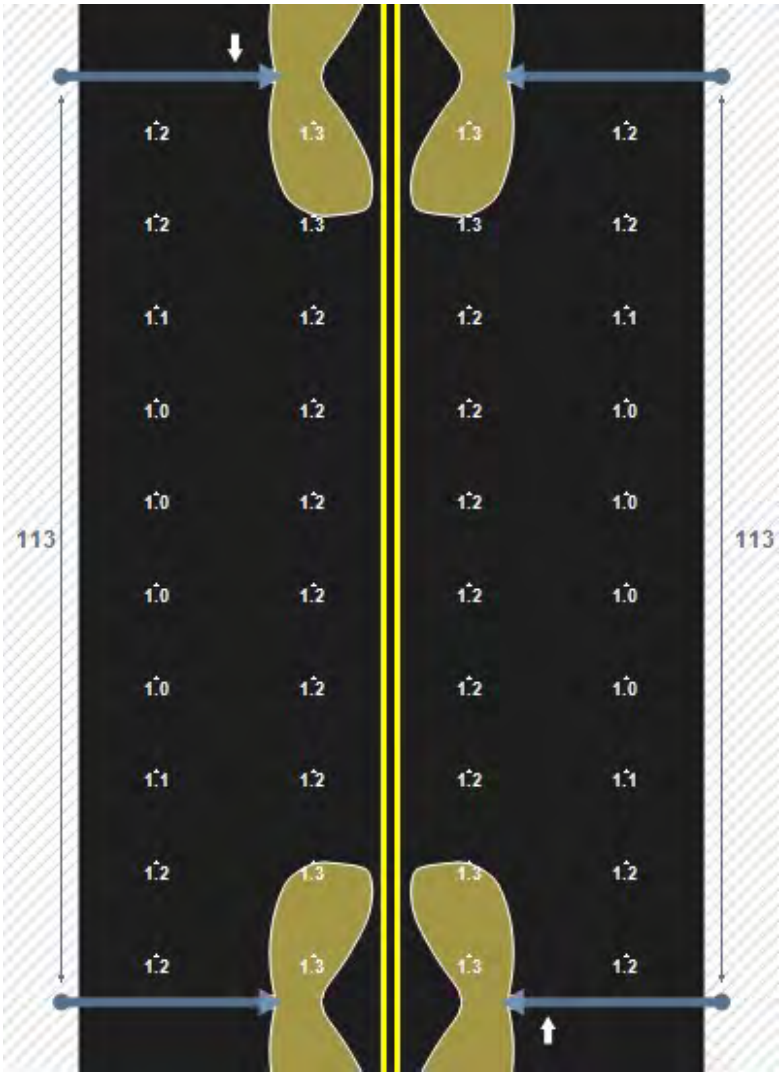

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.1	1.1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

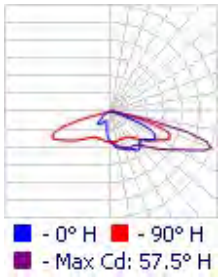
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	105 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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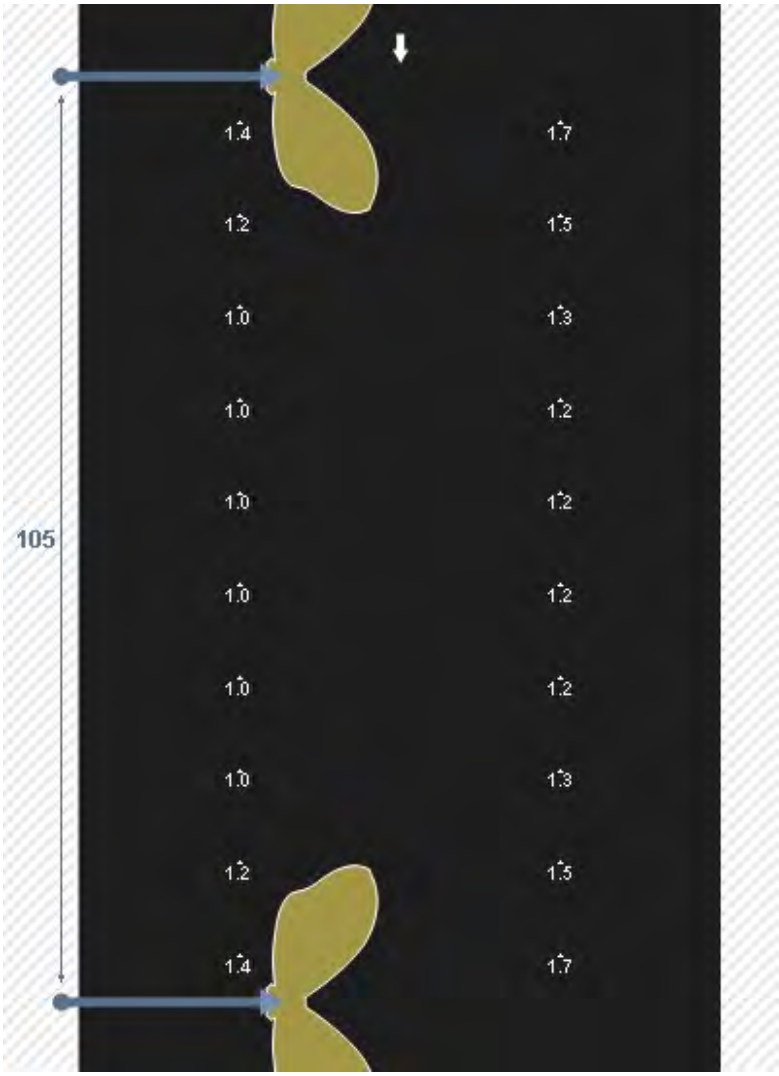

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	1	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

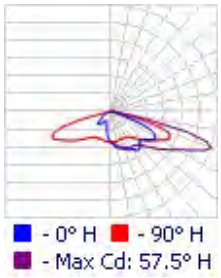
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

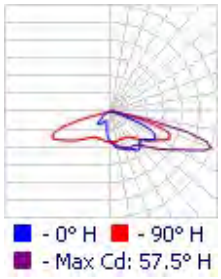
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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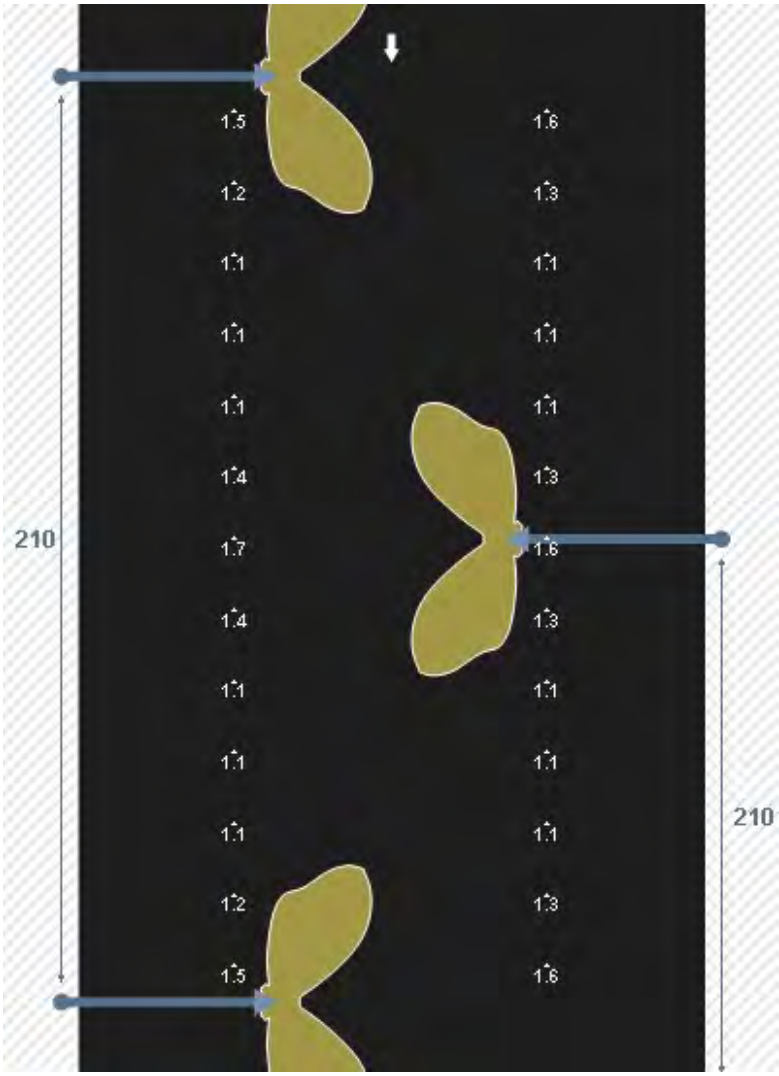

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

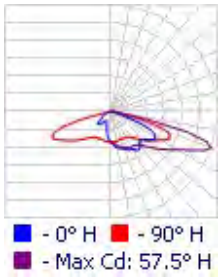
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

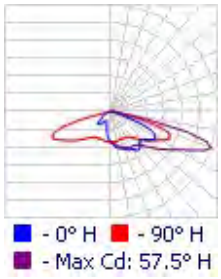
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	230.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	230.01 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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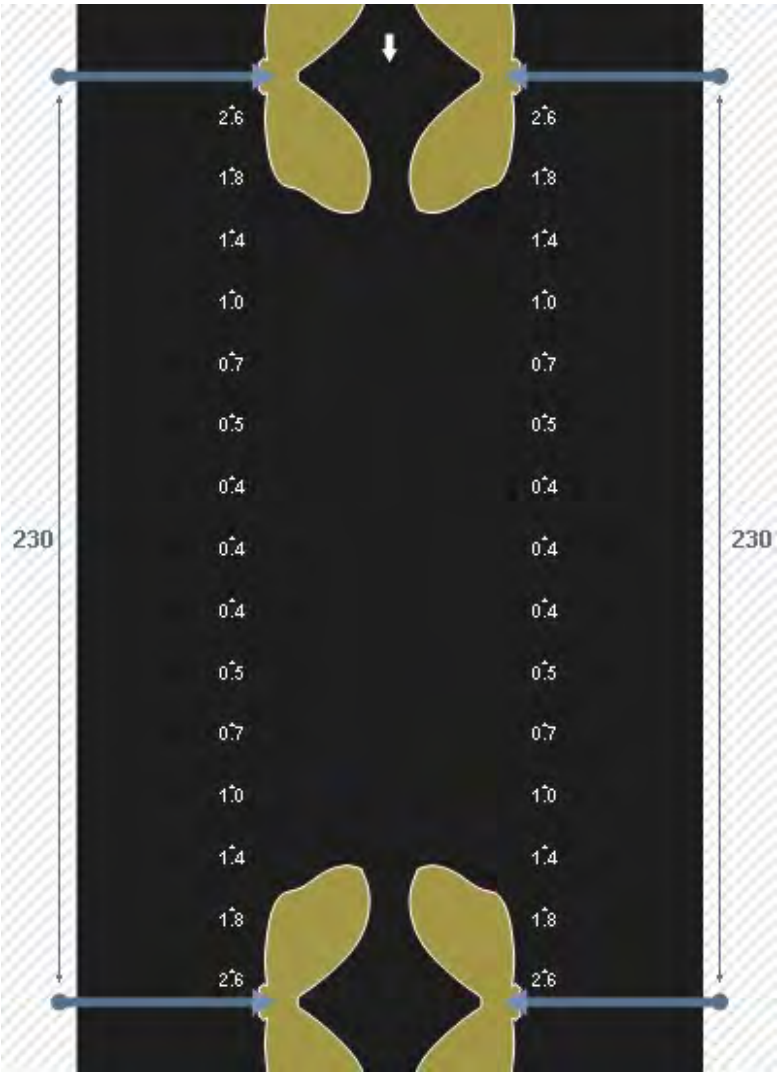

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.6	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

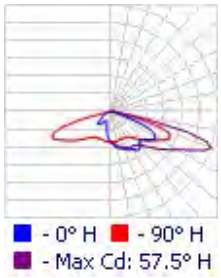
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	114 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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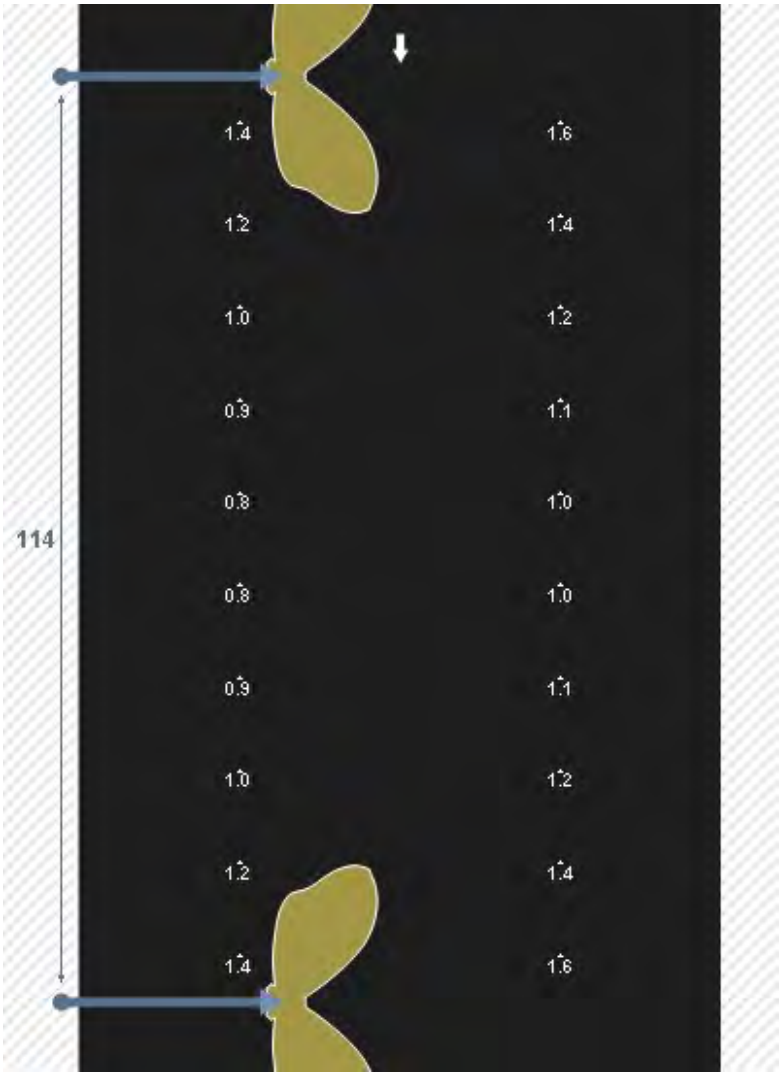

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.4	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

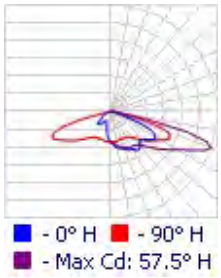
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

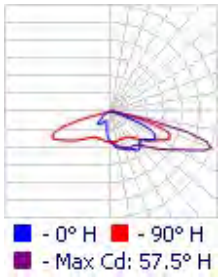
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	222.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	222.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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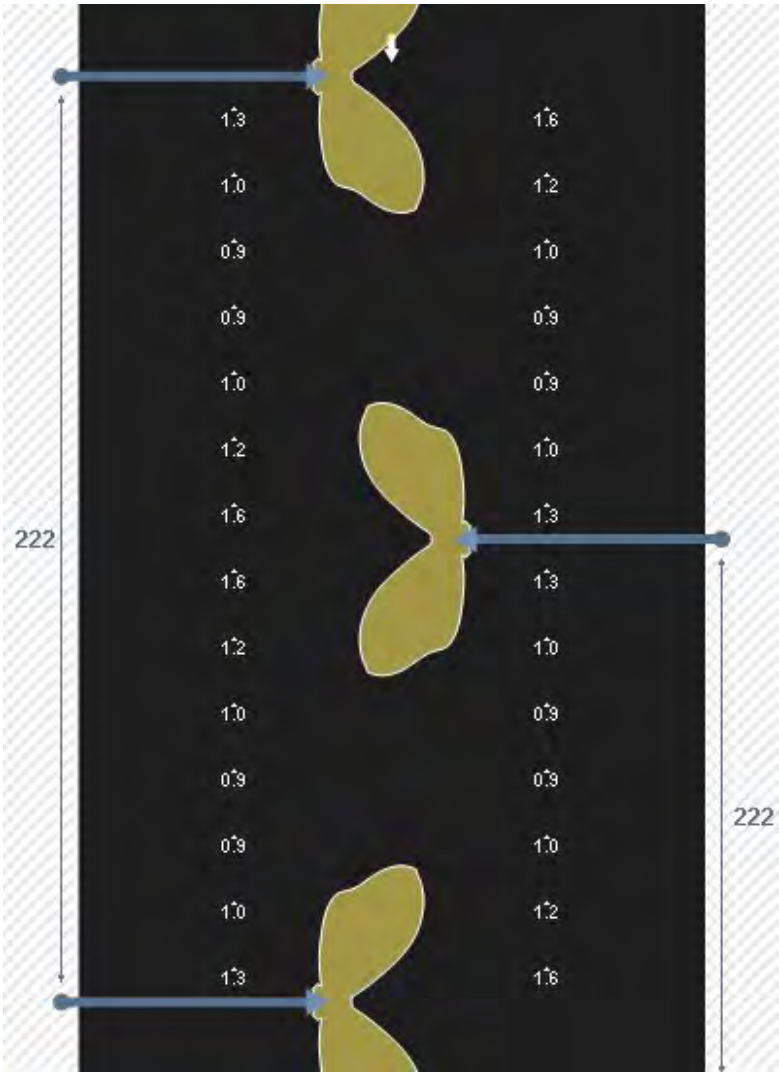

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	107.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	107.8 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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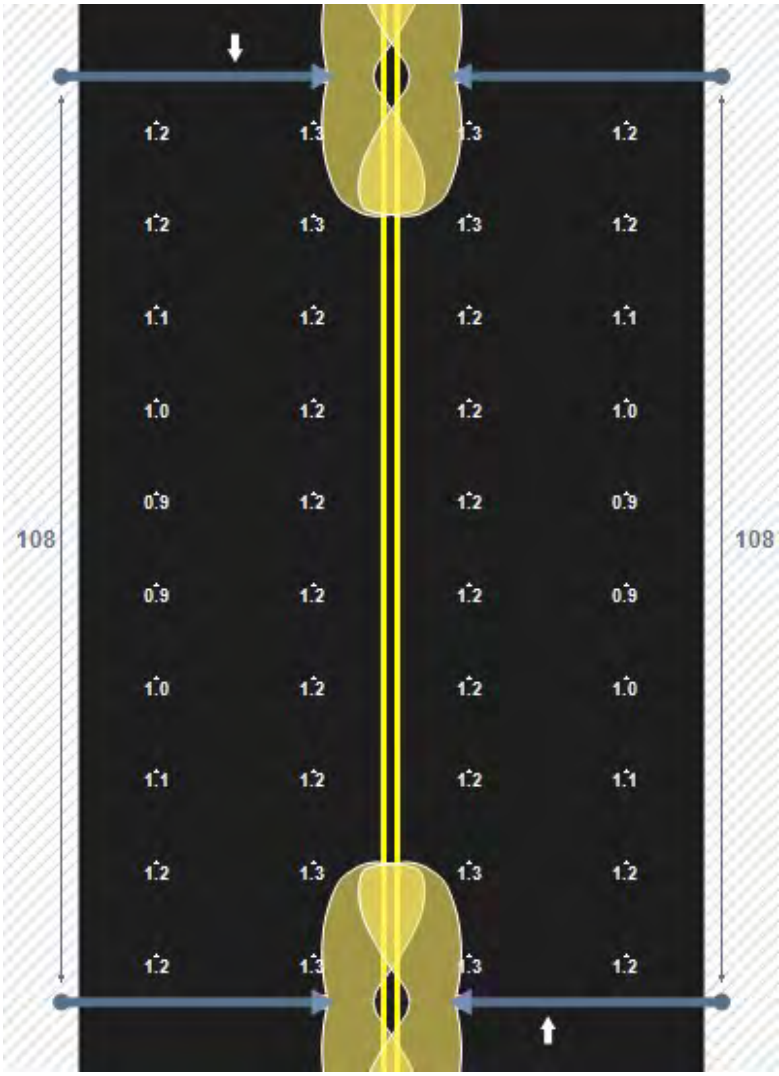

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	1.1	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.9	0.9	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	1	1	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	0.9	0.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

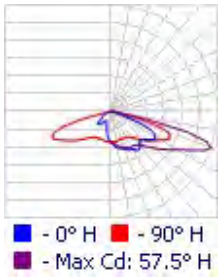
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	105 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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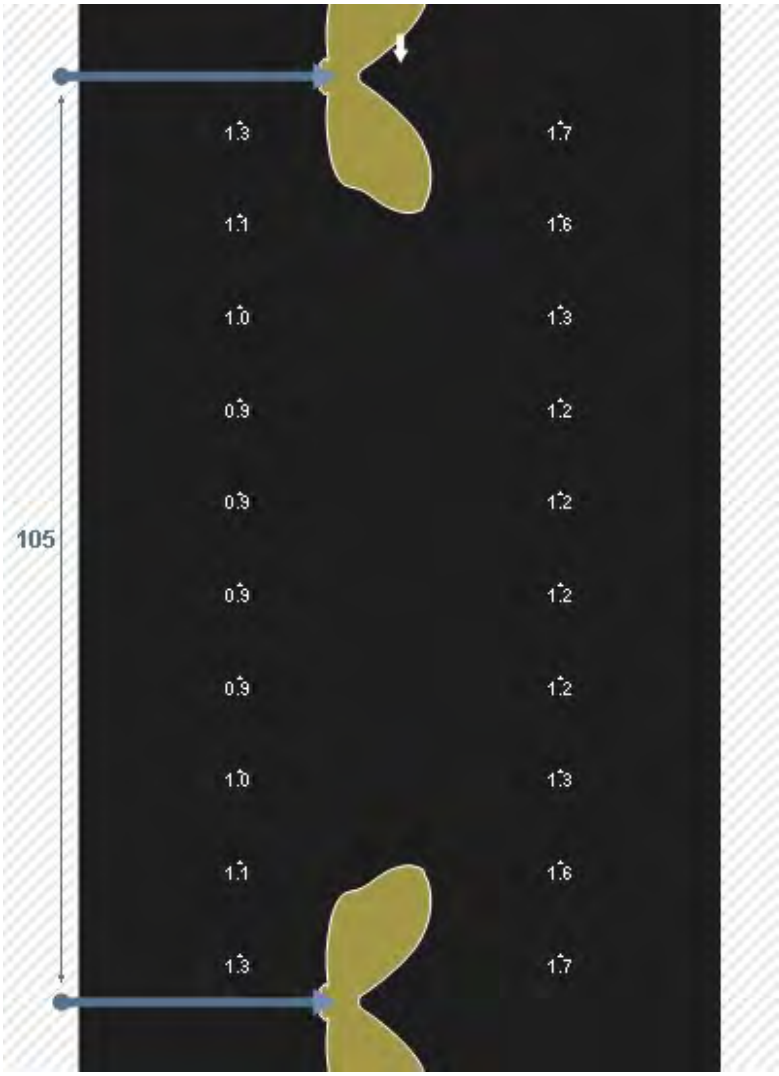

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.4	--	
Max/Min:	2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

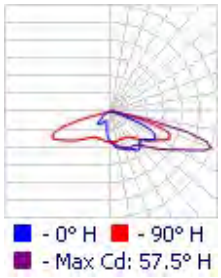
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

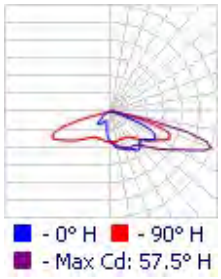
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	210 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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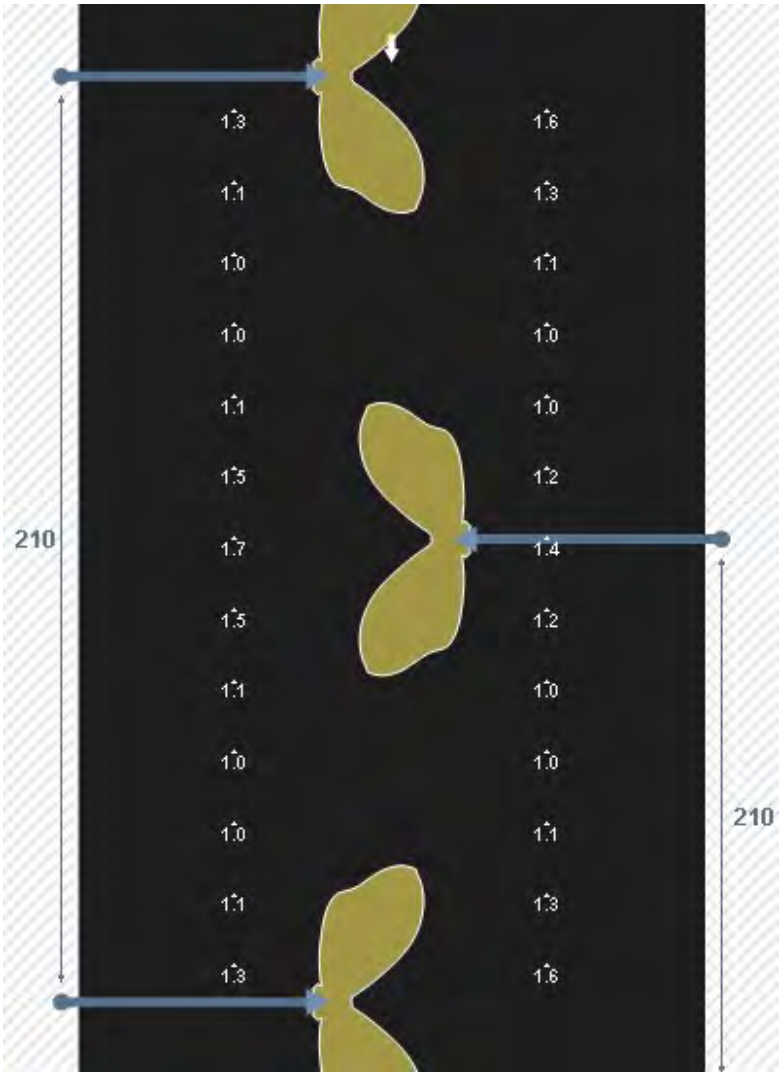

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.2	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

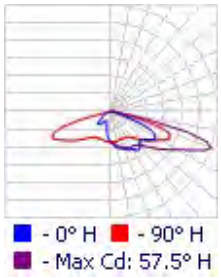
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

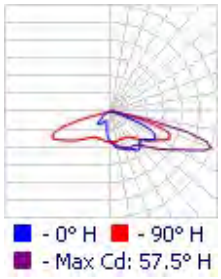
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	222.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	222.3 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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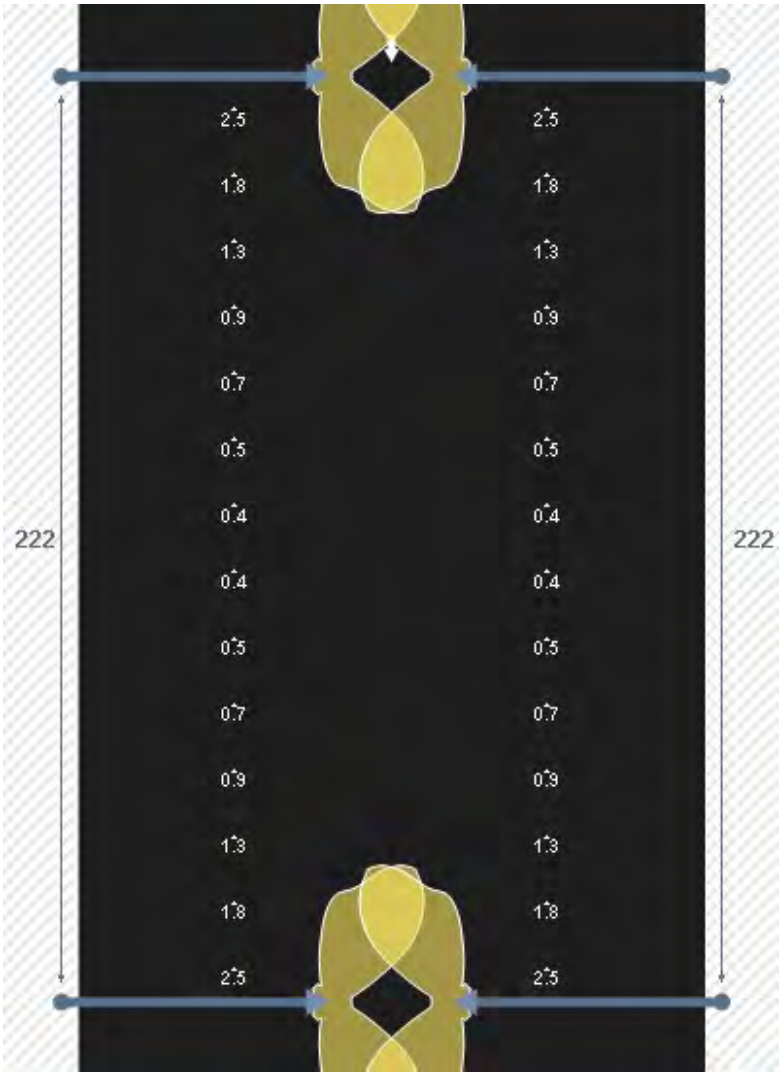

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.6	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	2.7	--	
Max/Min:	5.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

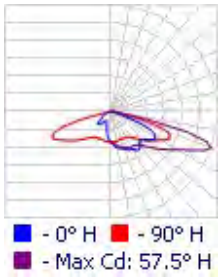
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	110.08 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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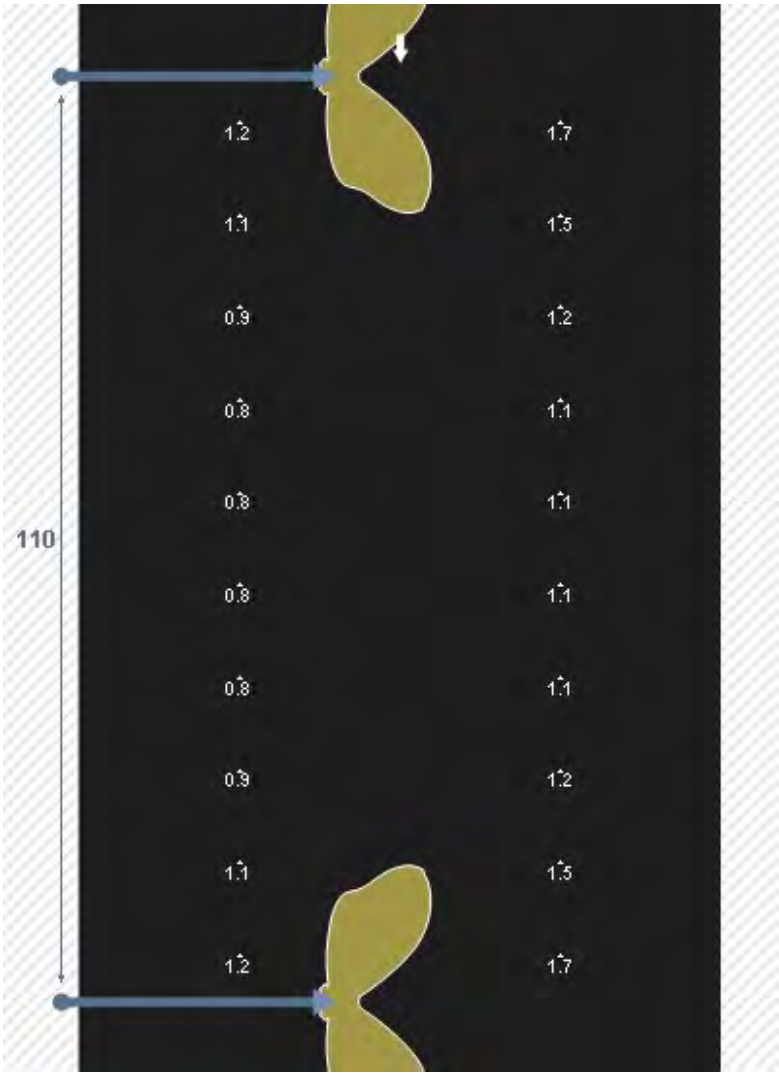

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.1	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.8	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.1	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

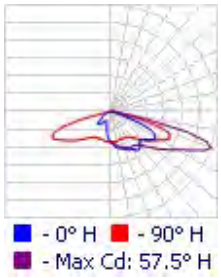
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

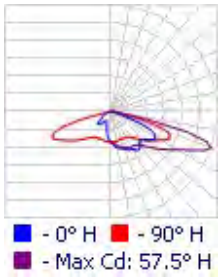
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.23 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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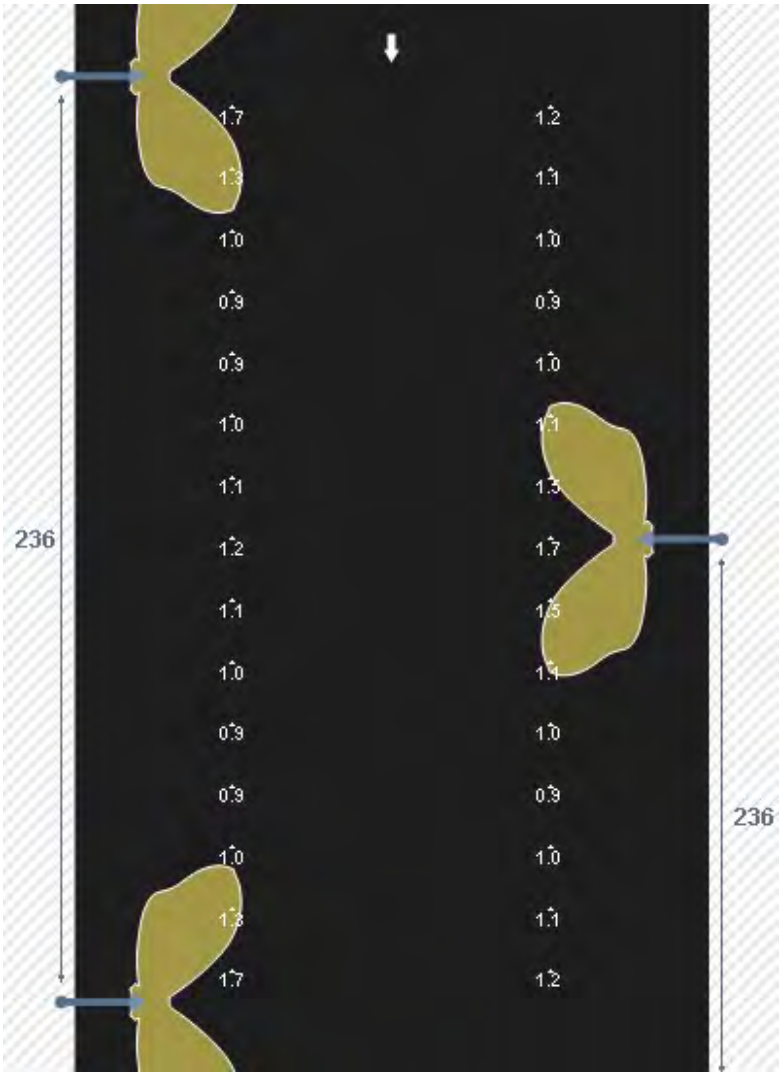

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	114.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	114.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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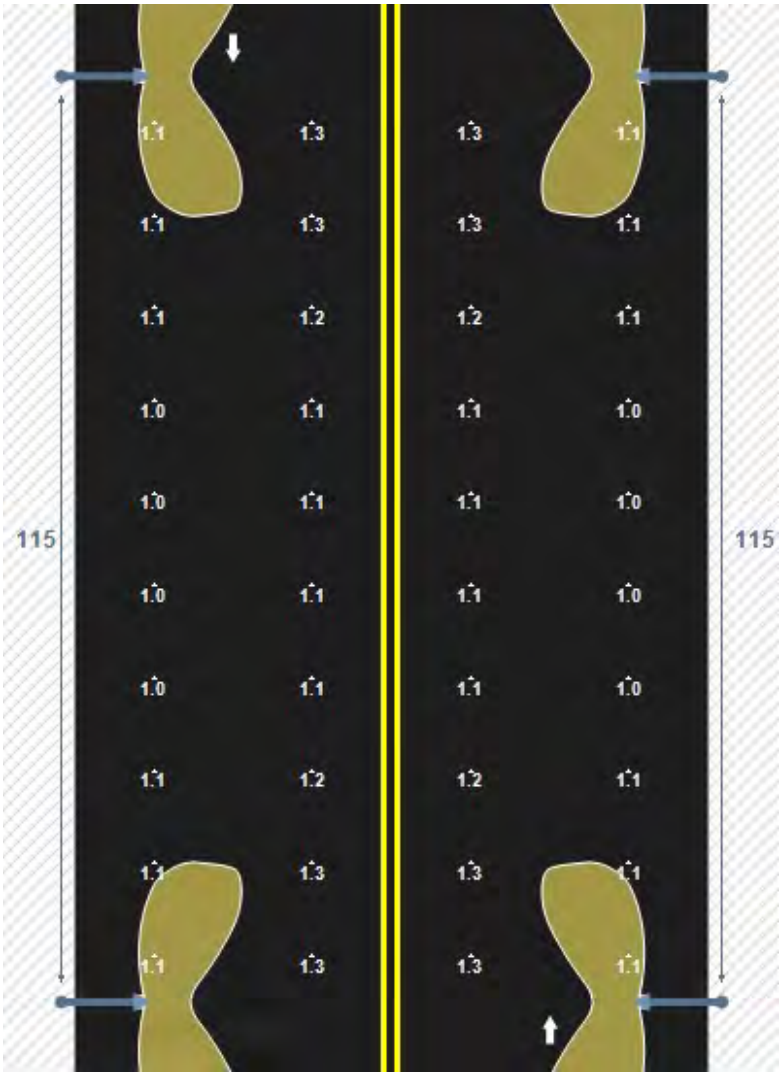

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

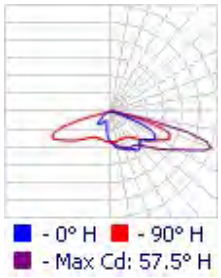
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	95 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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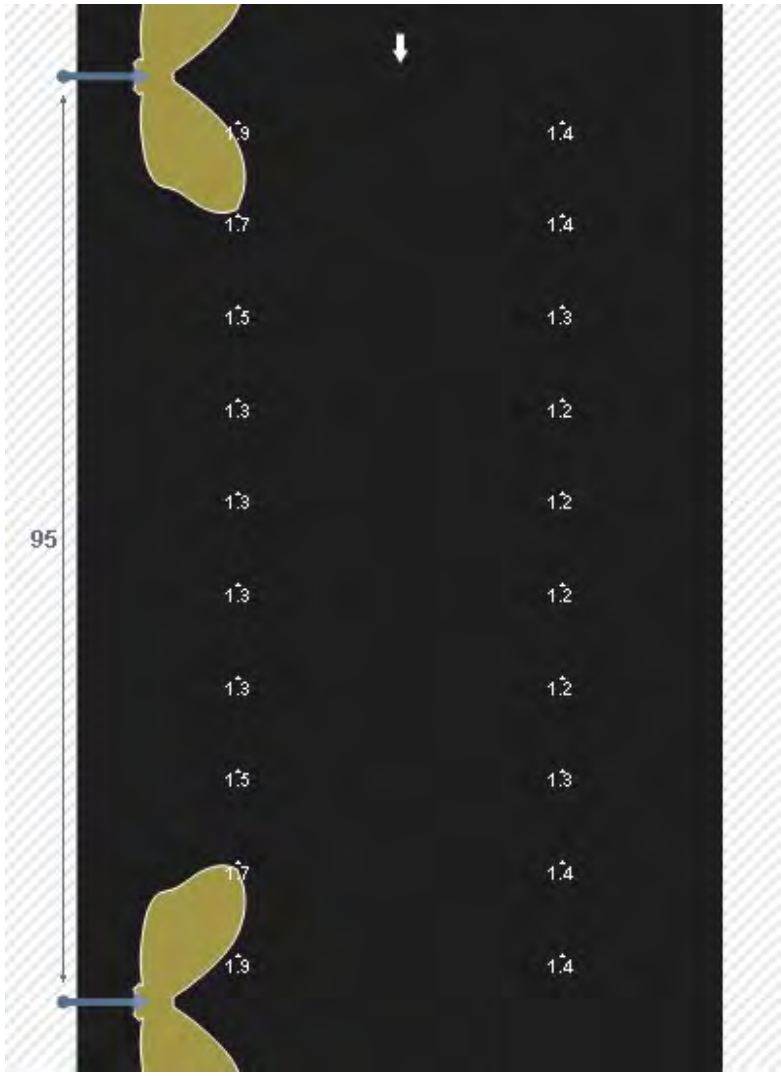

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.9	--	fc
Min	1.2	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

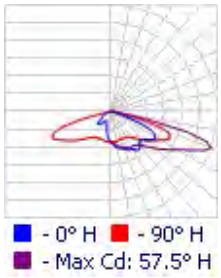
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

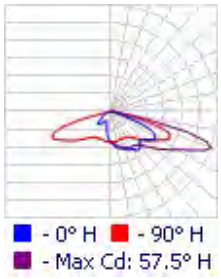
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	190 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	190 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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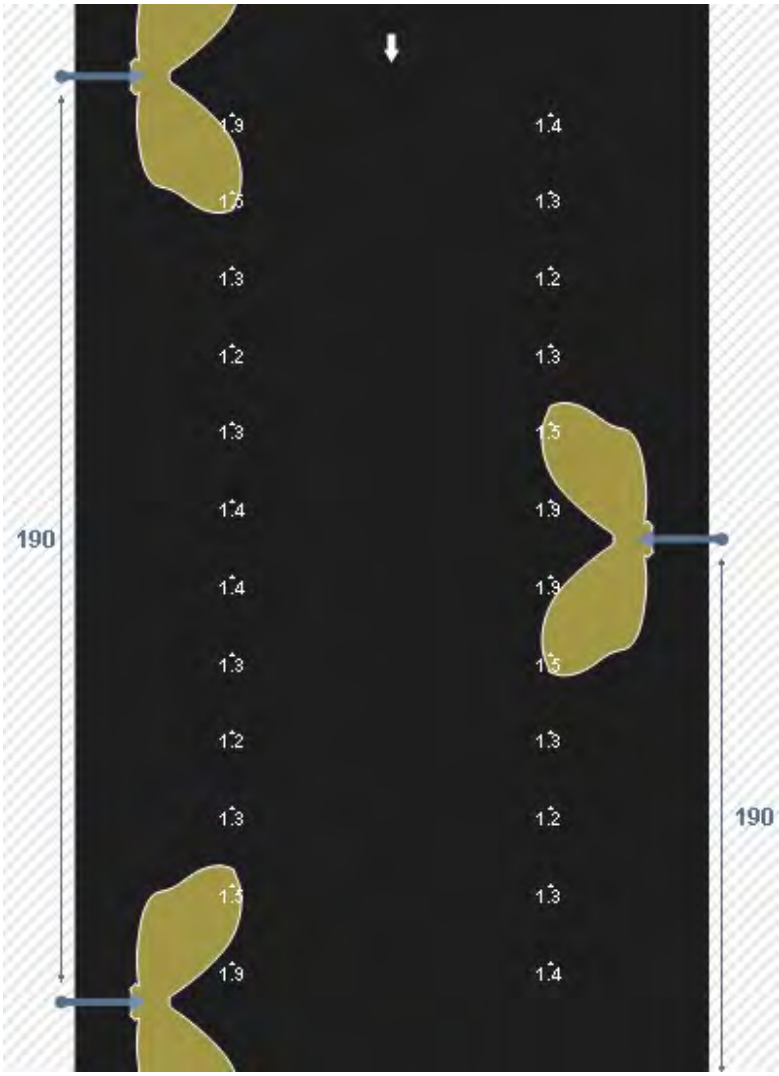

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.9	--	fc
Min	1.2	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

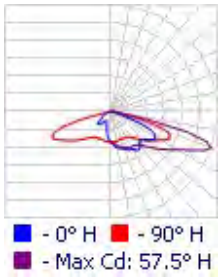
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

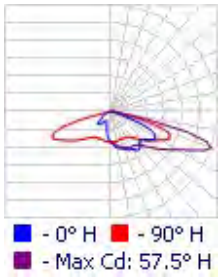
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	236.09 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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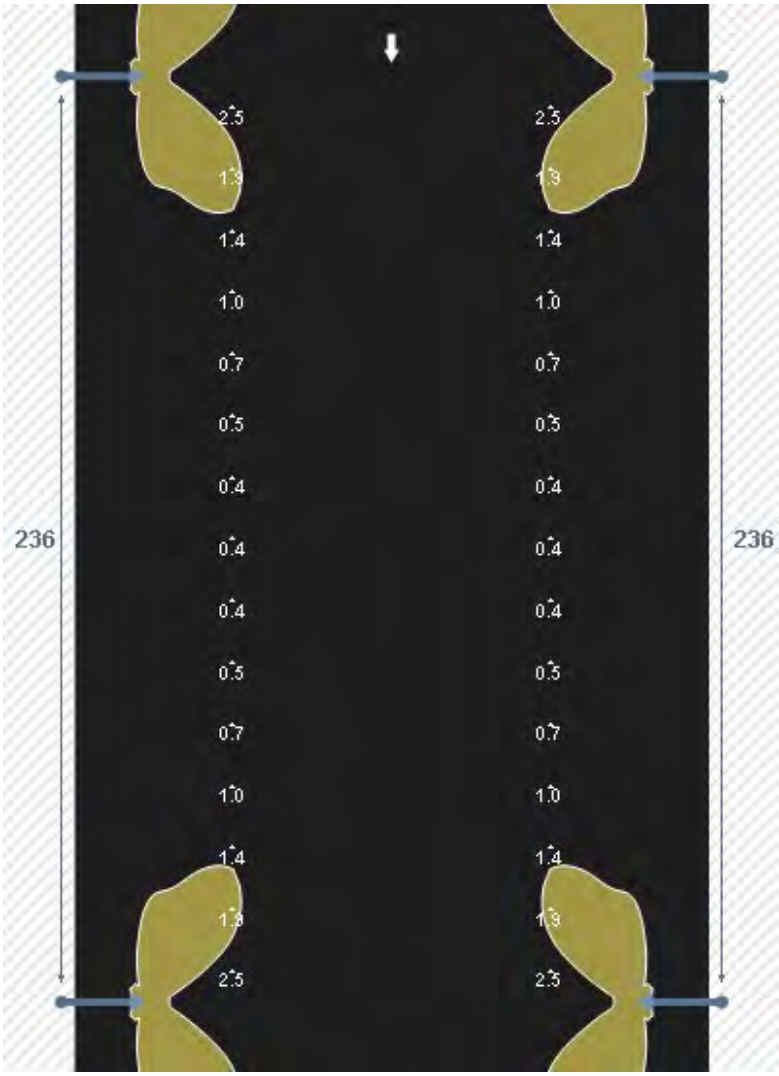

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

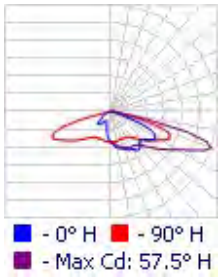
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	117.13 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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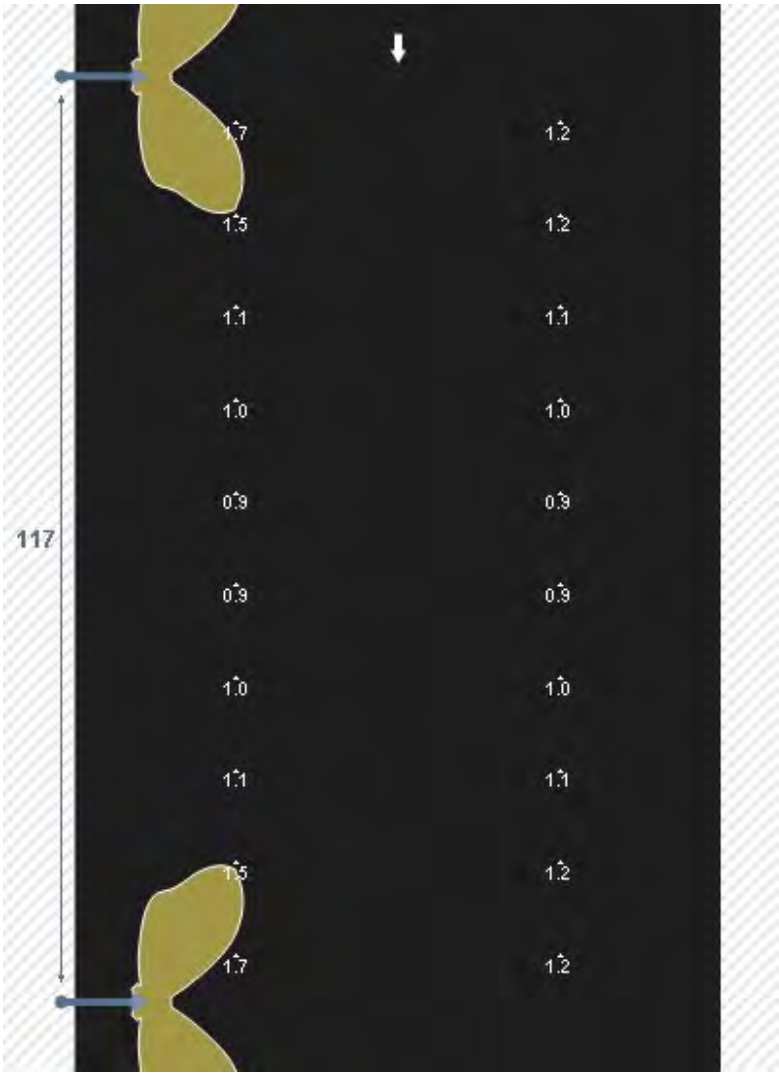

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	1.9	--	
Lv Ratio:	0.1	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

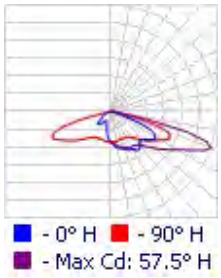
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

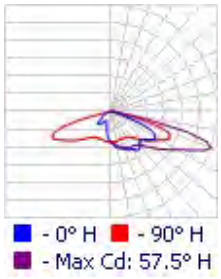
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	235.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	235.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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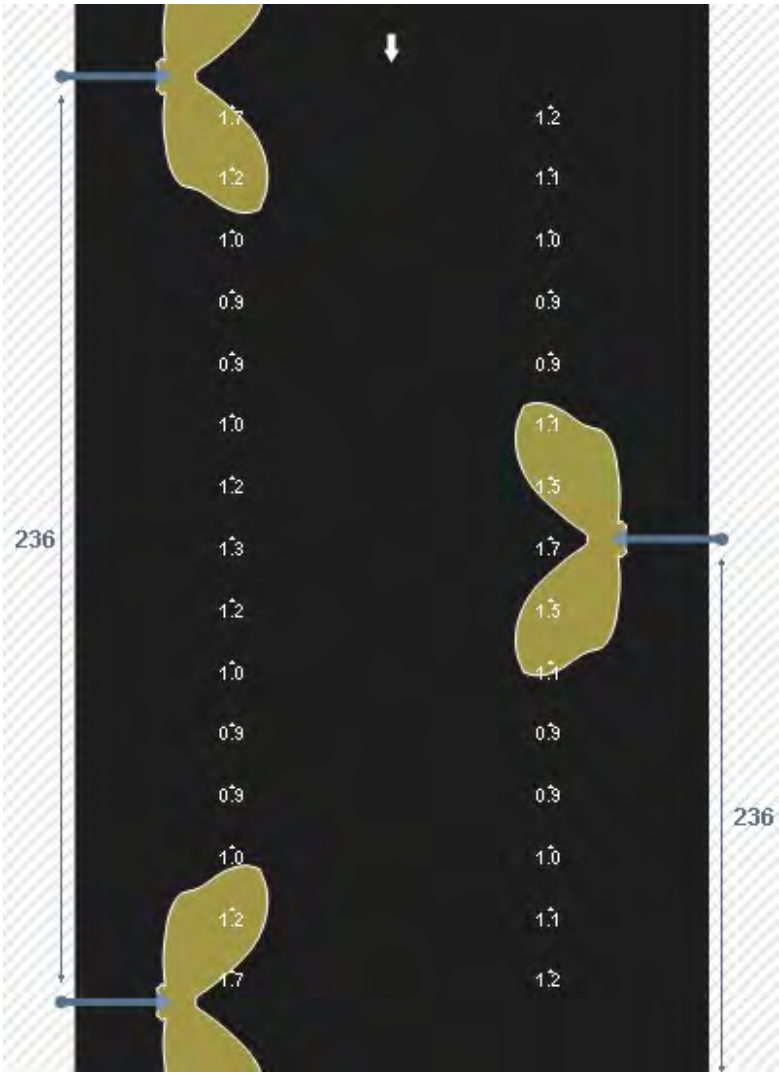

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.9	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	114 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	114 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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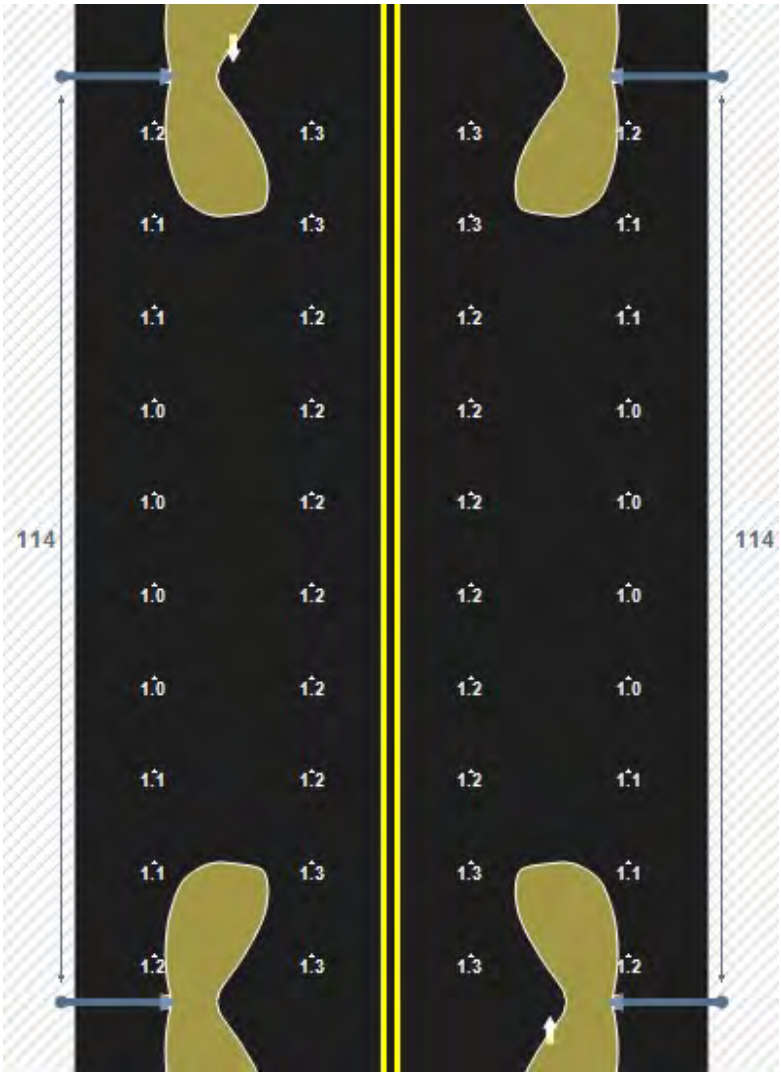
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.1	1.1	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

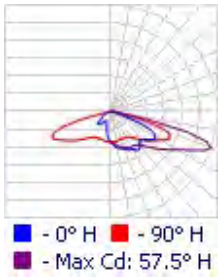
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	95 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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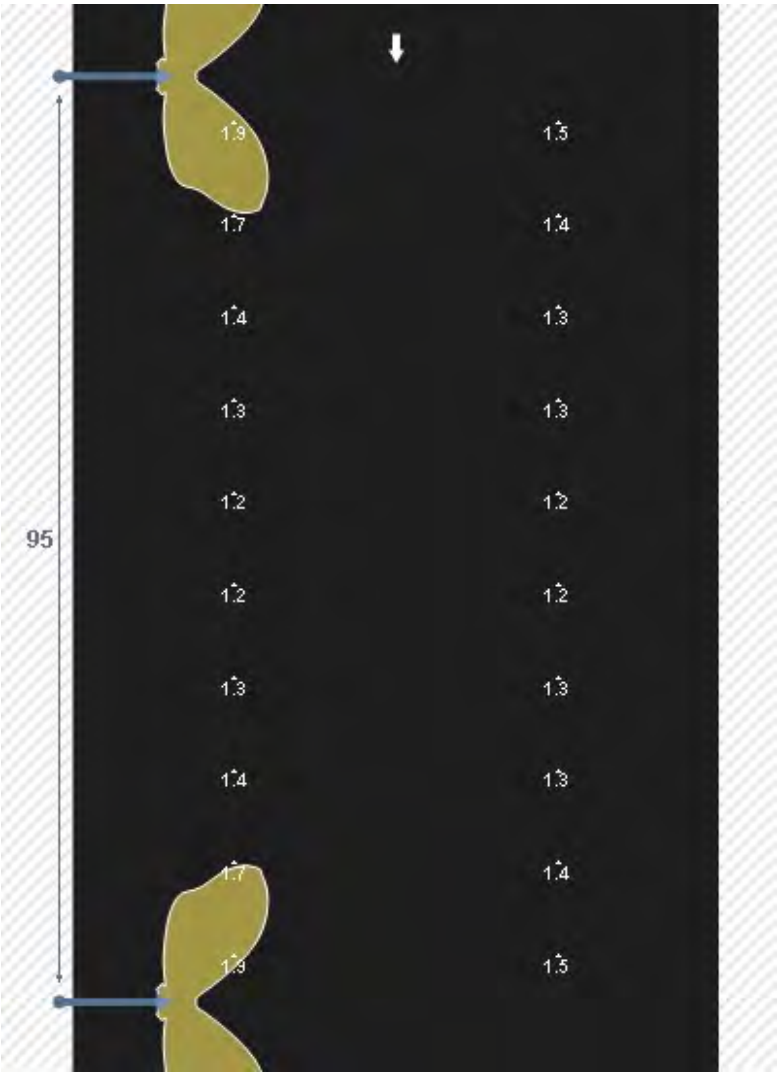

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.9	--	fc
Min	1.2	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

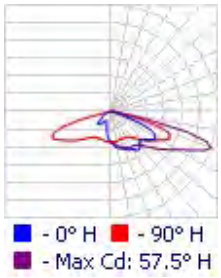
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

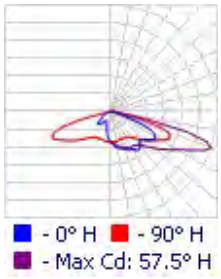
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	190 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	190 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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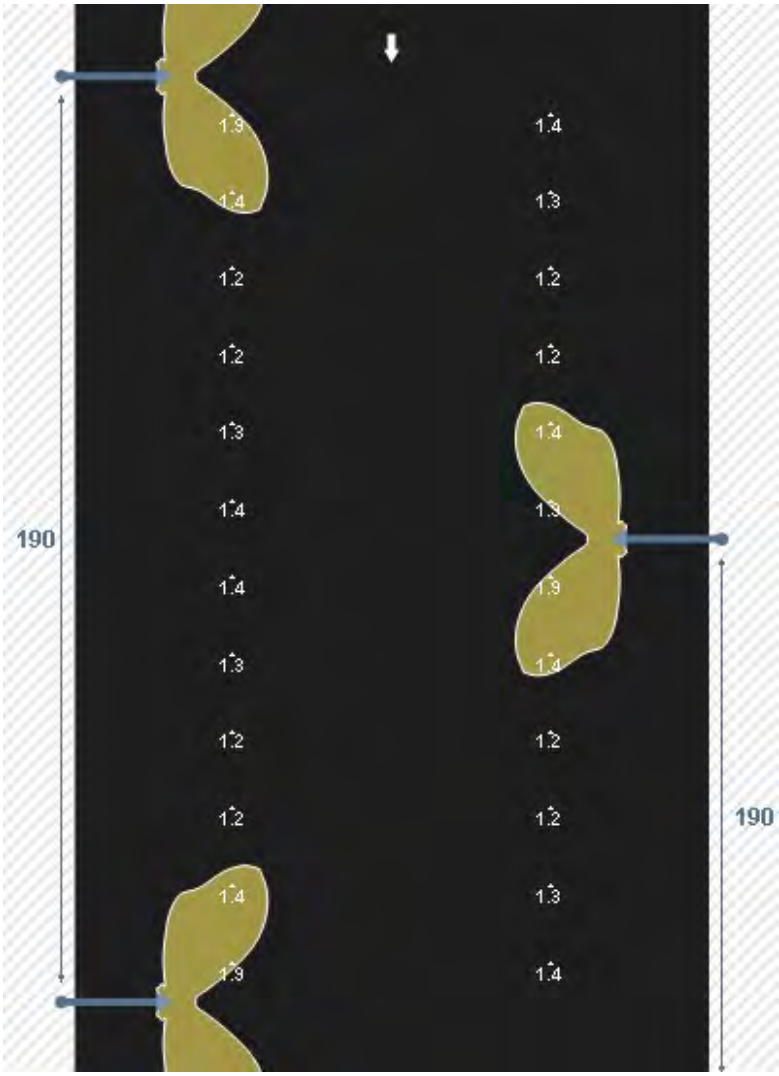

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	1	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1	--	

Illuminance	Left	Right	
Average:	1.4	--	fc
Max:	1.8	--	fc
Min	1.2	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

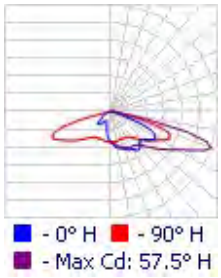
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

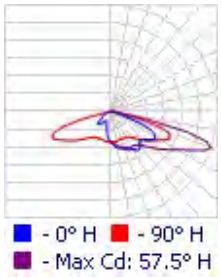
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	235.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	235.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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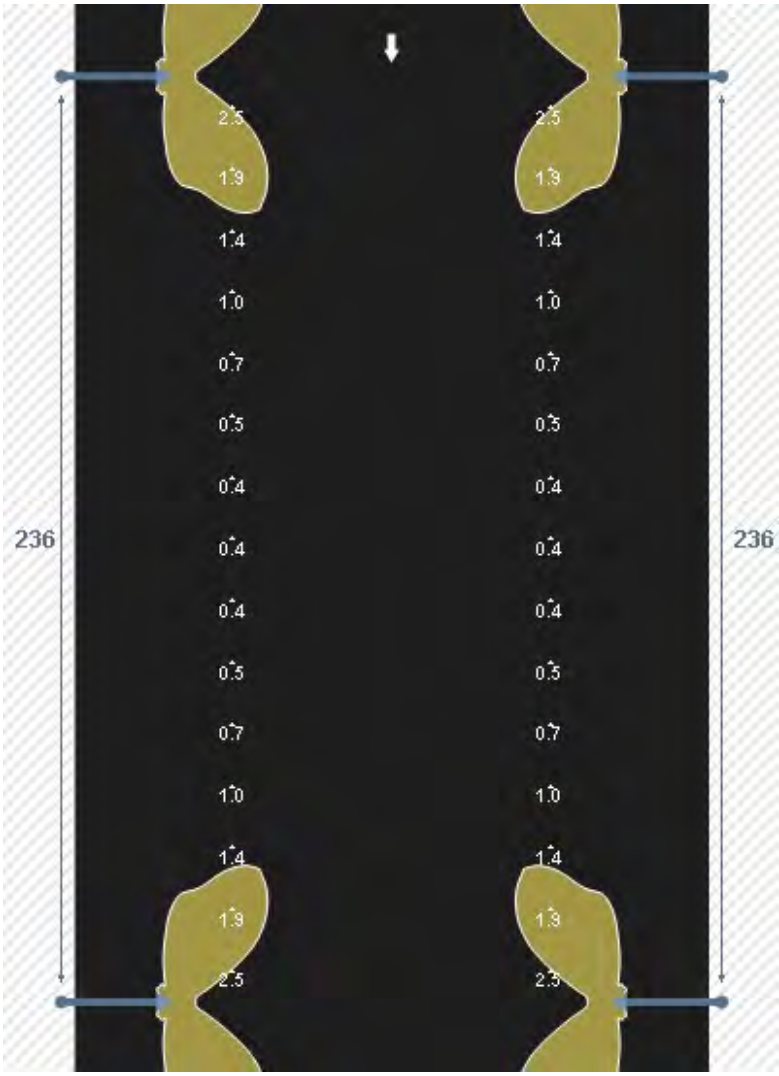

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	4.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	3	--	
Max/Min:	6.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

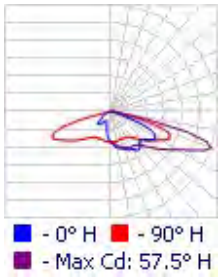
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	117.69 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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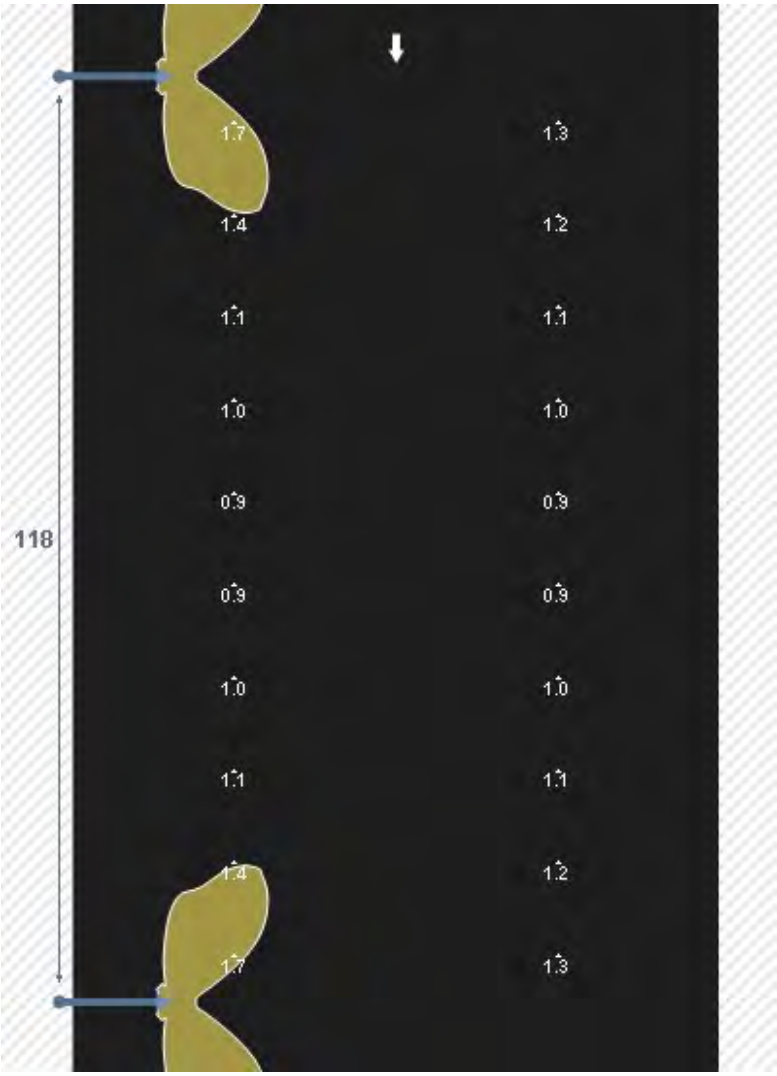

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.9	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

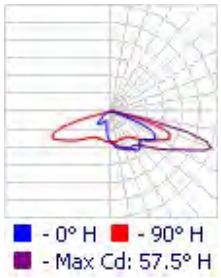
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

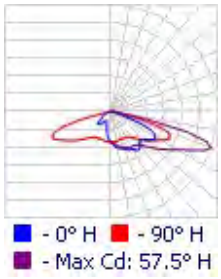
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.37 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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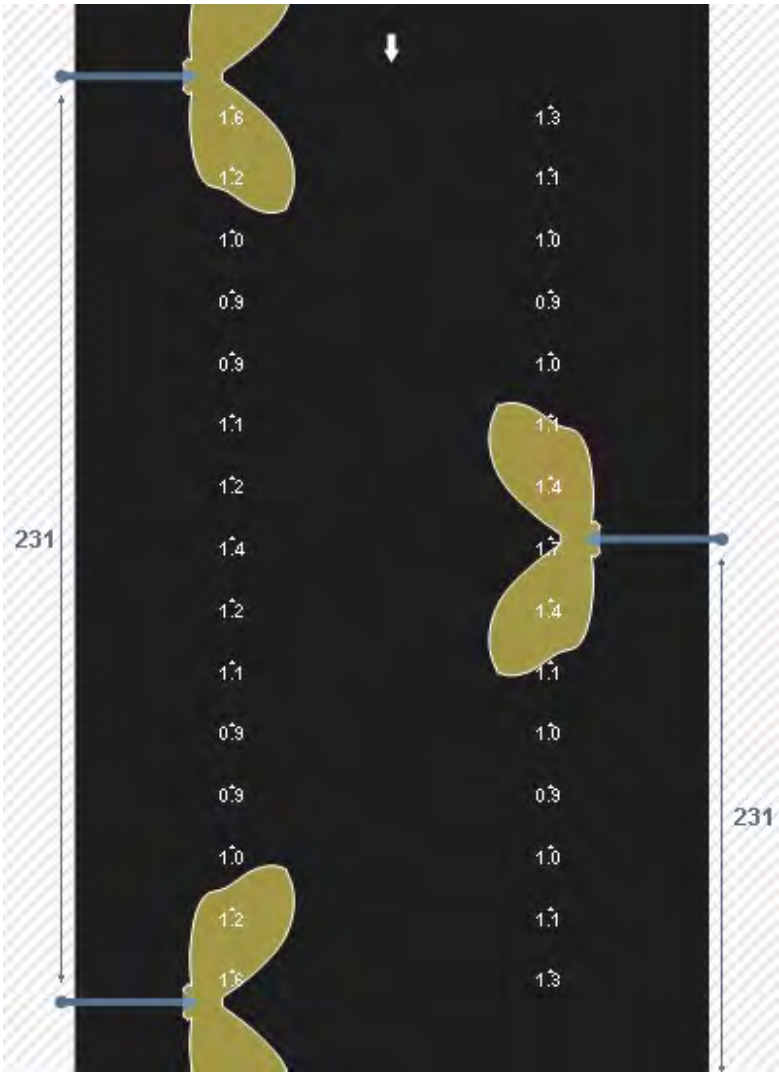

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.7	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	114.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	114.36 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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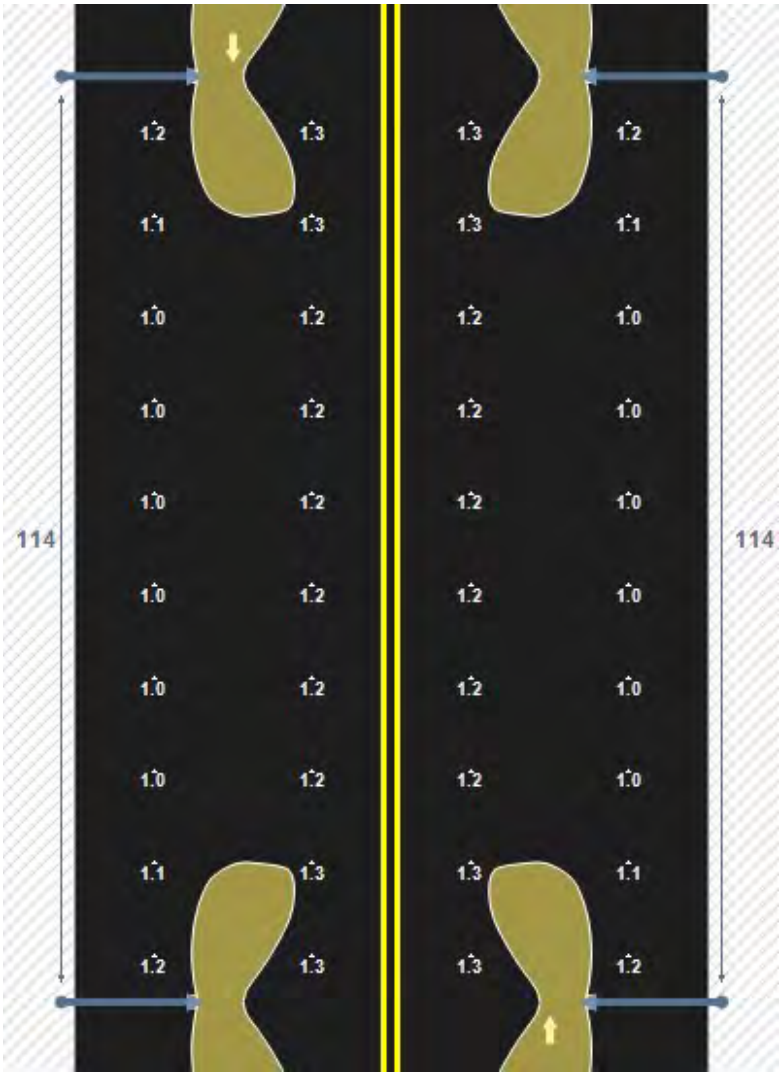
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	1.3	1.3	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

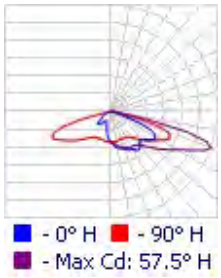
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	100 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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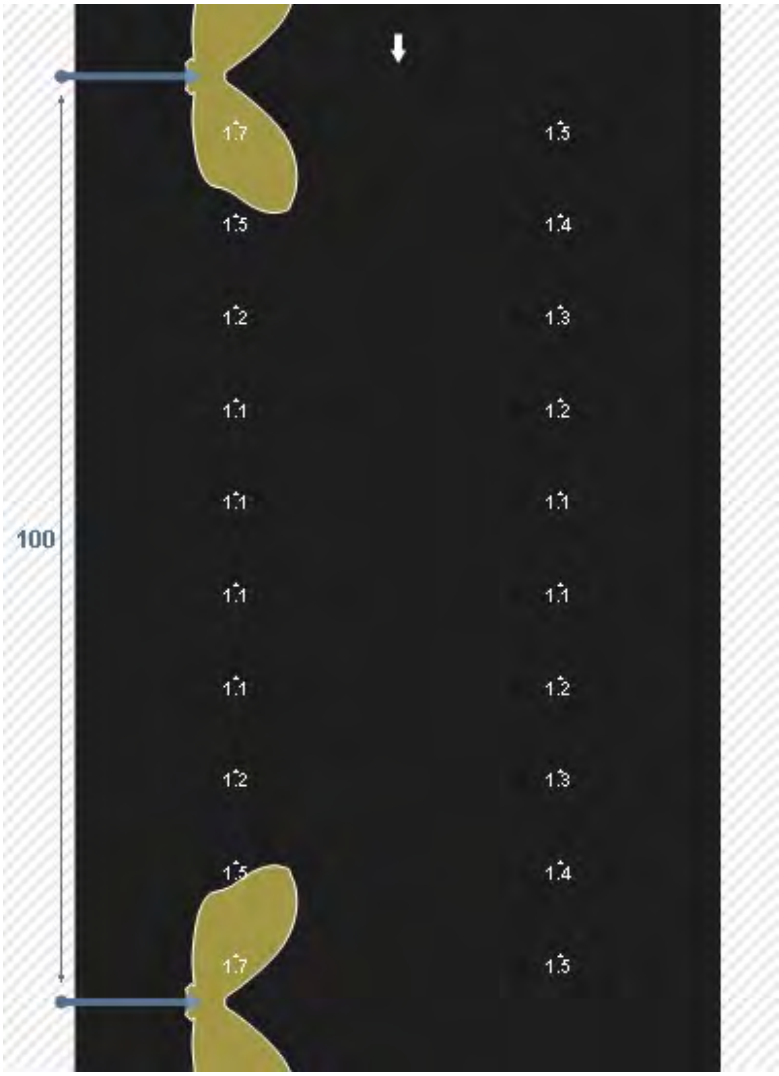

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

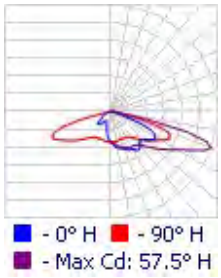
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

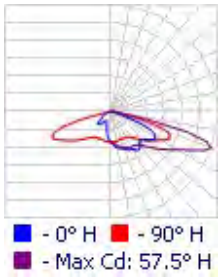
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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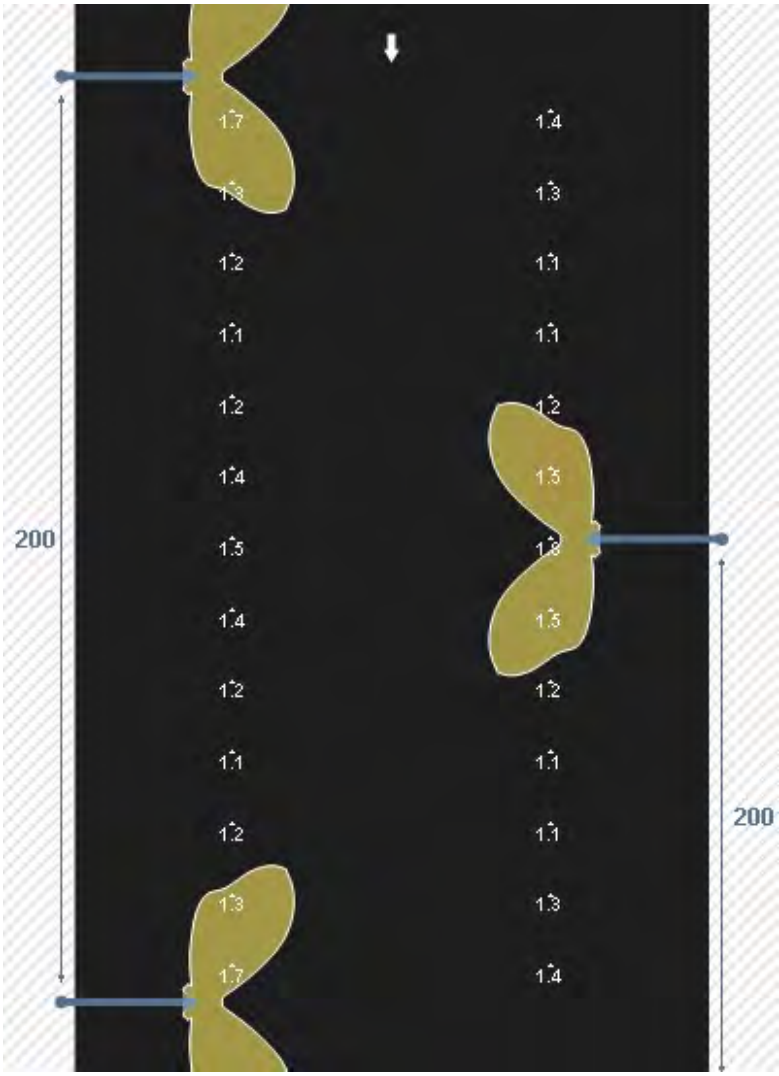

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.8	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

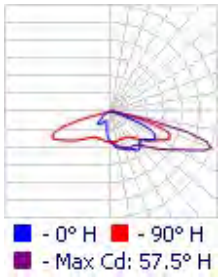
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

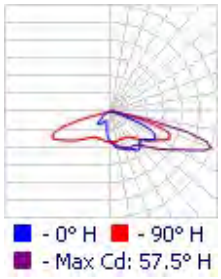
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	231.15 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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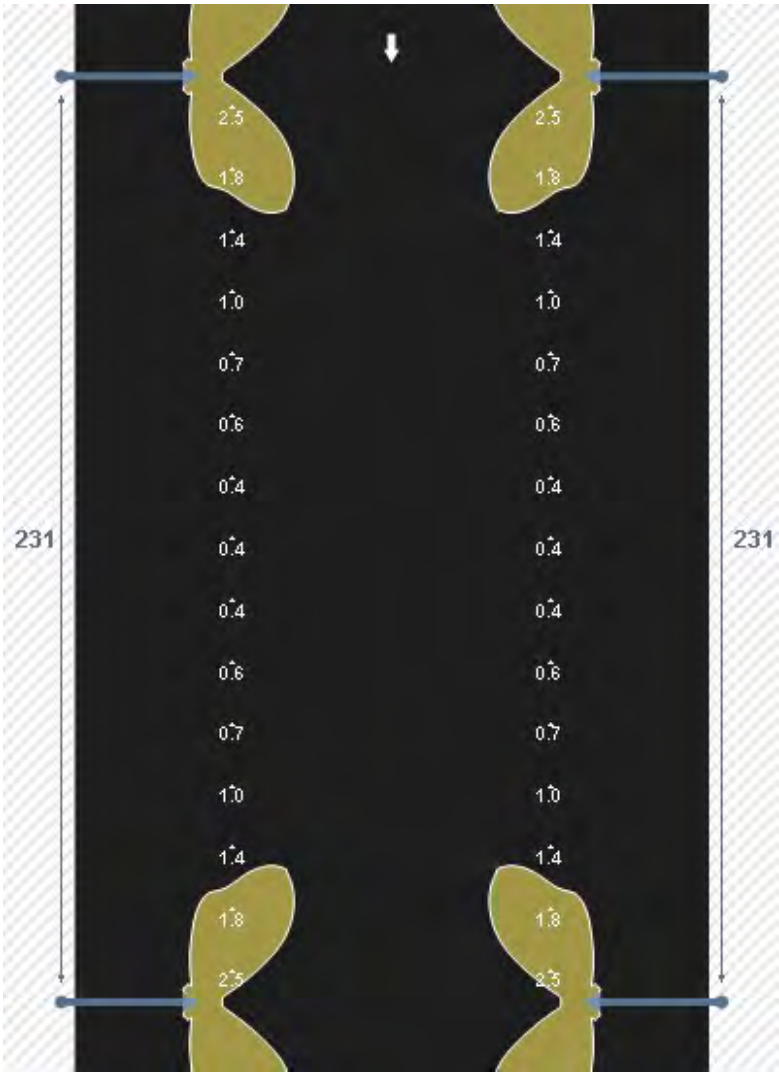

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	1.9	--	
Lv Ratio:	0.2	--	
STV:	4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.5	--	fc
Min	0.4	--	fc
Ave/Min:	2.9	--	
Max/Min:	6.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

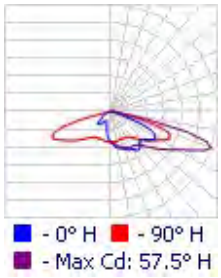
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	115.53 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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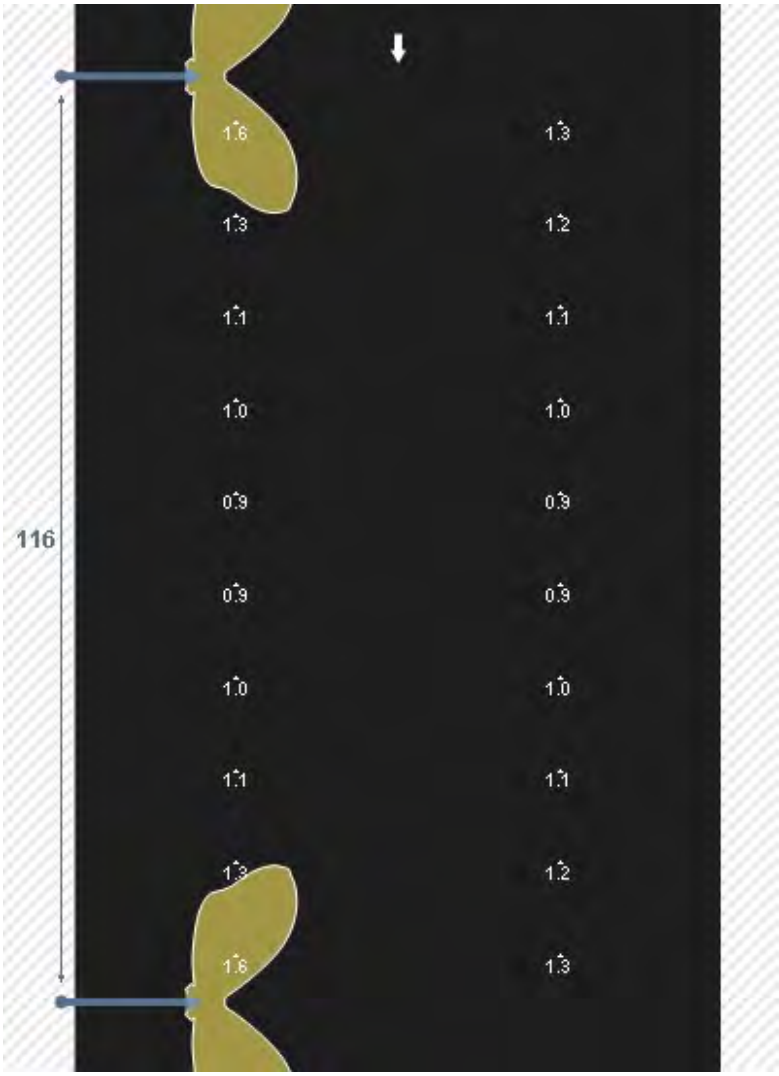
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.7	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

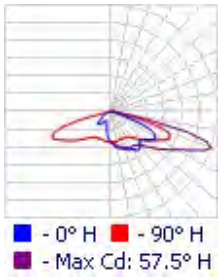
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

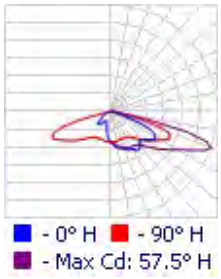
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	225.1 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	225.1 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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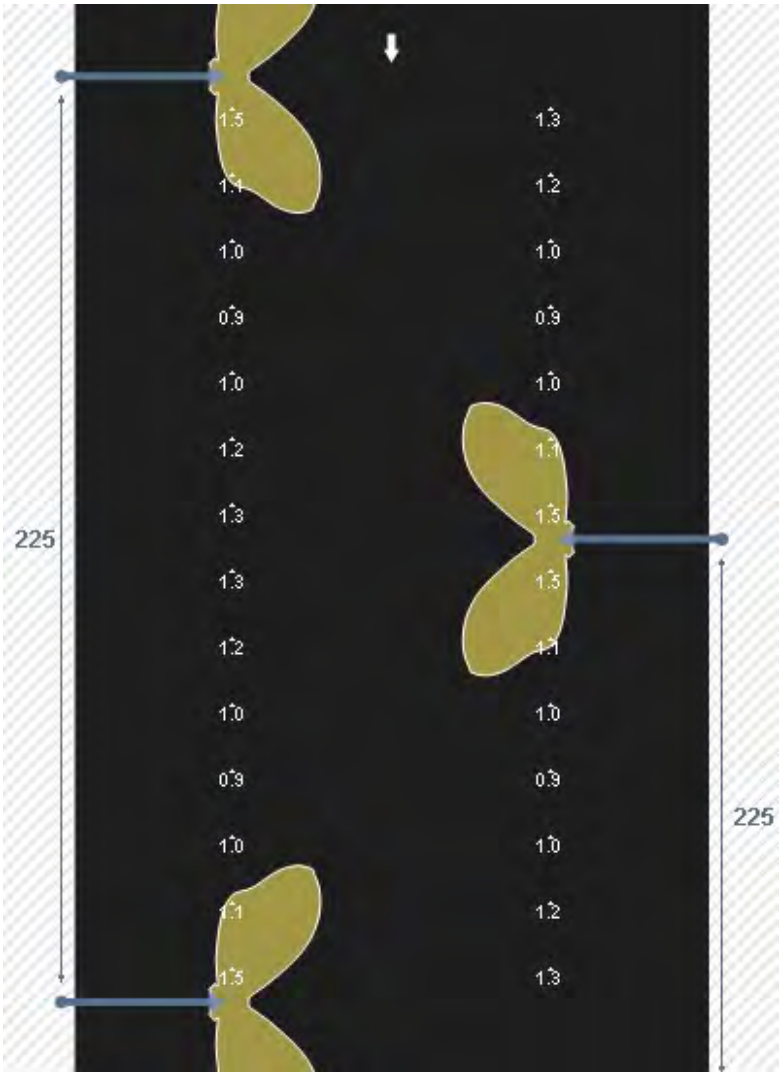

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.6	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (18 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	113.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	113.25 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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Visual - Roadway Tool

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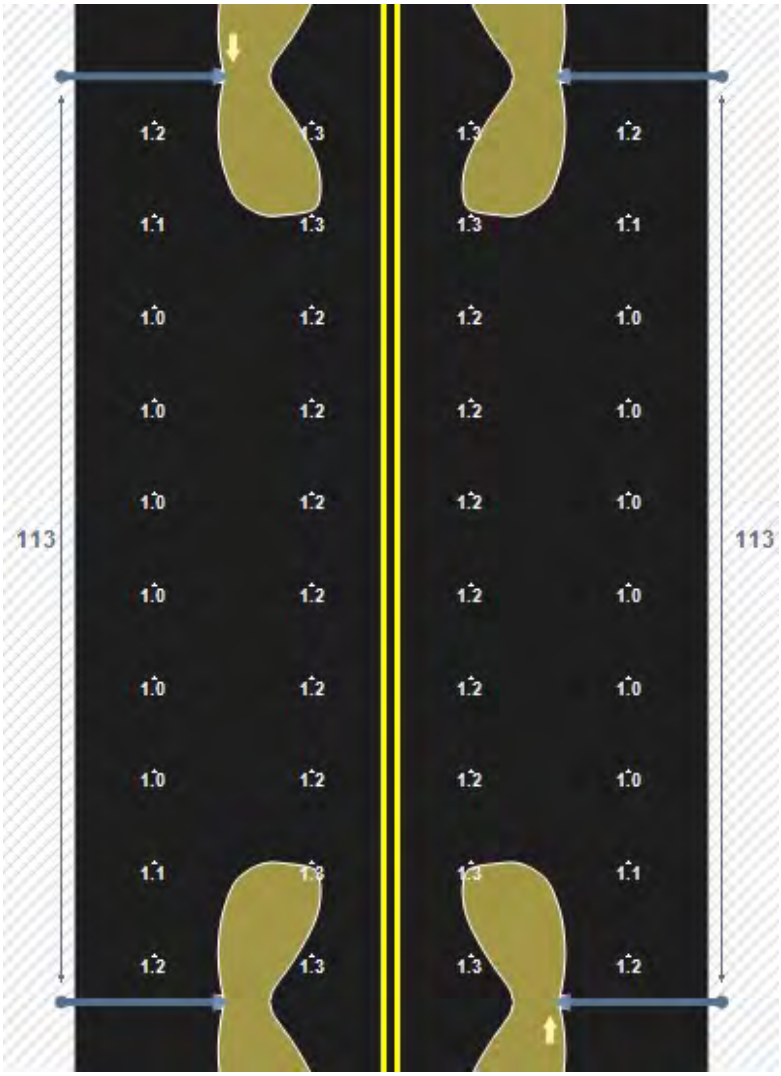

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.2	1.2	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	1	1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

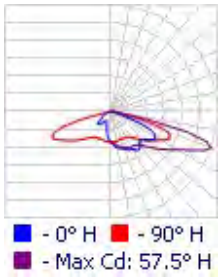
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

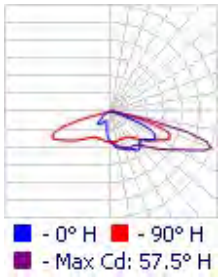
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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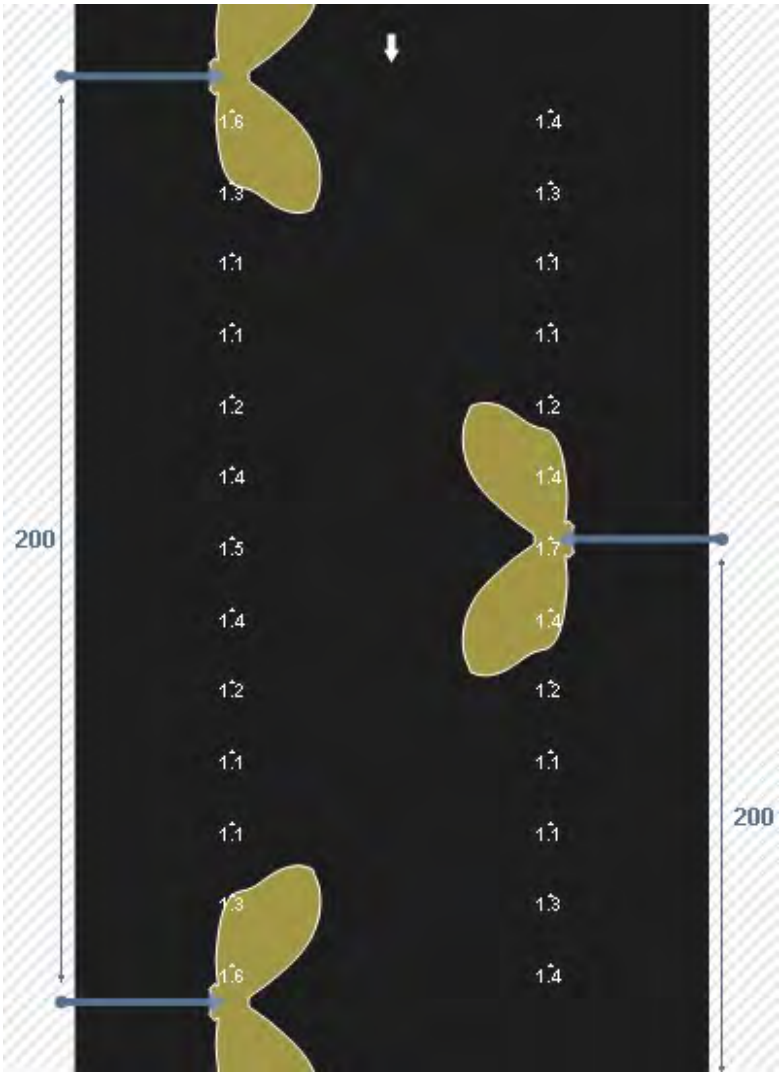

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.7	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

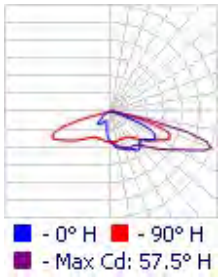
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

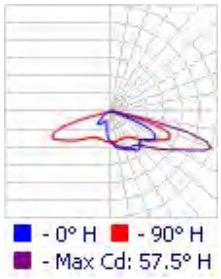
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	225.1 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	225.1 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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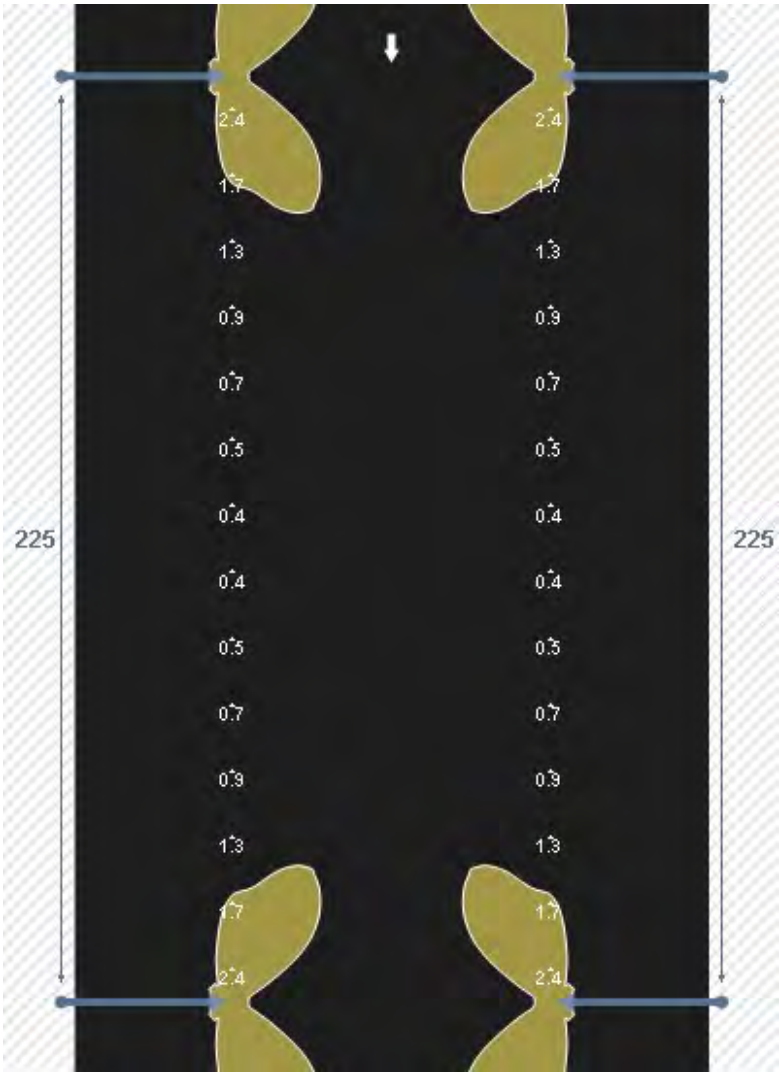

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.9	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.4	--	fc
Min	0.4	--	fc
Ave/Min:	2.6	--	
Max/Min:	5.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

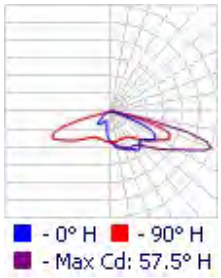
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (9 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	111.71 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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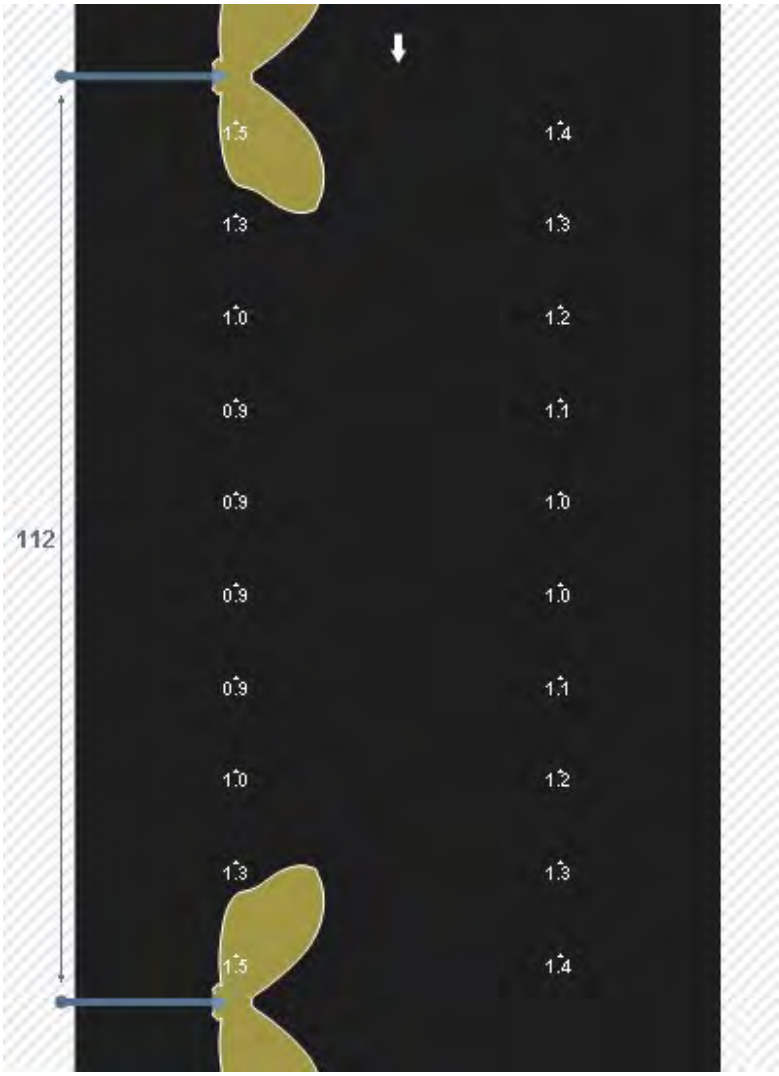

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.3	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

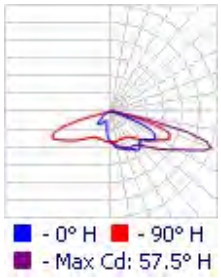
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	100 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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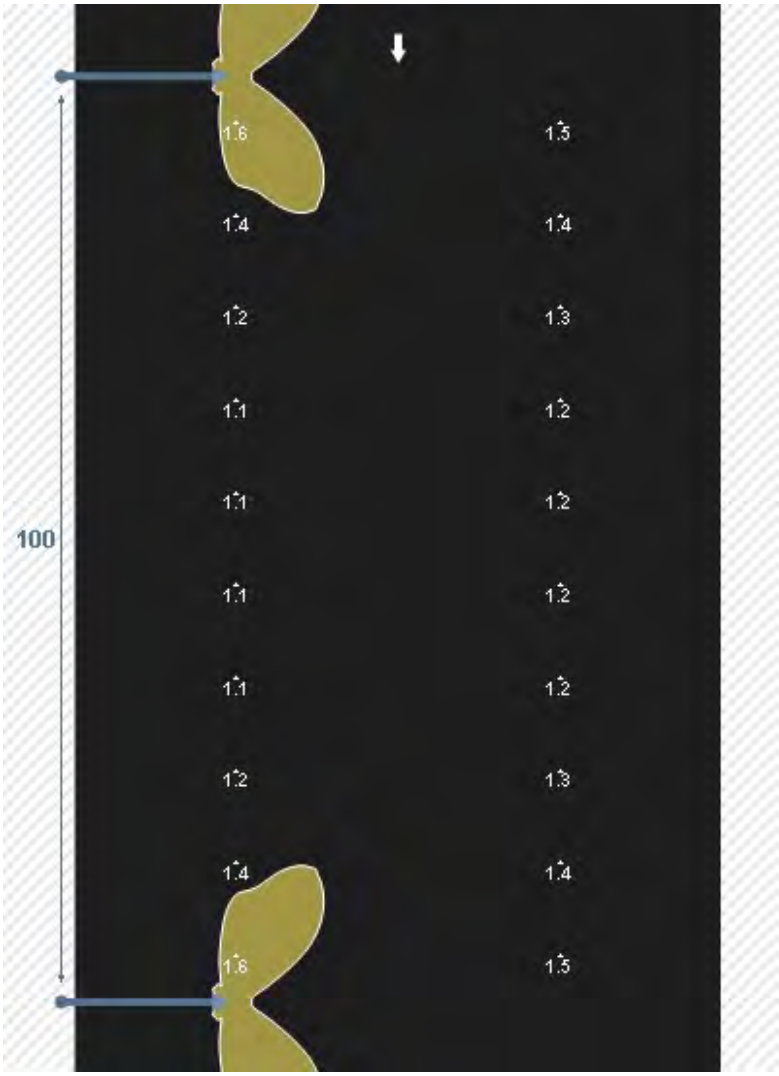

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.3	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.3	--	
Max/Min:	1.6	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.6	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

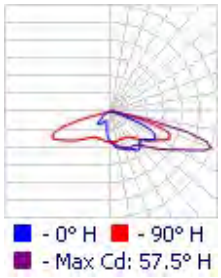
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

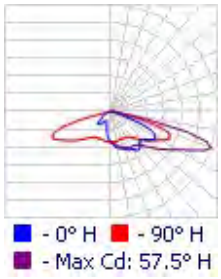
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	221.7 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	221.7 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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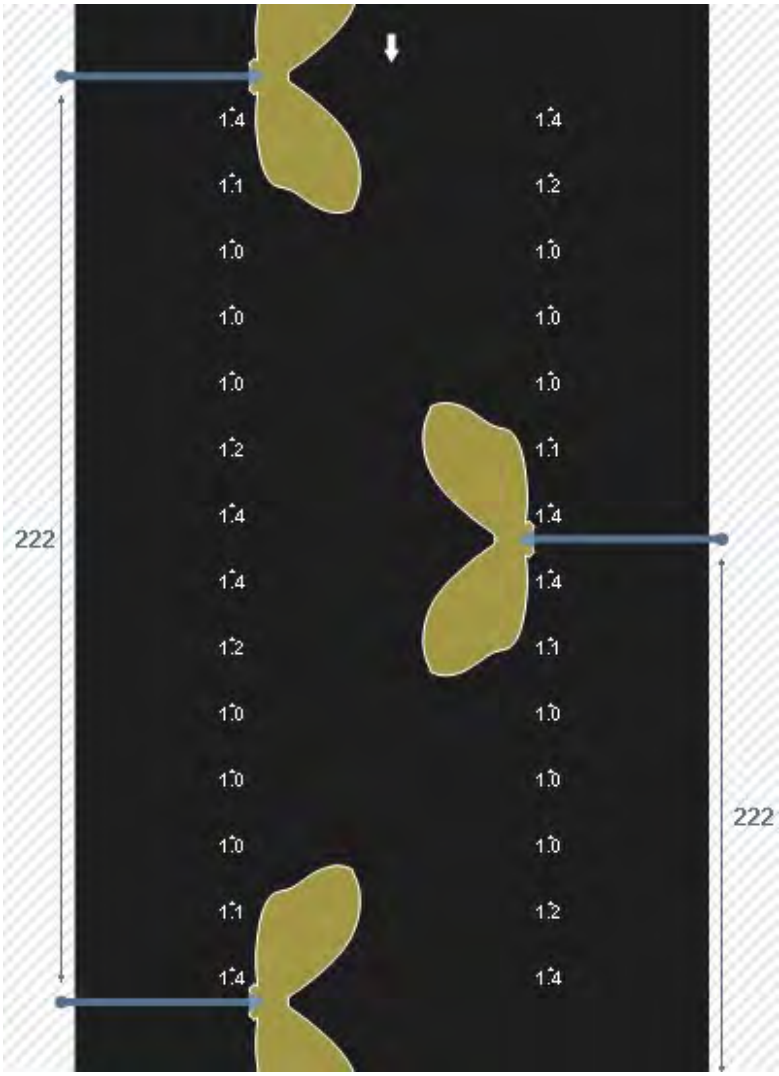

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.4	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
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Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (20 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	109.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

Right Side - COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON): ARCH-N-PA1-60-730-U-T3

Cycle Spacing:	109.33 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	434
Staggered:	False	Wattage:	62
Light Loss Factor:	0.88	Lamp Count:	16

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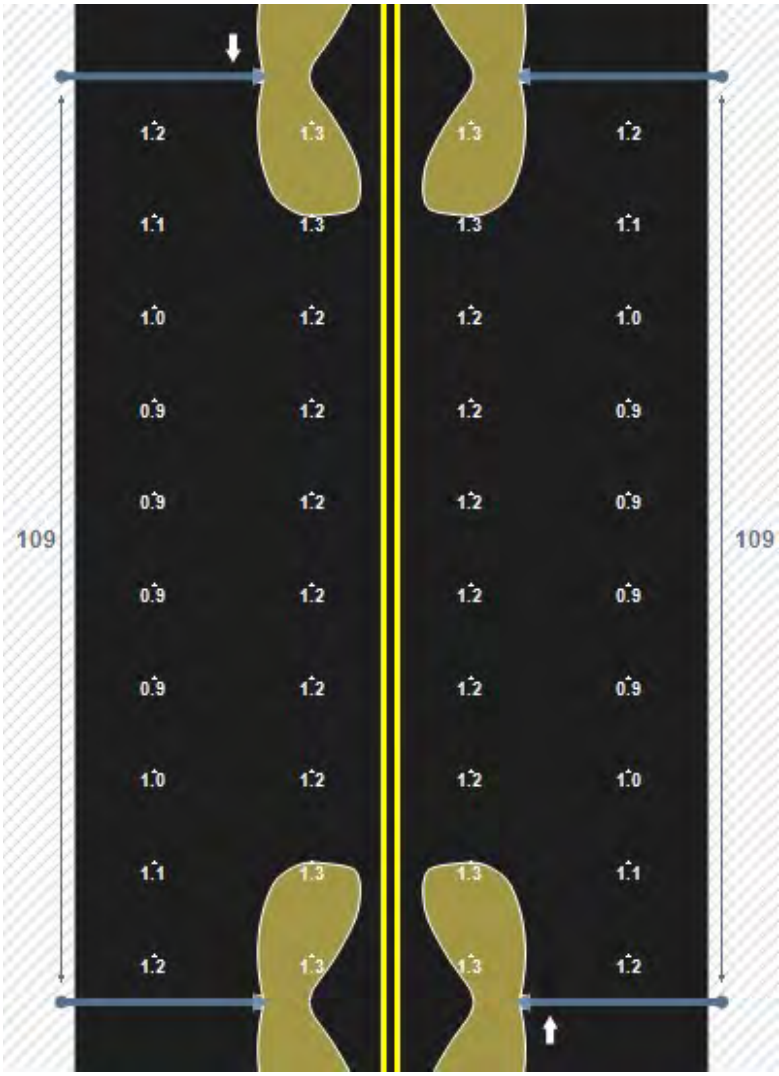
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	1	cd/m²
Max:	1.3	1.3	cd/m²
Min	0.8	0.8	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	1.2	1.2	

Illuminance	Left	Right	
Average:	1.2	1.2	fc
Max:	1.3	1.3	fc
Min	0.9	0.9	fc
Ave/Min:	1.3	1.3	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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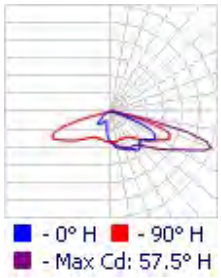
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	100 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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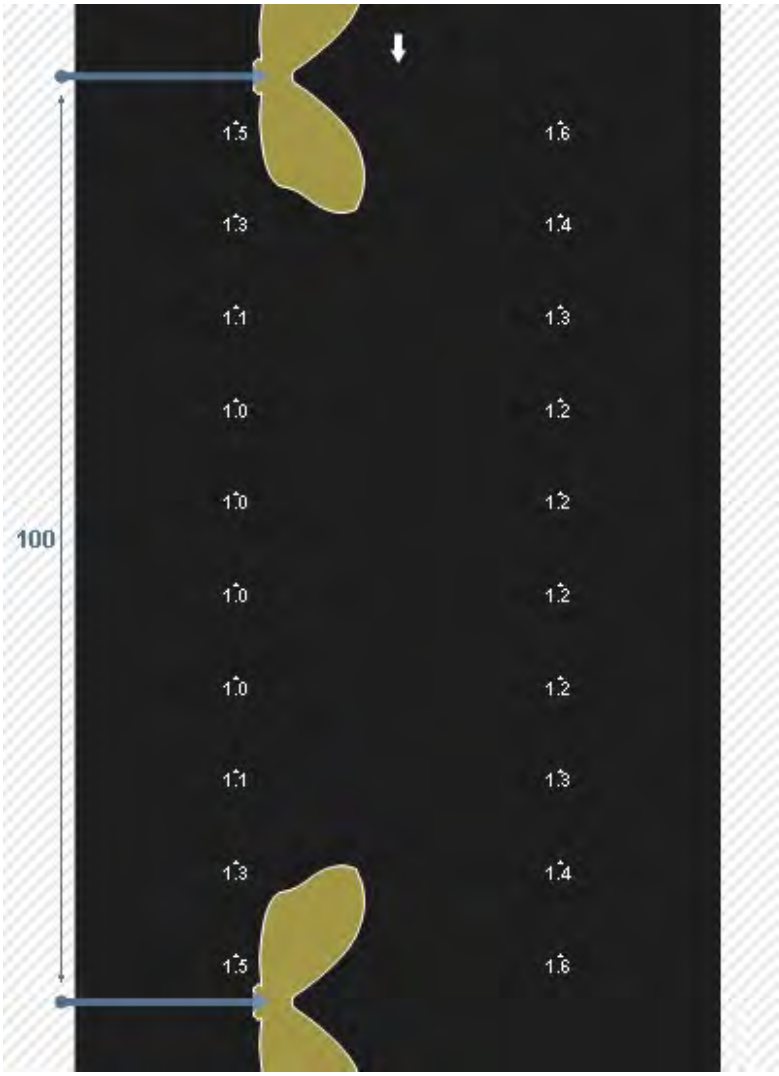

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.6	--	fc
Min	1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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Project Description

User Name
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Your Email

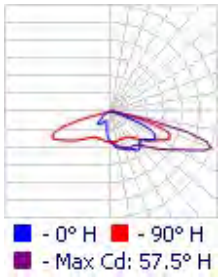
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (11 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

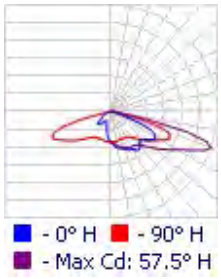
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	200 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	True	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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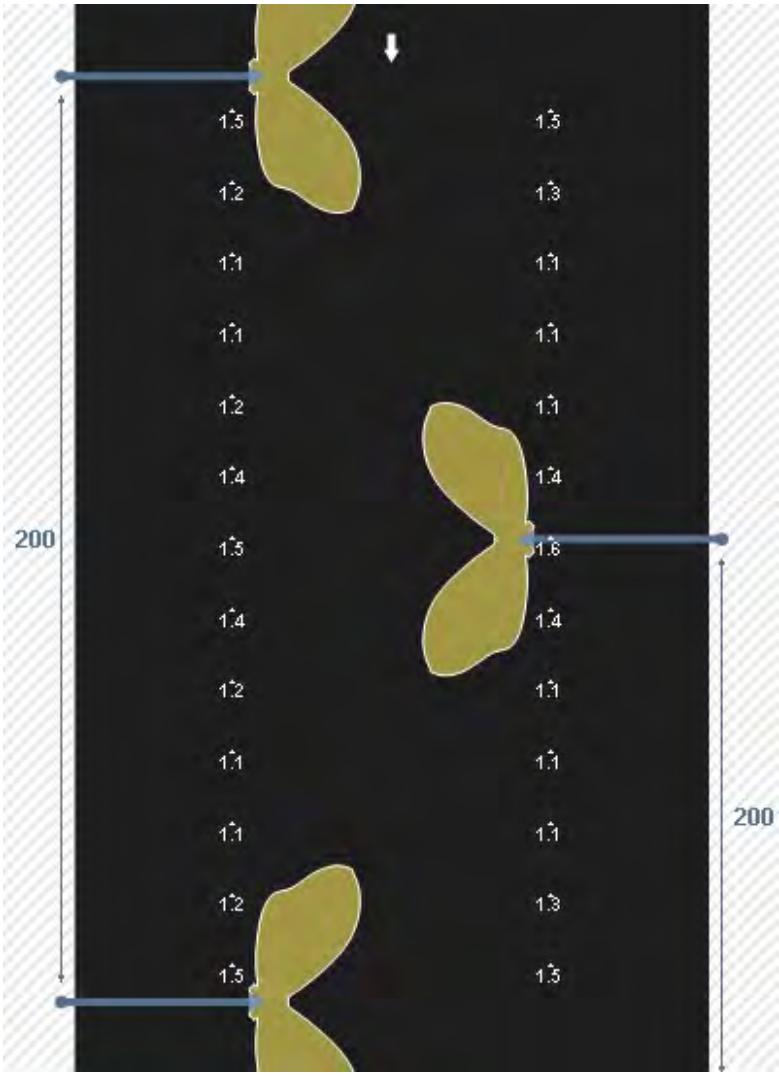

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.9	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.5	--	
Lv Ratio:	0.1	--	
STV:	1.1	--	

Illuminance	Left	Right	
Average:	1.3	--	fc
Max:	1.6	--	fc
Min	1.1	--	fc
Ave/Min:	1.2	--	
Max/Min:	1.5	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Tuesday, May 18, 2021

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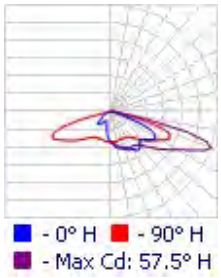
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

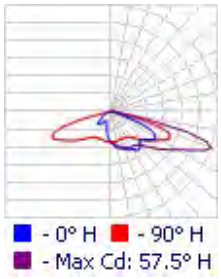
Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	221.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	221.82 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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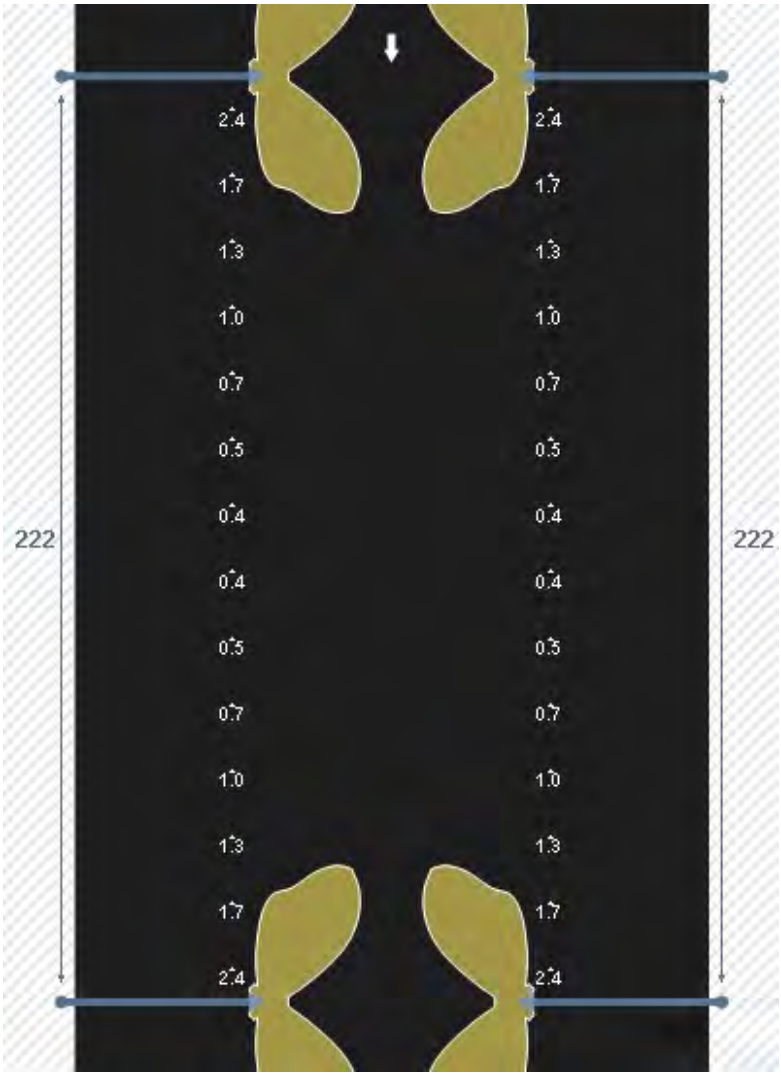

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.2	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	1.8	--	
Lv Ratio:	0.2	--	
STV:	3.9	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	2.4	--	fc
Min	0.4	--	fc
Ave/Min:	2.6	--	
Max/Min:	5.4	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

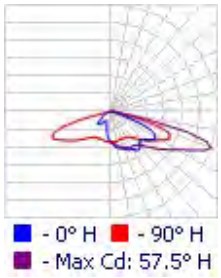
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

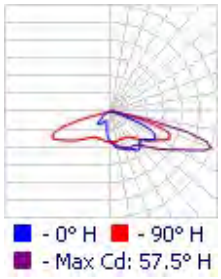
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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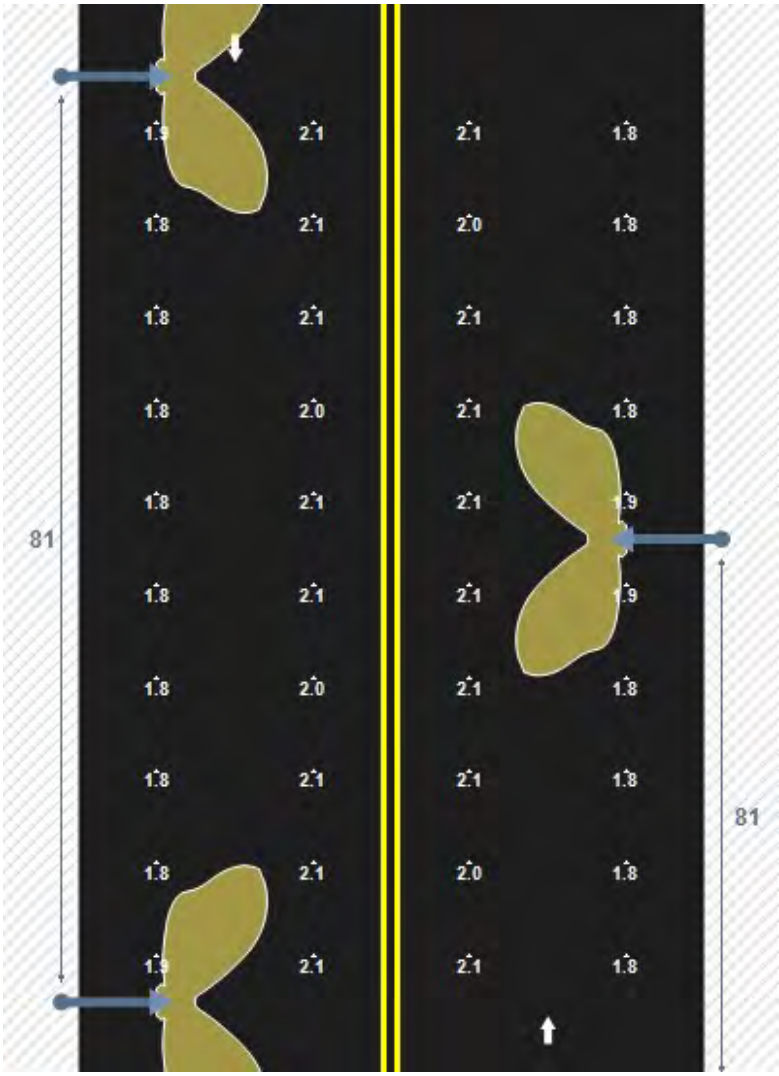

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.5	1.5	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.3	0.3	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.1	2.1	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Your Email

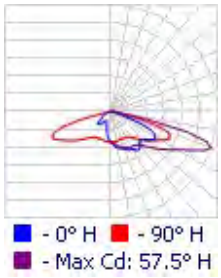
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

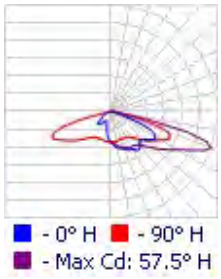
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.99 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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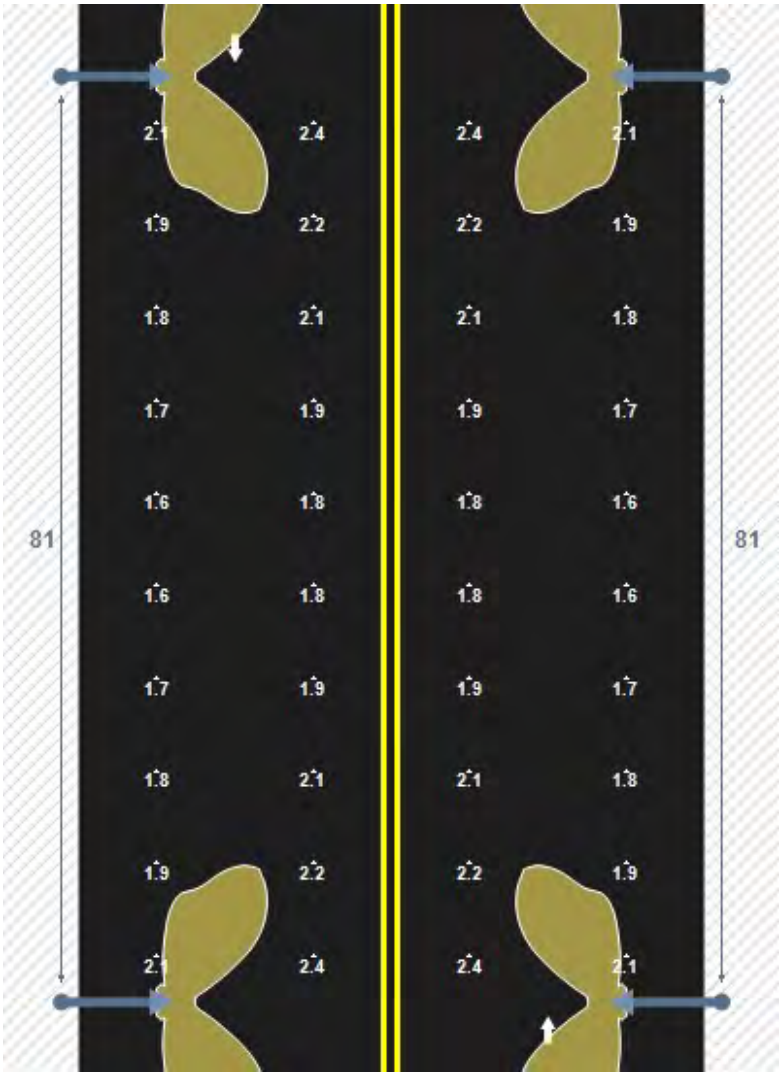

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

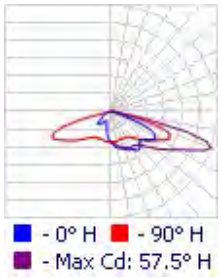
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

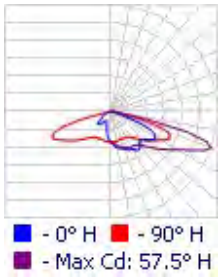
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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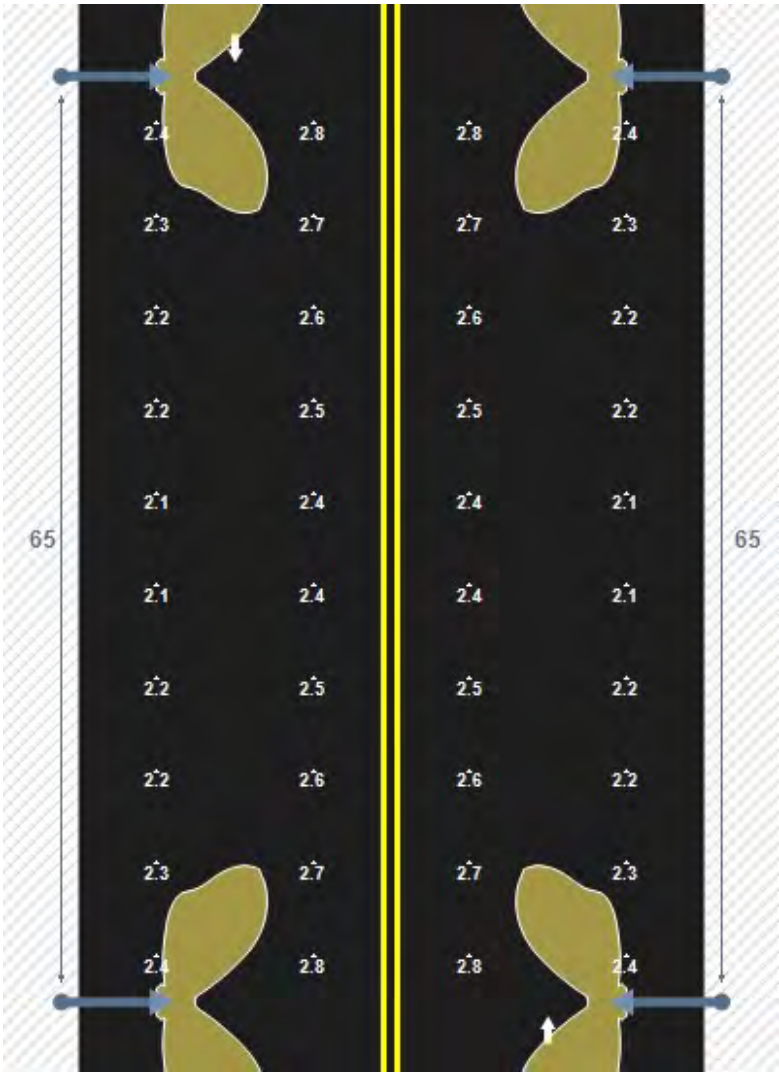

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.2	2.2	cd/m²
Min	1.8	1.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2.4	2.4	fc
Max:	2.8	2.8	fc
Min	2.1	2.1	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

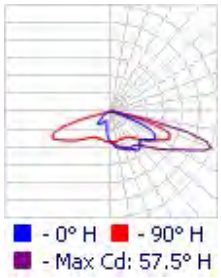
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (31 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

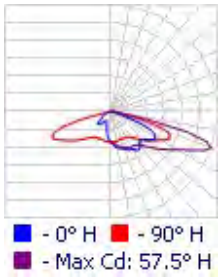
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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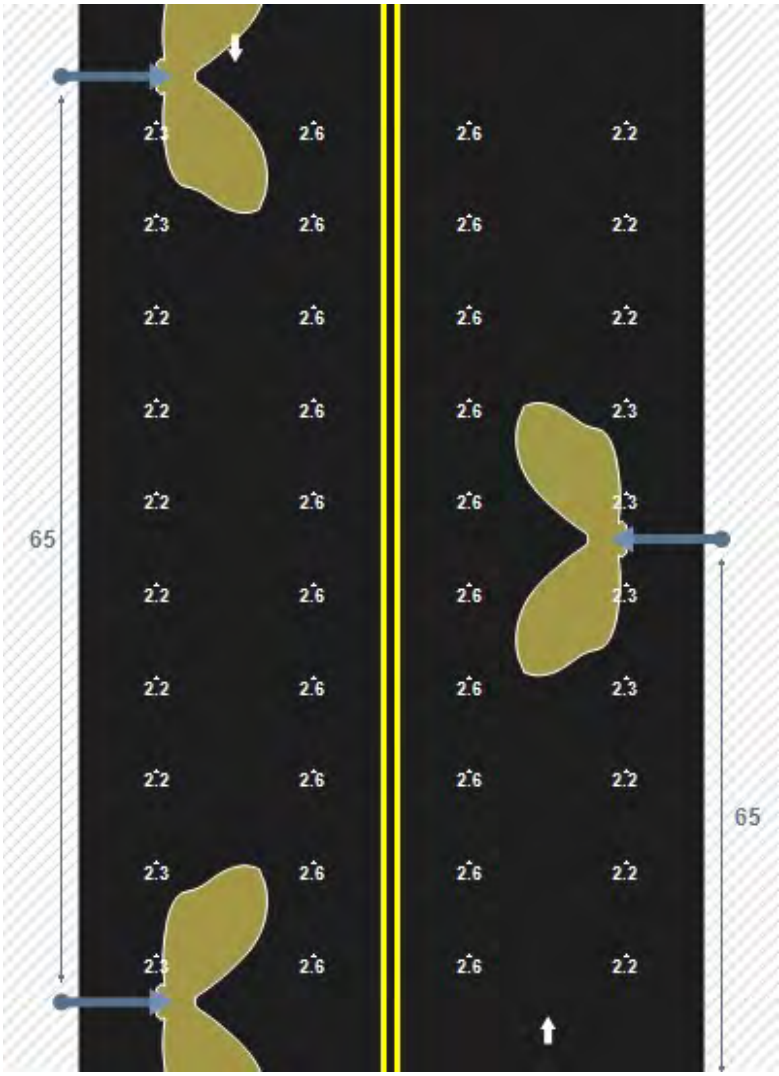

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.2	2.2	cd/m²
Min	1.8	1.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.3	0.3	

Illuminance	Left	Right	
Average:	2.4	2.4	fc
Max:	2.6	2.6	fc
Min	2.2	2.2	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

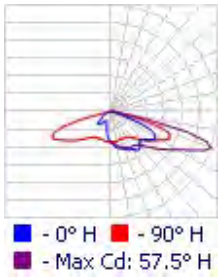
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (25 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

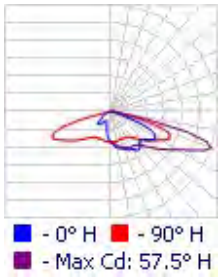
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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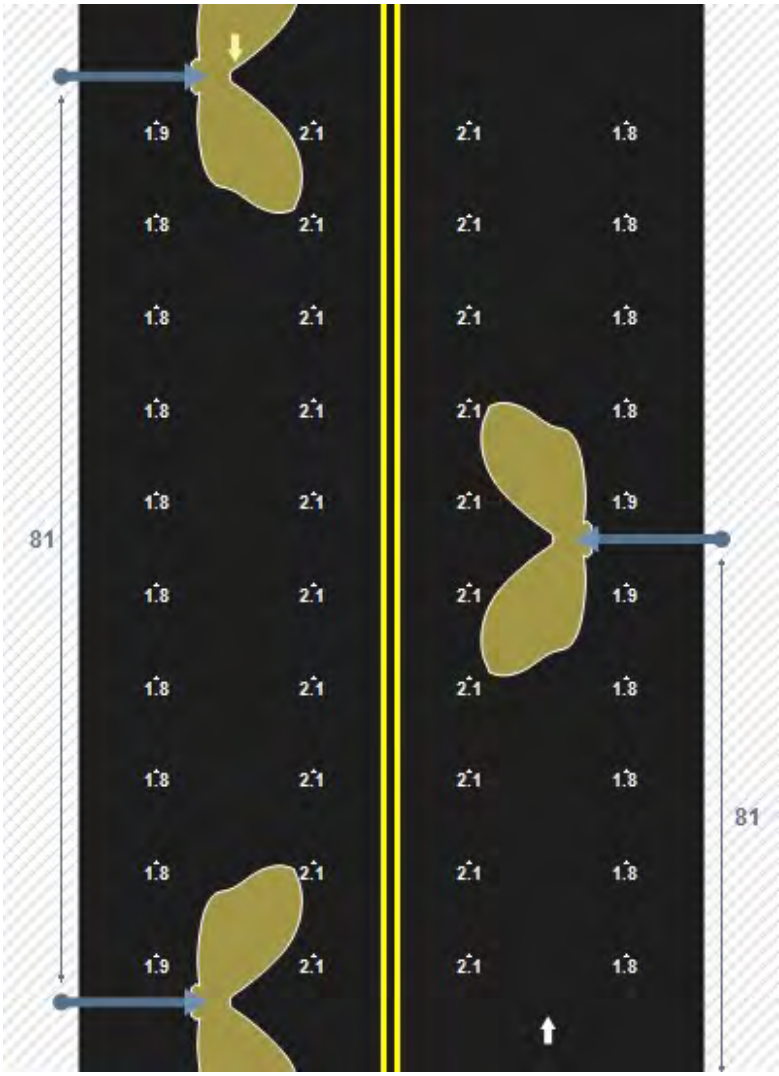

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.5	1.5	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.3	0.3	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

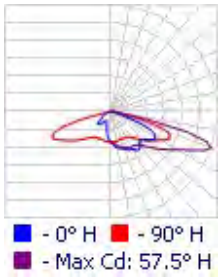
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

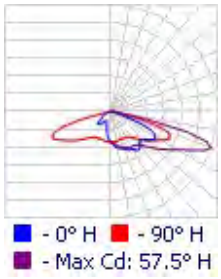
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	80.78 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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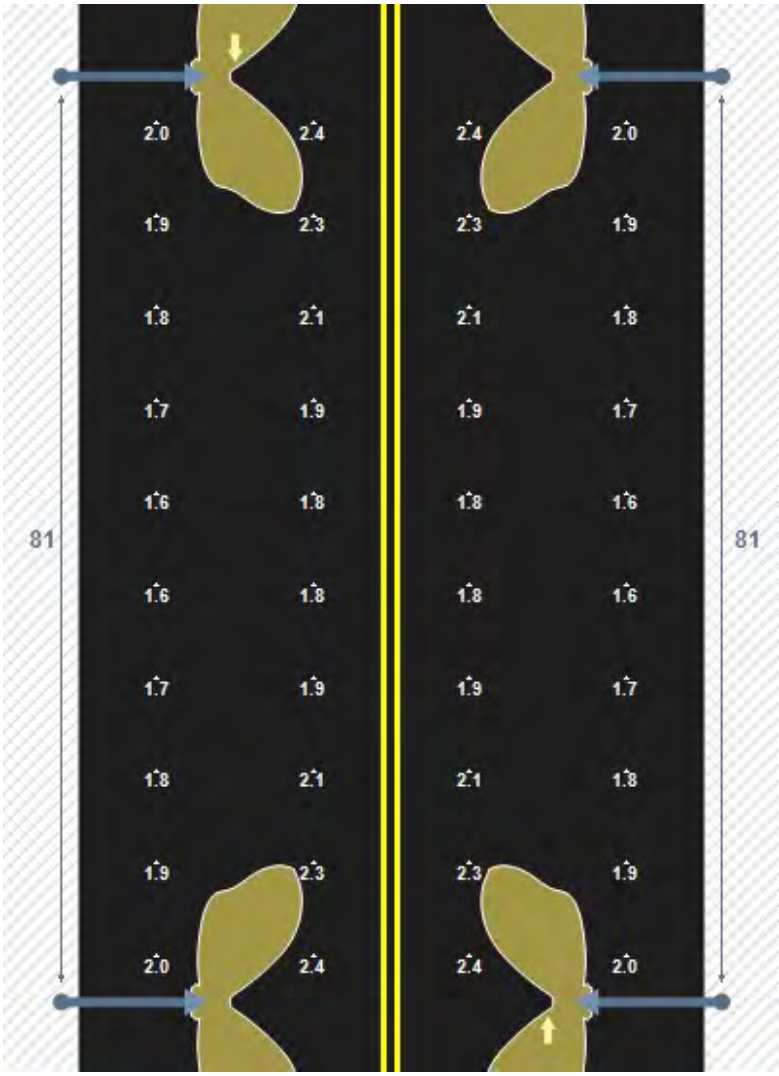

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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Project Description

User Name
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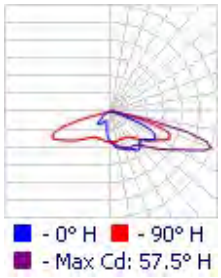
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (32 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

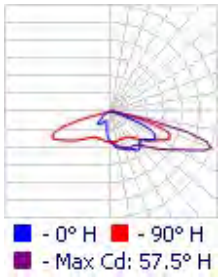
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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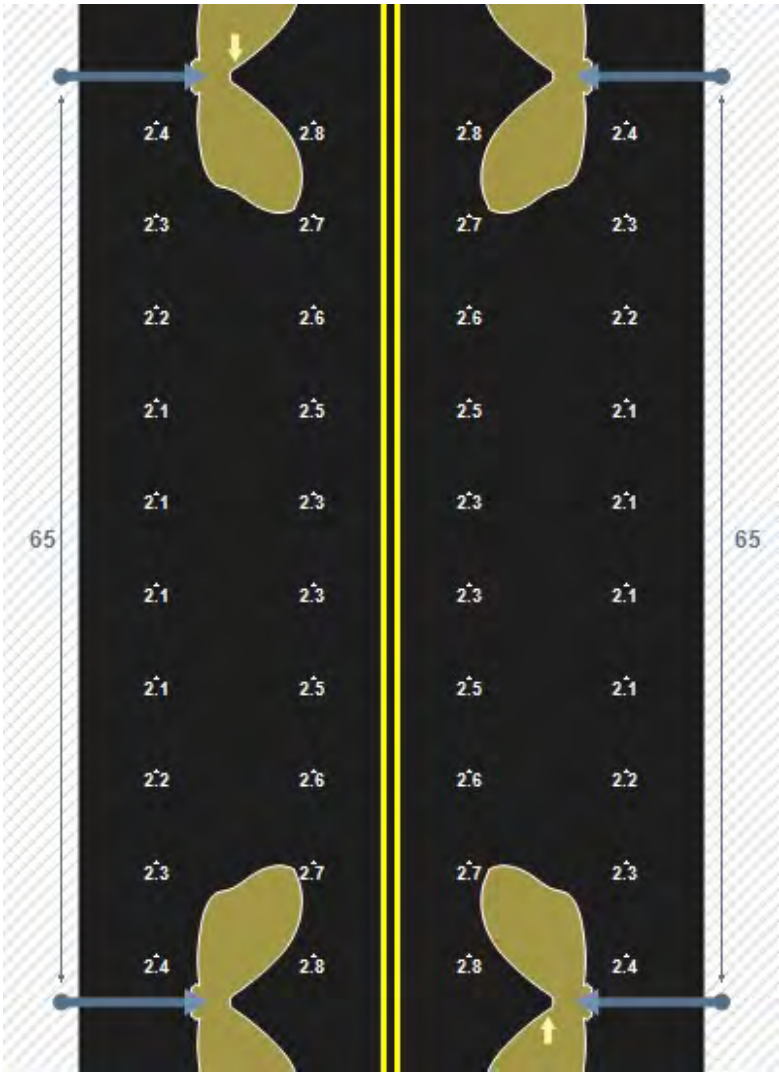

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.3	2.3	cd/m²
Min	1.8	1.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2.4	2.4	fc
Max:	2.8	2.8	fc
Min	2.1	2.1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

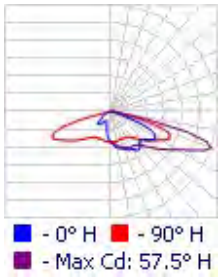
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (31 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

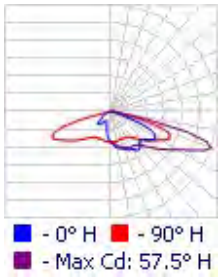
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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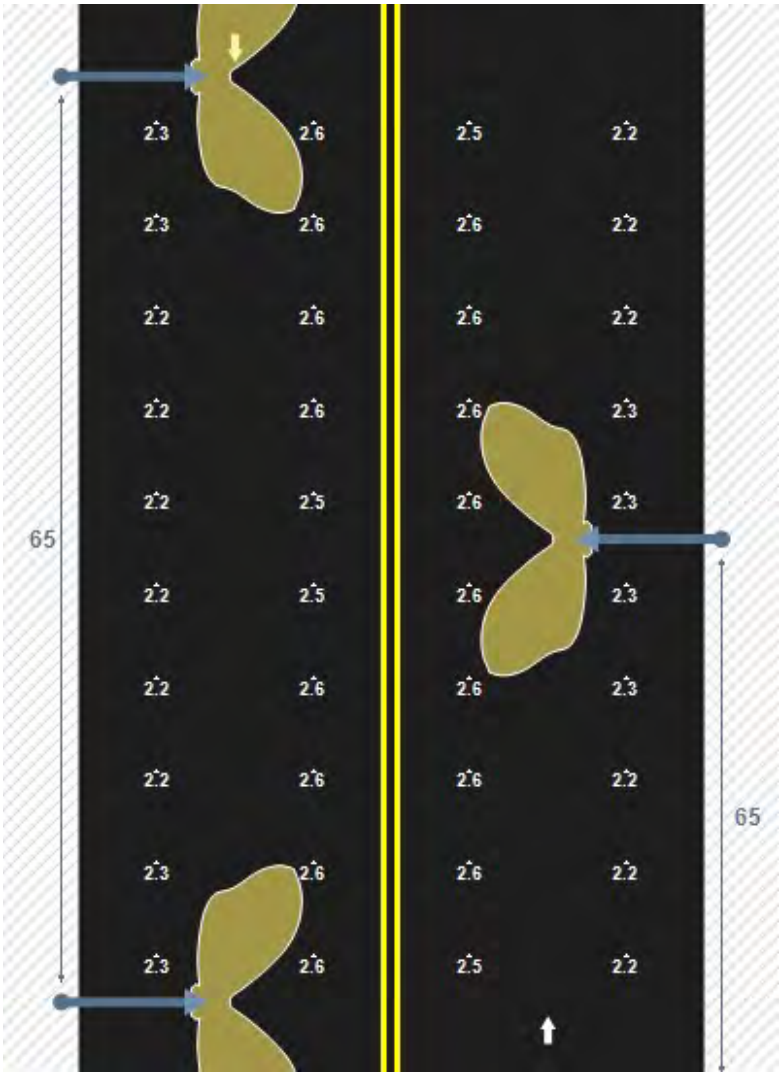

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.2	2.2	cd/m²
Min	1.8	1.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.3	0.3	

Illuminance	Left	Right	
Average:	2.4	2.4	fc
Max:	2.6	2.6	fc
Min	2.2	2.2	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

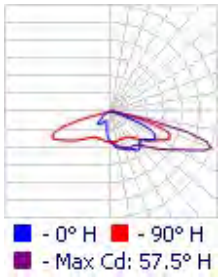
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

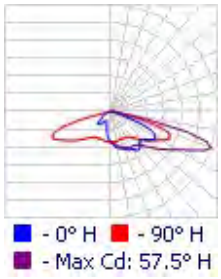
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	78.71 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	78.71 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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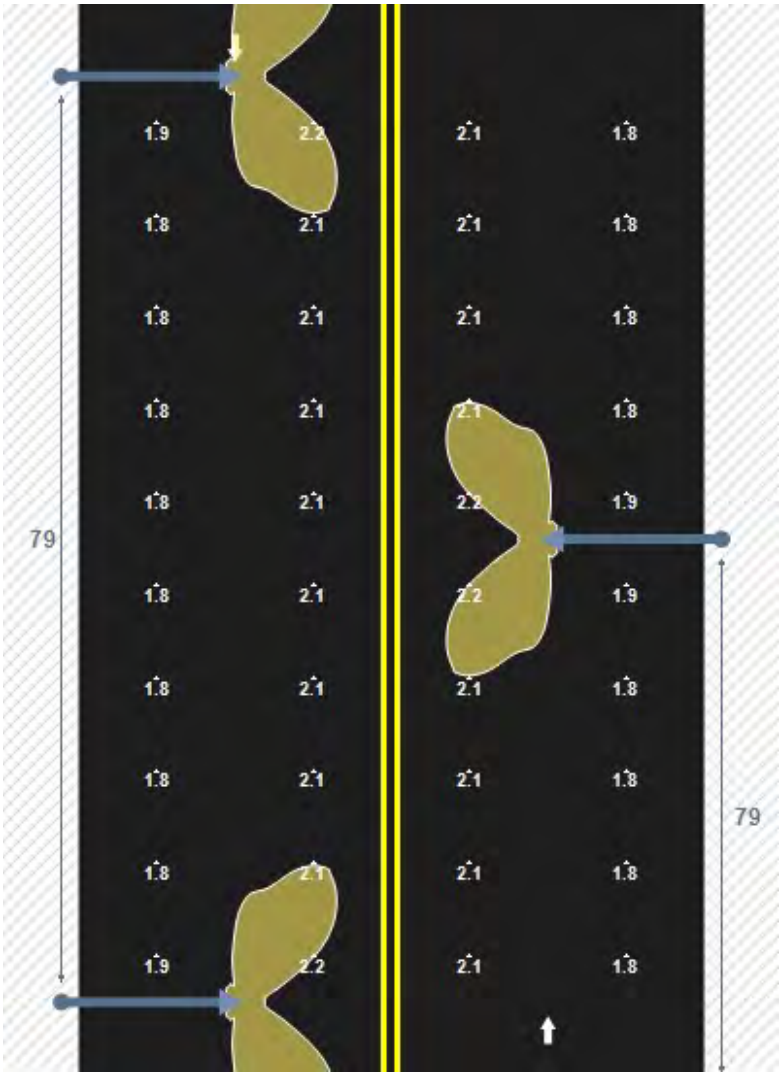

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.3	0.3	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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Project Description

User Name
Company Name
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Your Email

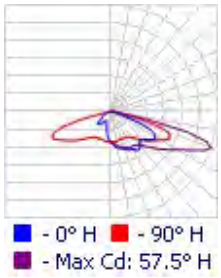
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

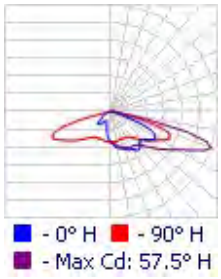
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	78.71 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	78.71 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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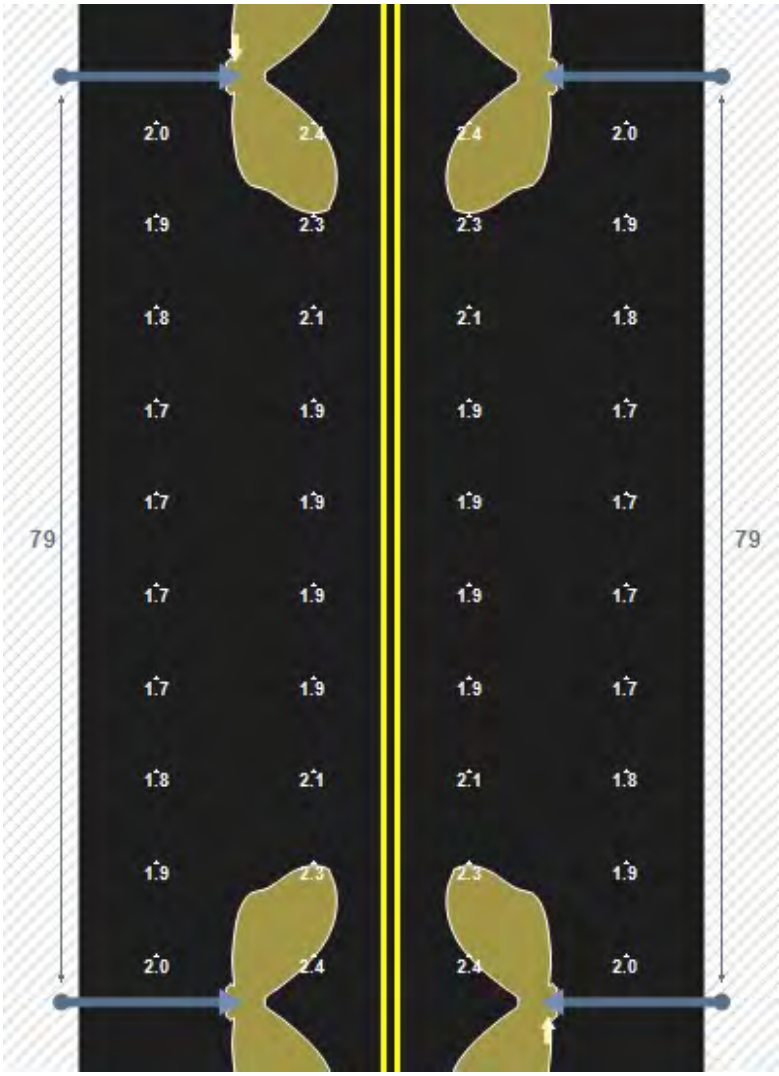

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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Project Description

User Name
Company Name
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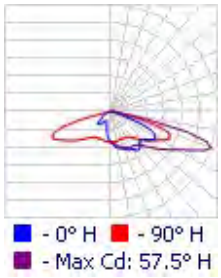
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (31 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

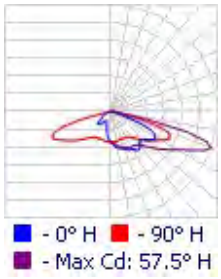
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	65 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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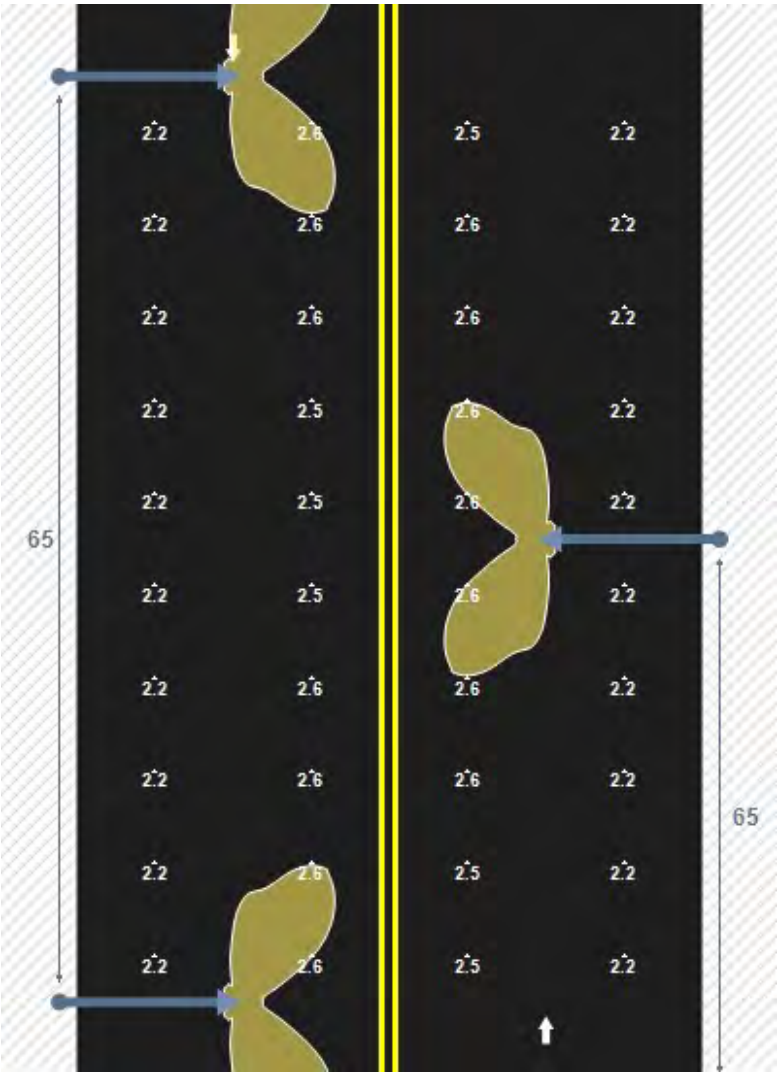

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.2	2.2	cd/m²
Min	1.8	1.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.3	0.3	

Illuminance	Left	Right	
Average:	2.4	2.4	fc
Max:	2.6	2.6	fc
Min	2.2	2.2	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

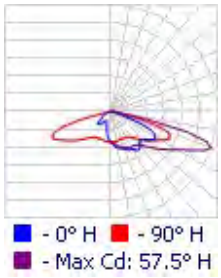
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (30 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

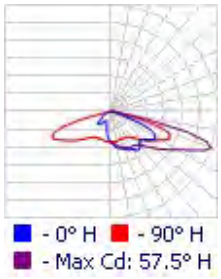
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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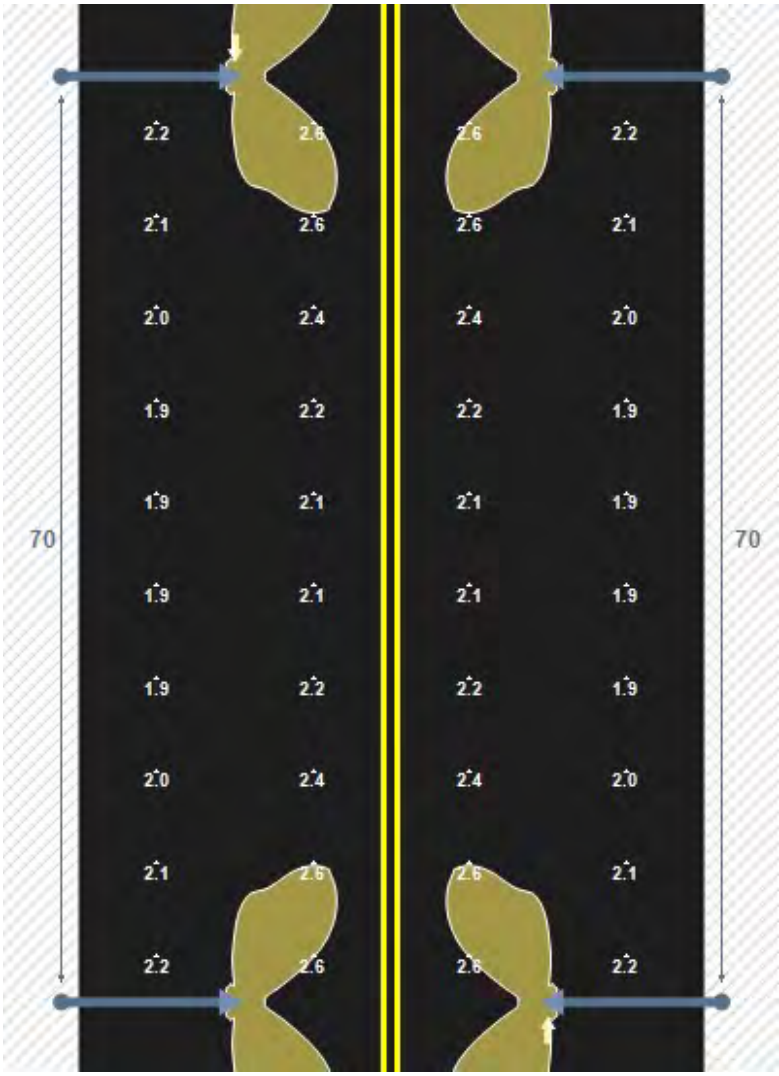

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.8	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.6	1.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2.2	2.2	fc
Max:	2.6	2.6	fc
Min	1.9	1.9	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Company Name
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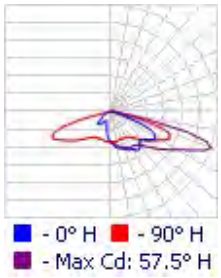
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (27 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

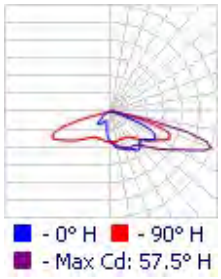
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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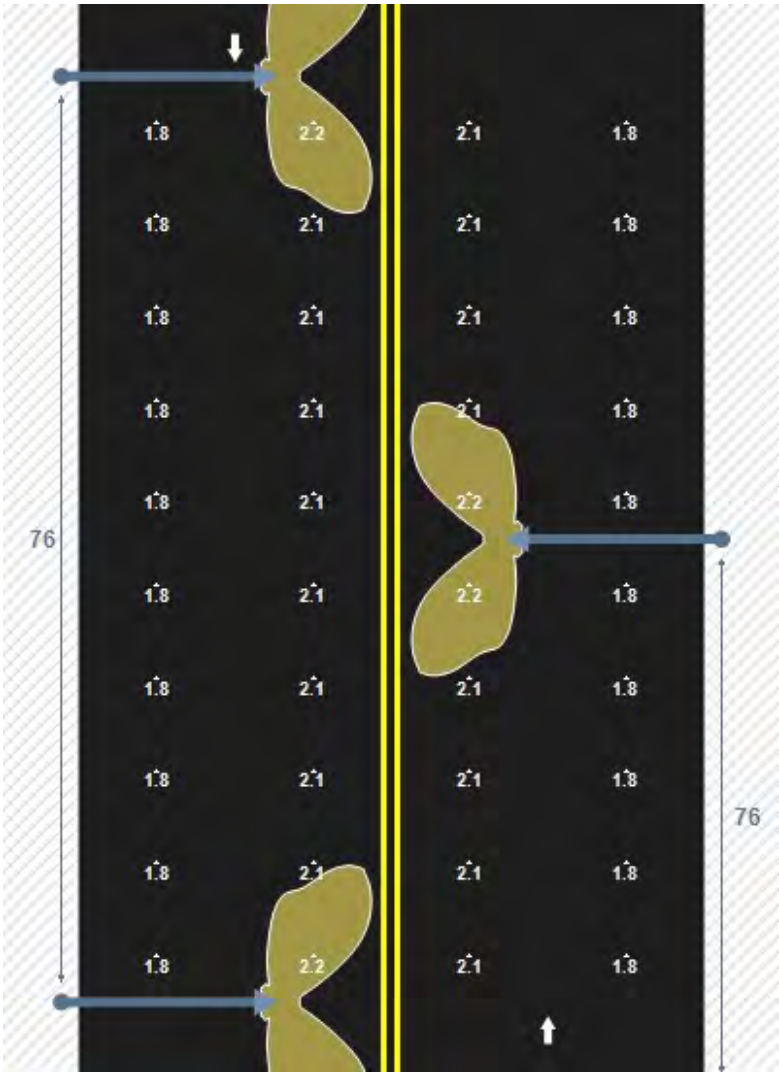

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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Project Description

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Company Name
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Your Email

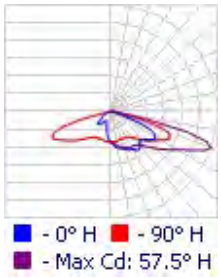
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

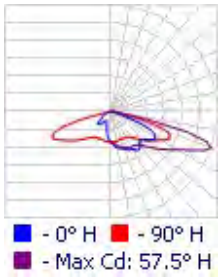
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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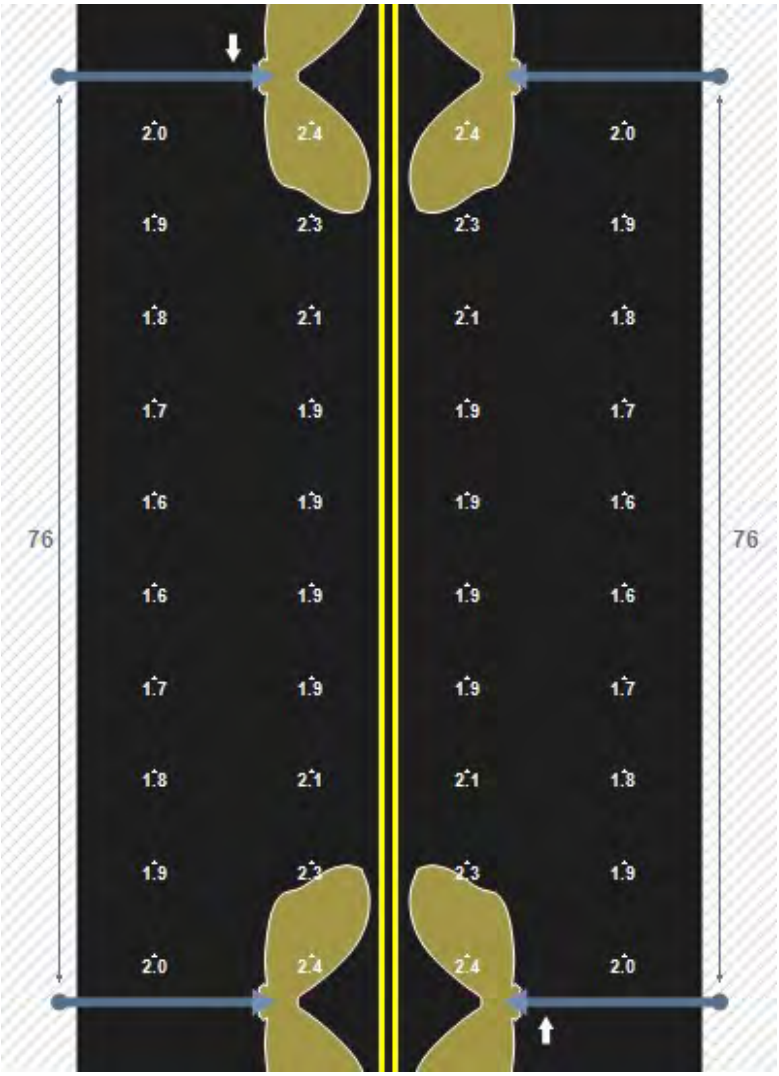

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.6	1.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

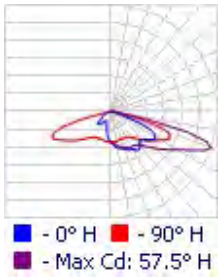
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (30 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

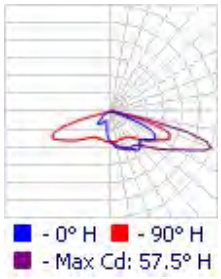
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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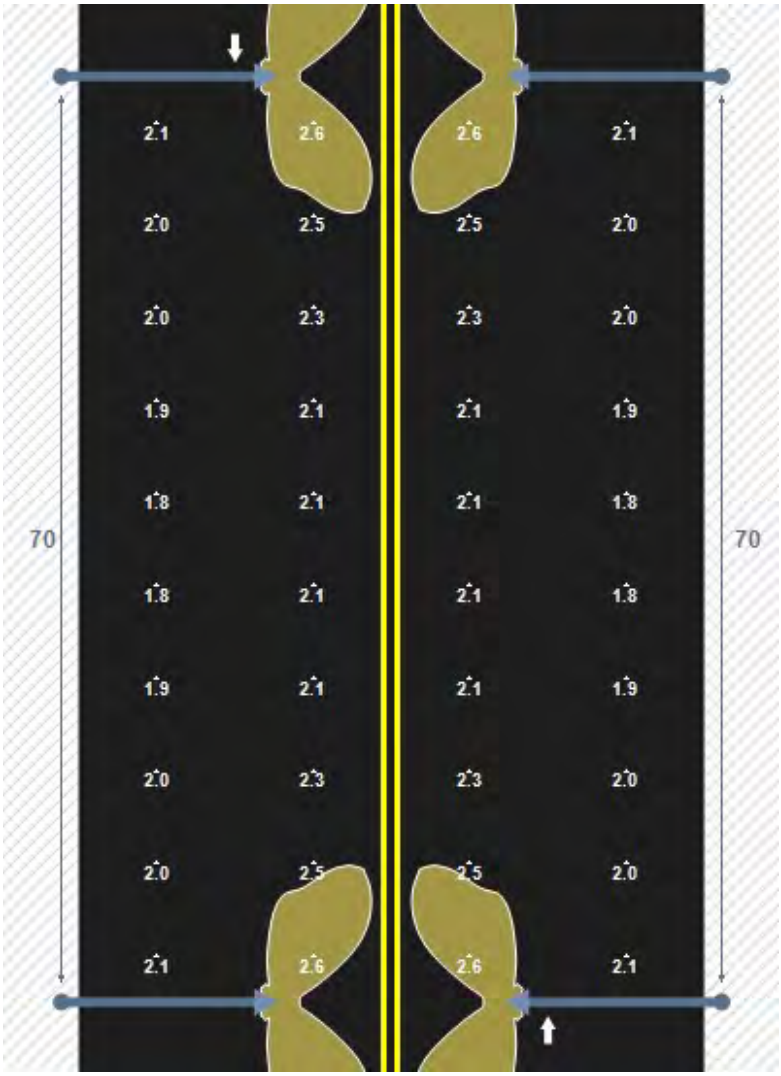

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.8	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.5	1.5	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2.1	2.1	fc
Max:	2.6	2.6	fc
Min	1.8	1.8	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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Project Description

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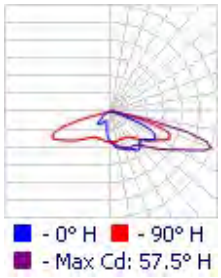
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (29 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

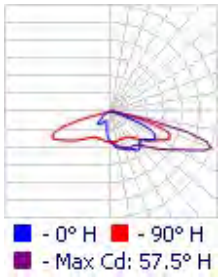
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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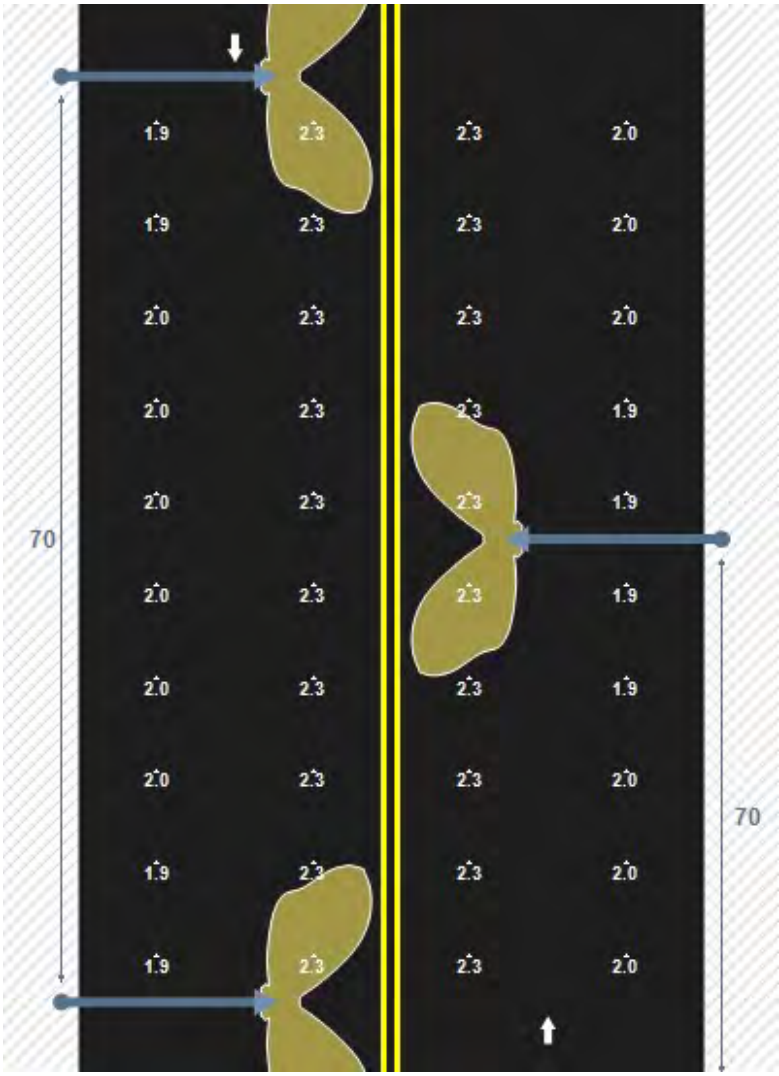

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.8	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.6	1.6	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.4	0.4	

Illuminance	Left	Right	
Average:	2.1	2.1	fc
Max:	2.3	2.3	fc
Min	2	2	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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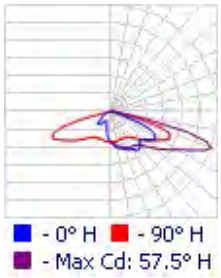
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

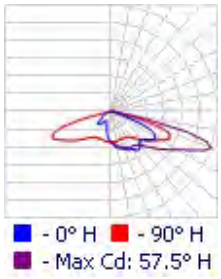
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	72.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	72.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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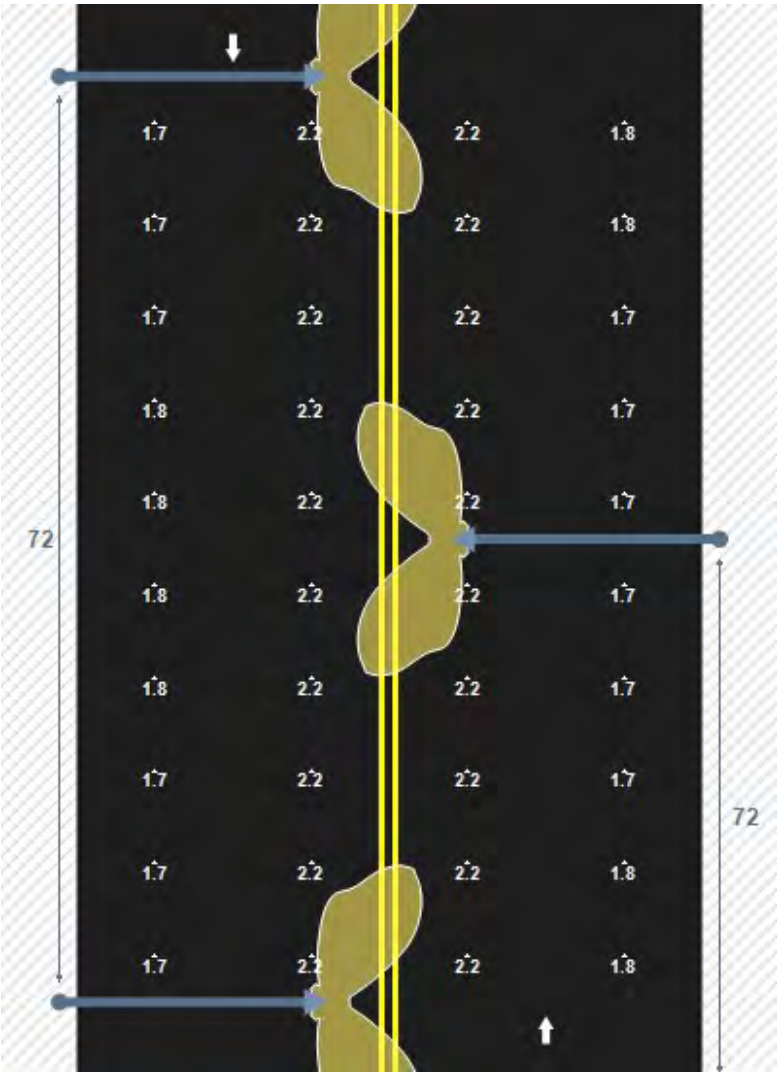

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2	2	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

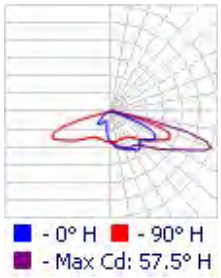
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

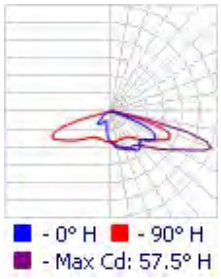
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	72.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	72.31 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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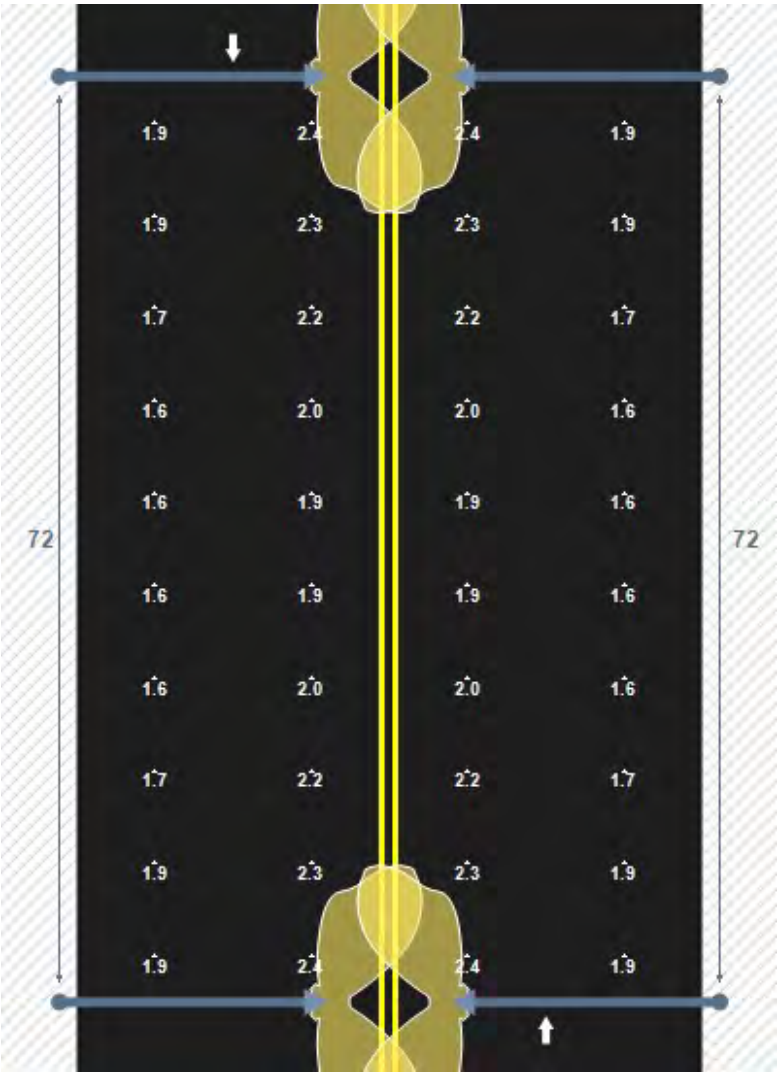

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.7	1.7	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.6	1.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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Project Description

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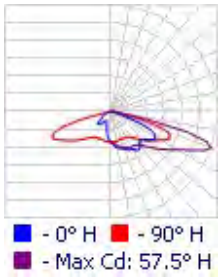
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (30 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

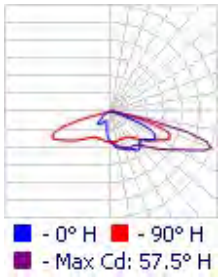
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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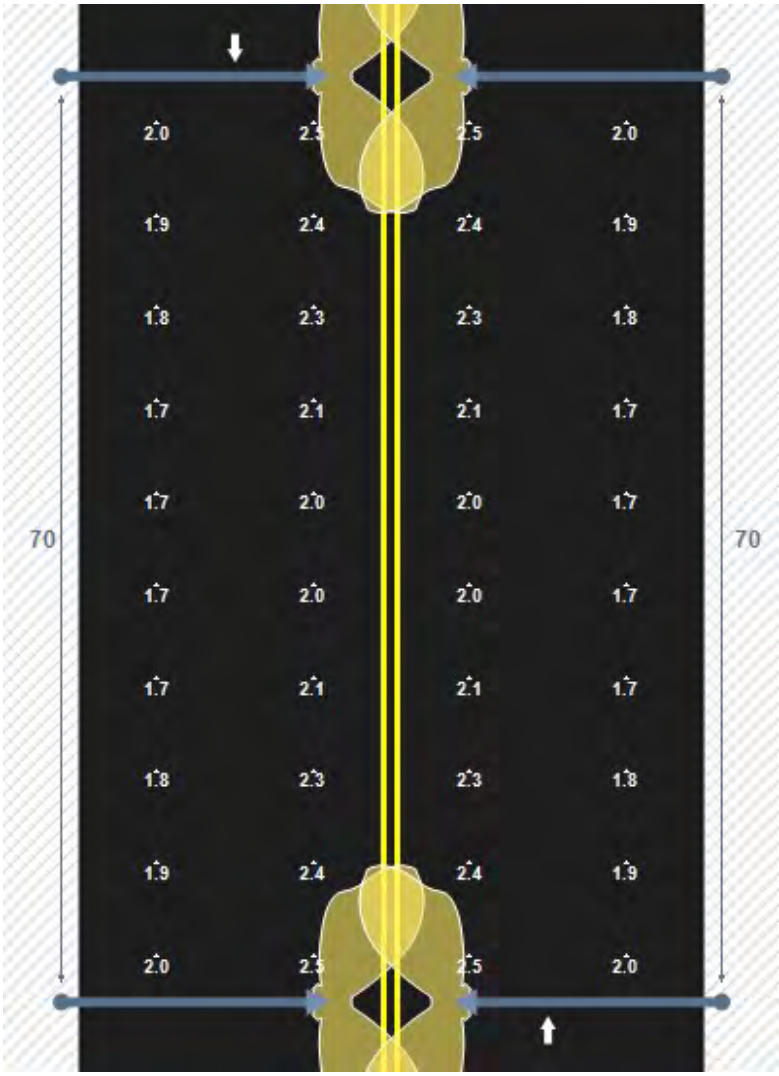

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.8	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.5	2.5	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

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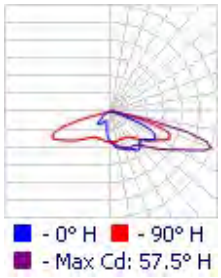
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (29 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 18 ft	Right: 18 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

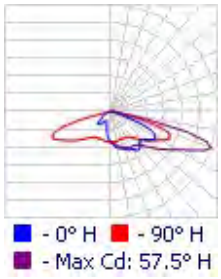
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	70 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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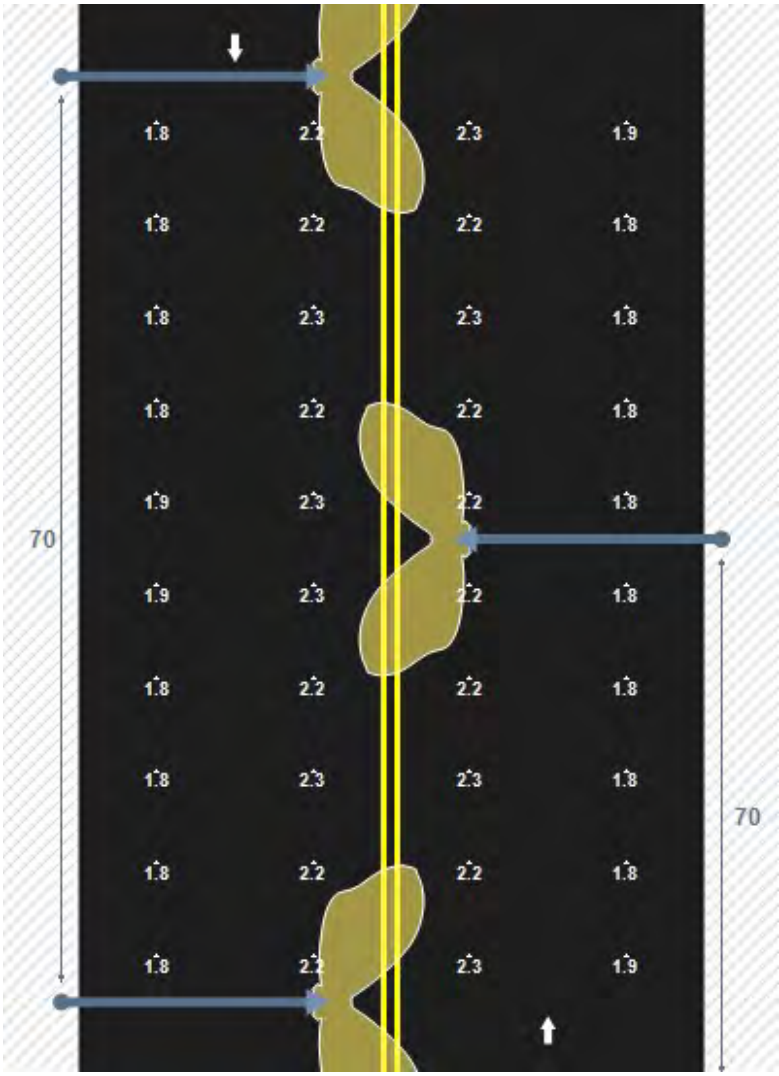

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.8	1.8	cd/m²
Max:	2.1	2.1	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.8	1.8	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
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Your Email

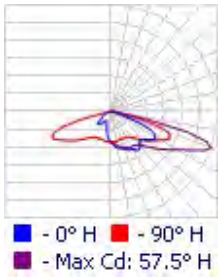
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (27 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

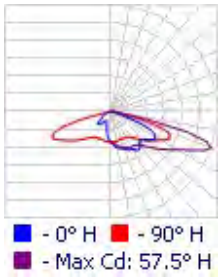
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.5 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.5 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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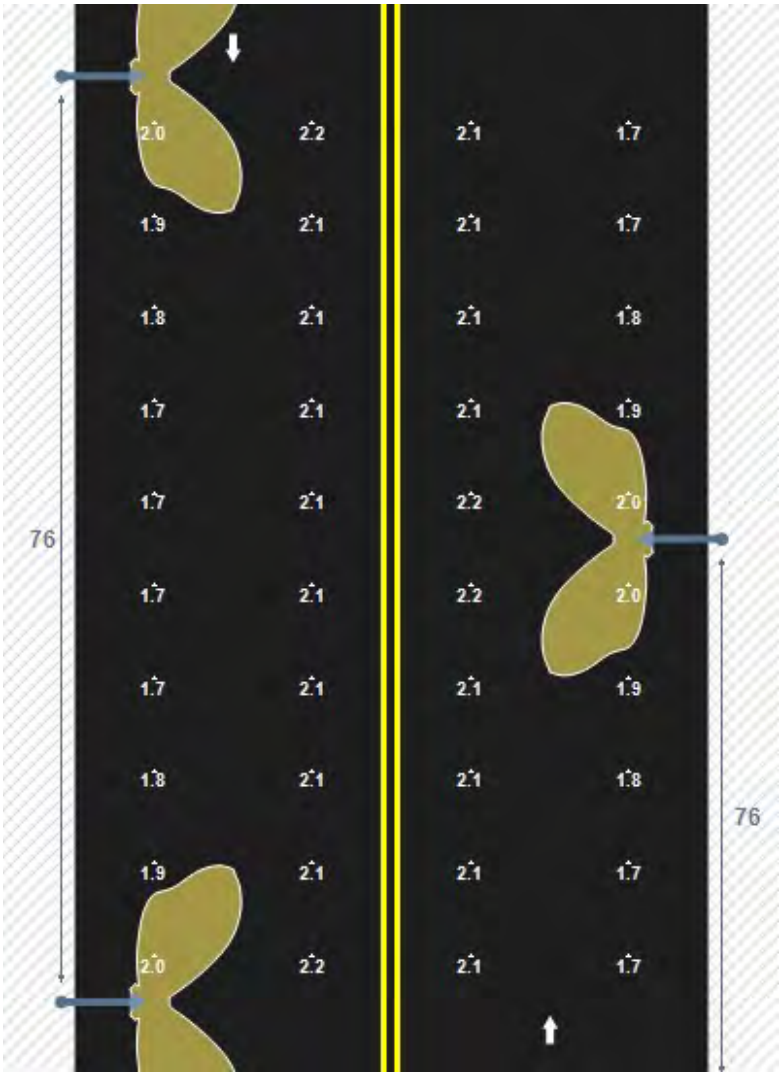

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.5	1.5	cd/m²
Max:	1.6	1.6	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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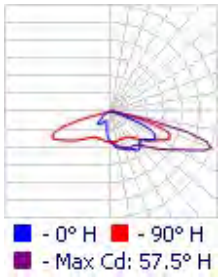
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

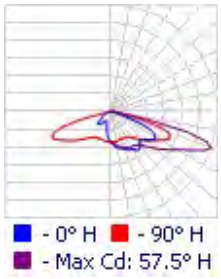
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.5 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.5 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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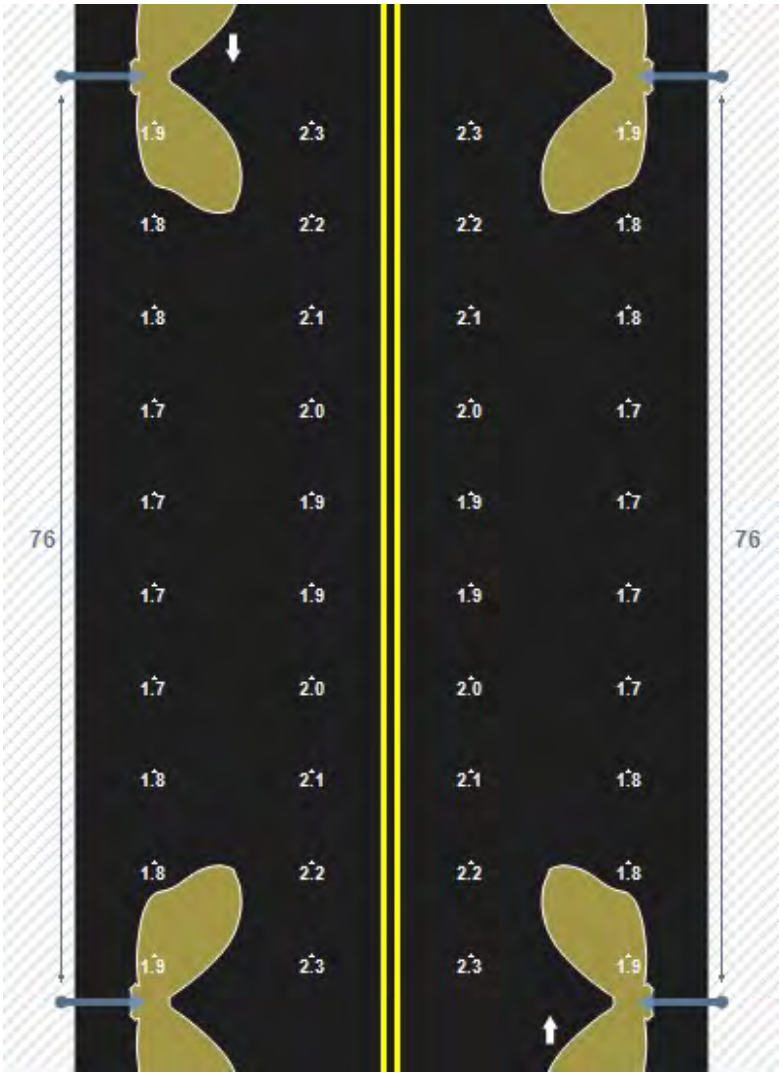

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.5	1.5	cd/m²
Max:	1.7	1.7	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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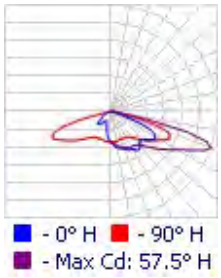
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (38 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

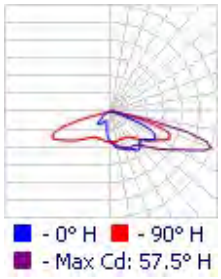
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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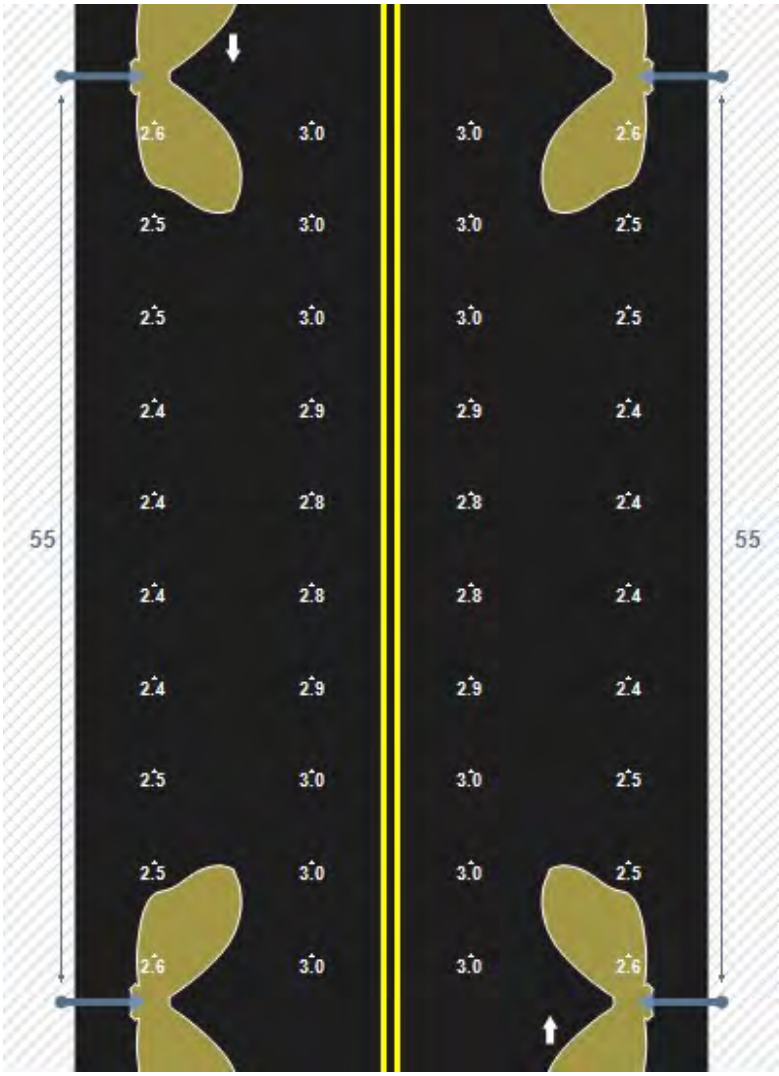

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2.1	2.1	cd/m²
Max:	2.3	2.3	cd/m²
Min	2	2	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2.7	2.7	fc
Max:	3	3	fc
Min	2.4	2.4	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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Your Email

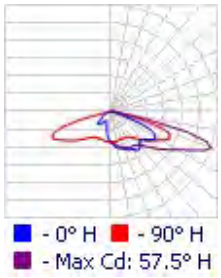
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (37 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

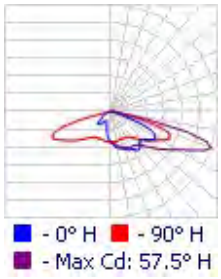
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	6 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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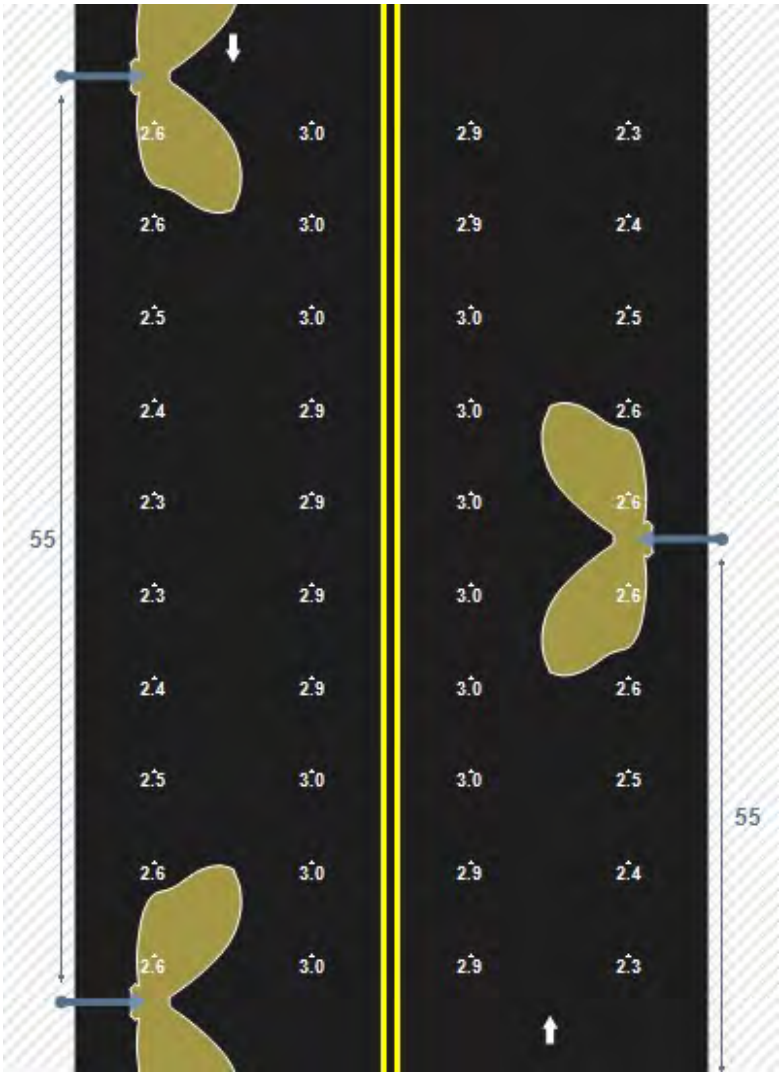

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2.1	2.1	cd/m²
Max:	2.2	2.2	cd/m²
Min	2	2	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.1	1.1	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2.7	2.7	fc
Max:	3	3	fc
Min	2.3	2.3	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Design Information

Friday, April 16, 2021

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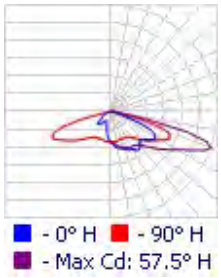
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (27 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

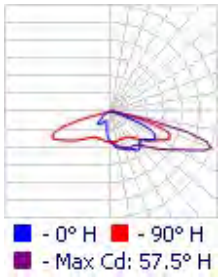
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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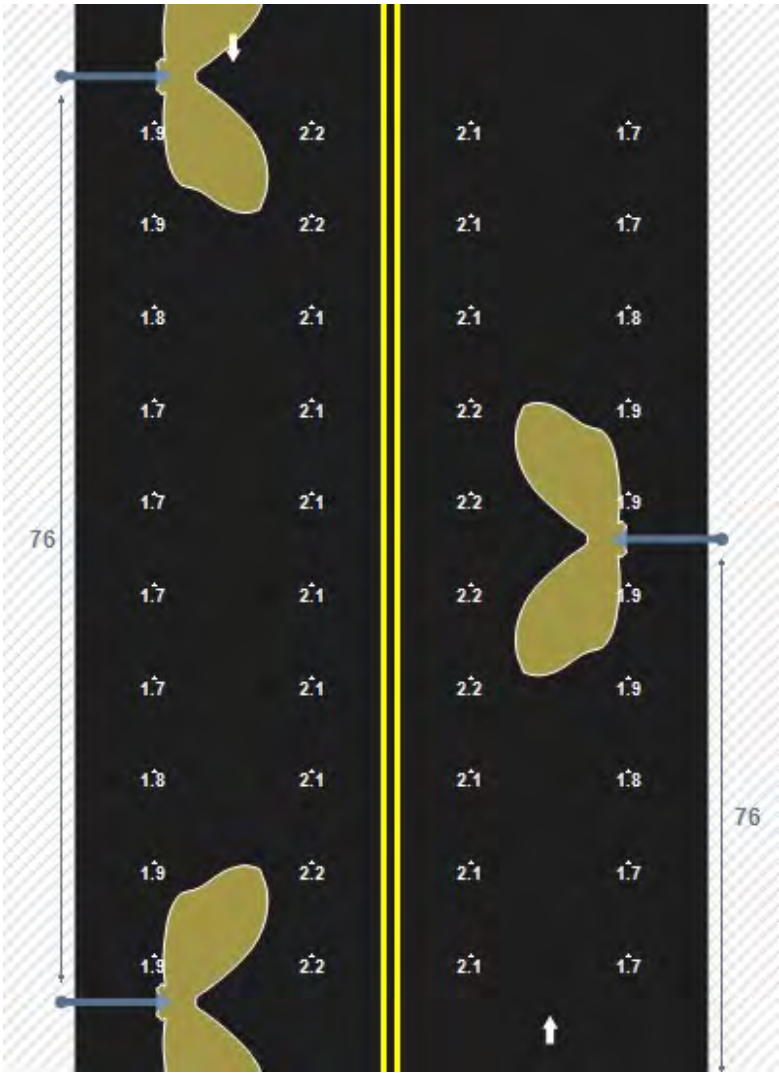

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.7	1.7	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Your Email

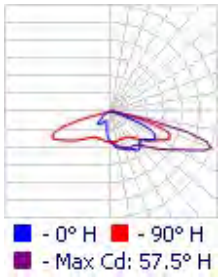
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

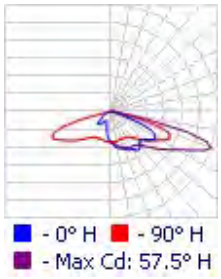
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	76.43 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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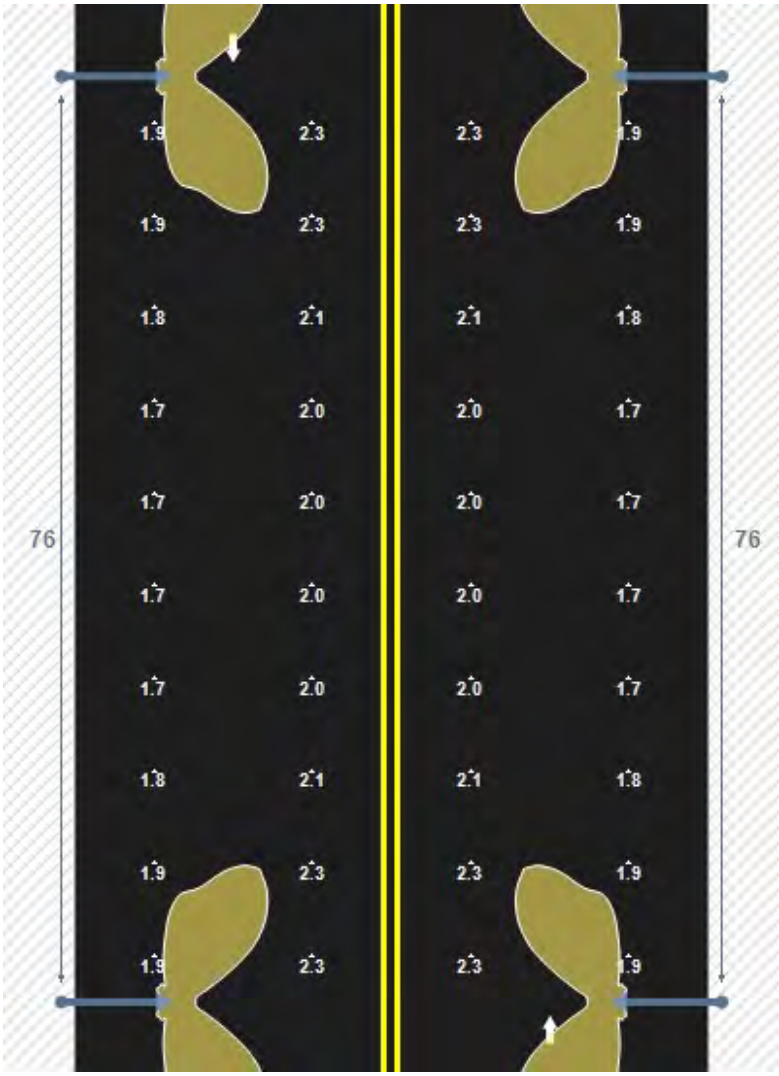

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

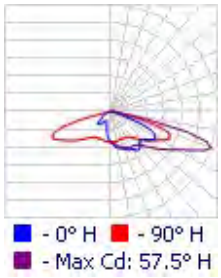
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (38 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

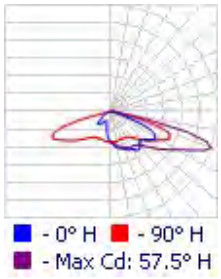
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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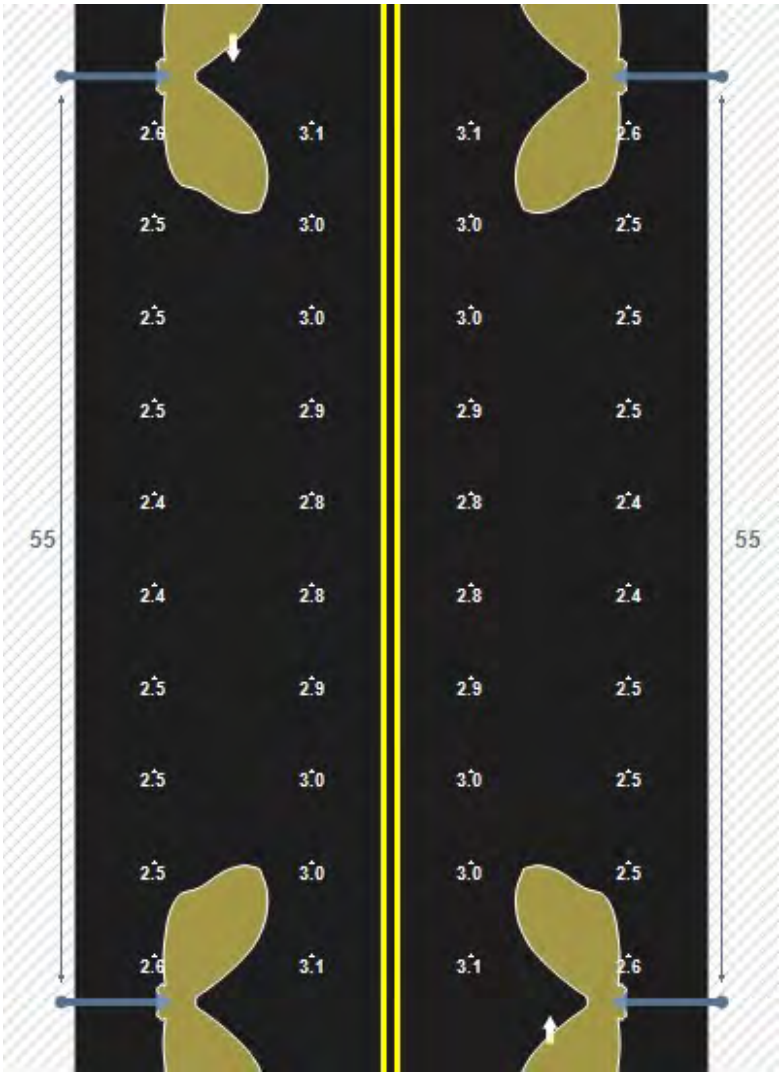

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2.2	2.2	cd/m²
Max:	2.4	2.4	cd/m²
Min	2	2	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2.7	2.7	fc
Max:	3.1	3.1	fc
Min	2.4	2.4	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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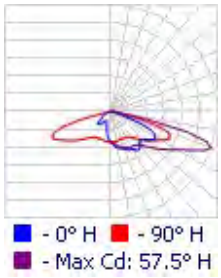
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (37 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

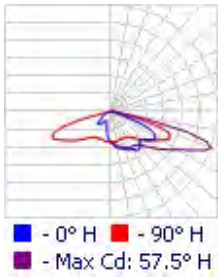
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	55 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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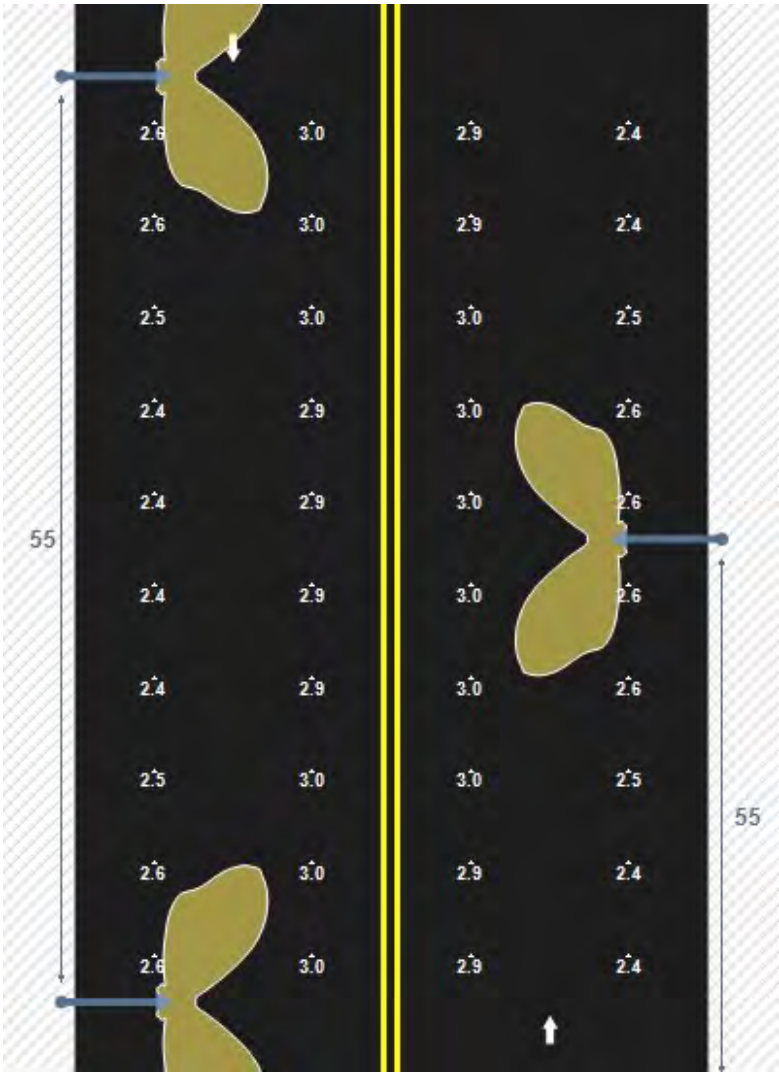

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2.2	2.2	cd/m²
Max:	2.4	2.4	cd/m²
Min	2	2	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.2	1.2	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2.7	2.7	fc
Max:	3	3	fc
Min	2.4	2.4	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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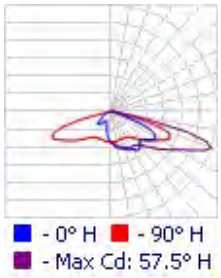
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

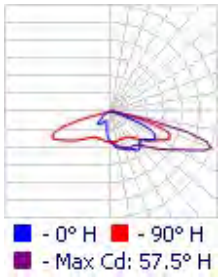
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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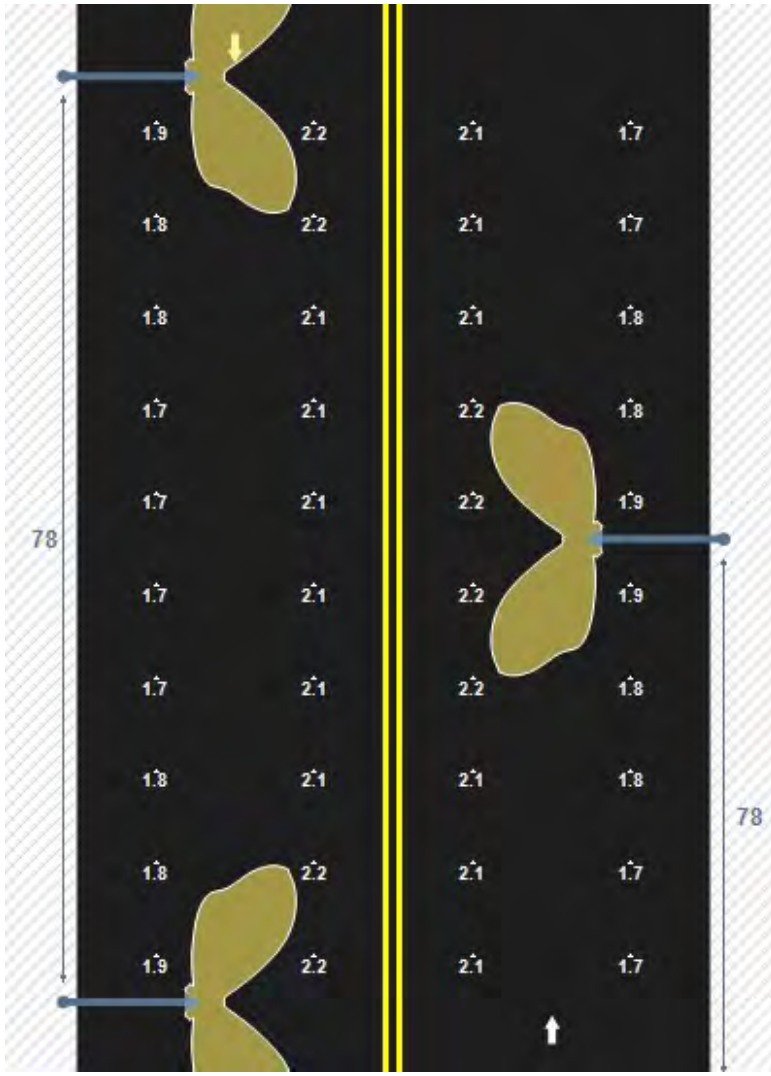

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Your Email

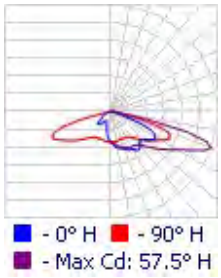
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

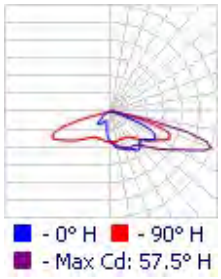
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.68 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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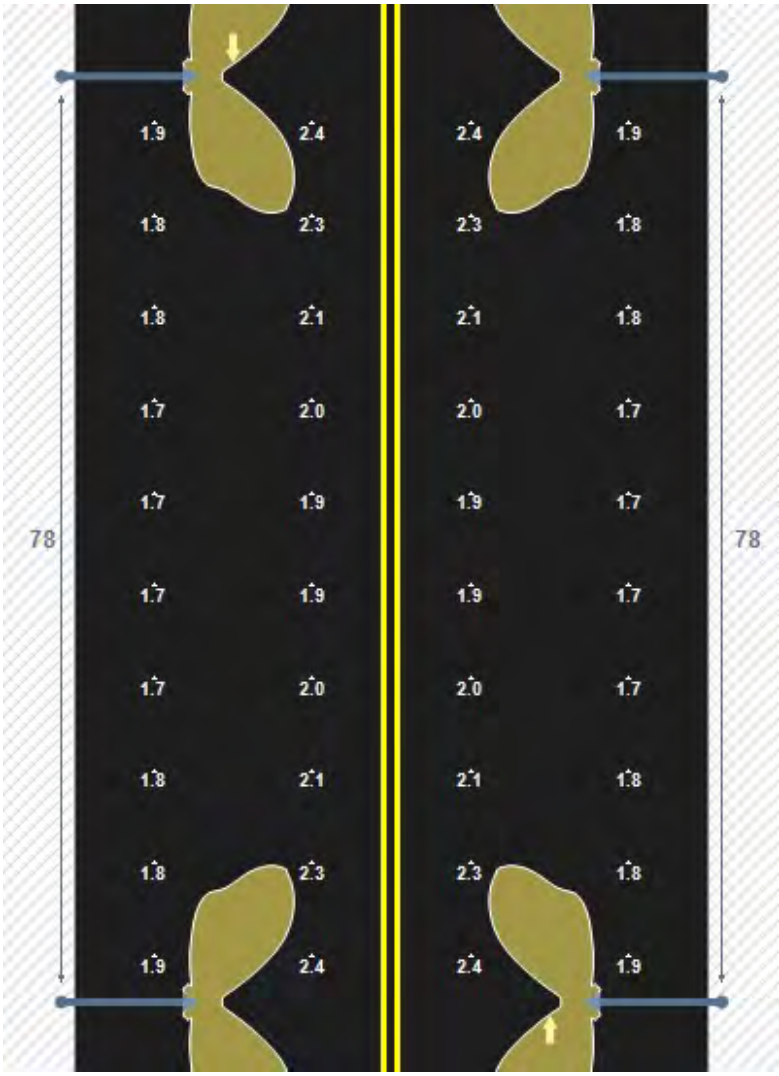

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.4	1.4	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Project Description

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Company Name
Your Phone
Your Email

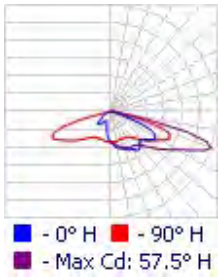
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (34 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

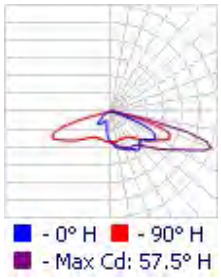
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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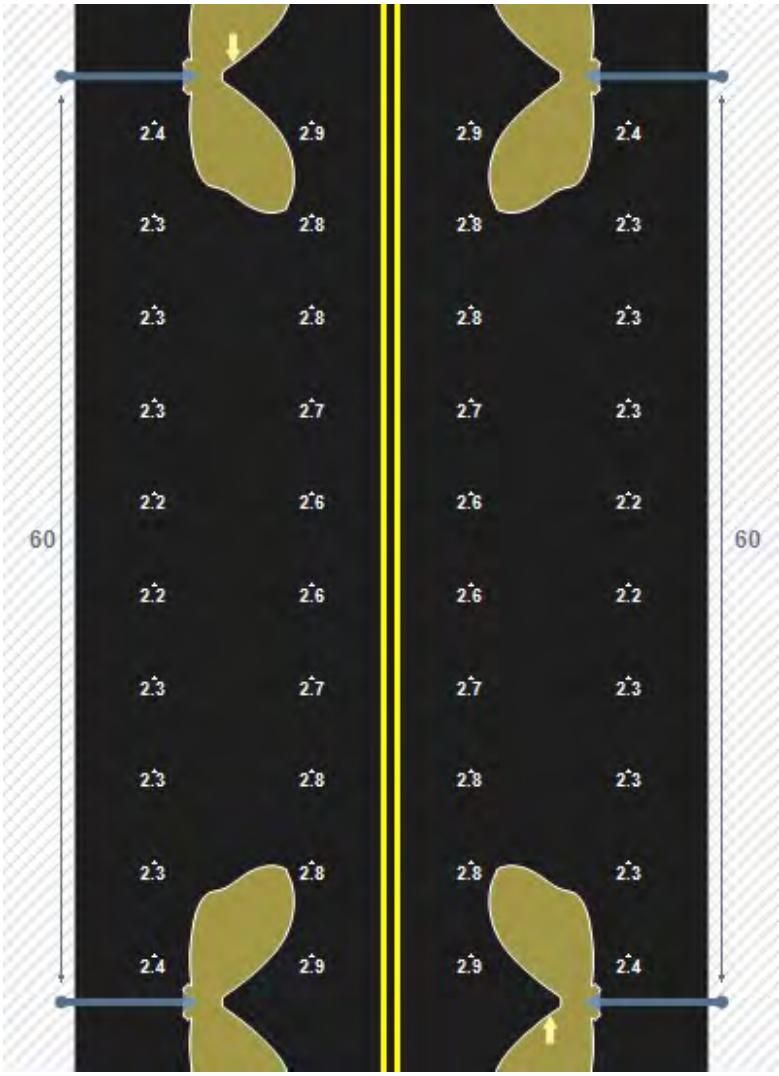

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.3	2.3	cd/m²
Min	1.8	1.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2.5	2.5	fc
Max:	2.9	2.9	fc
Min	2.2	2.2	fc
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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Company Name
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Your Email

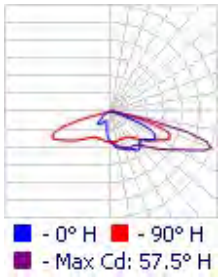
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (34 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

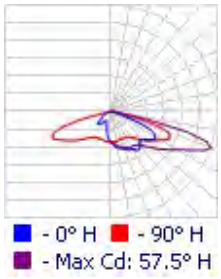
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	10 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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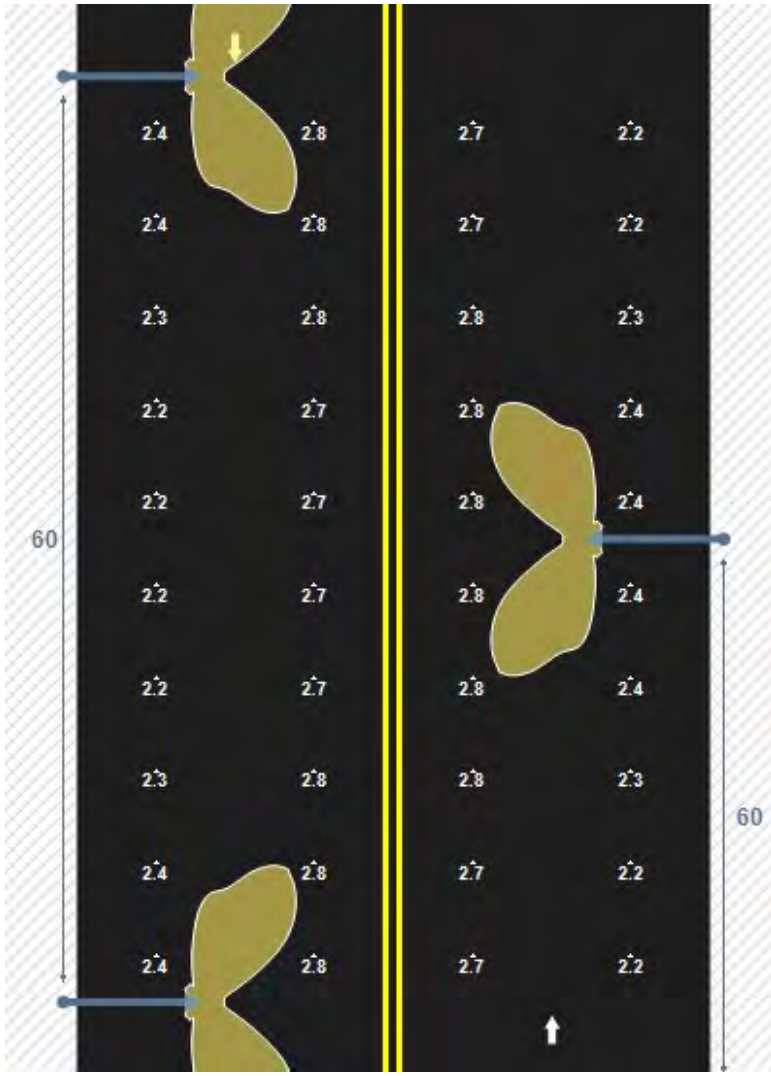

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.3	2.3	cd/m²
Min	1.8	1.8	cd/m²
Ave/Min:	1.1	1.1	
Max/Min:	1.3	1.3	
Lv Ratio:	0.1	0.1	
STV:	0.6	0.6	

Illuminance	Left	Right	
Average:	2.5	2.5	fc
Max:	2.8	2.8	fc
Min	2.2	2.2	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

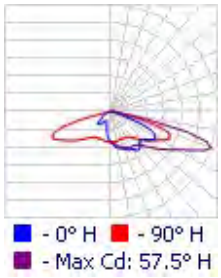
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

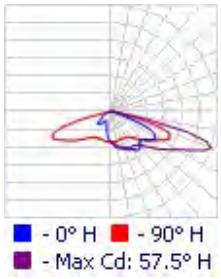
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.42 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.42 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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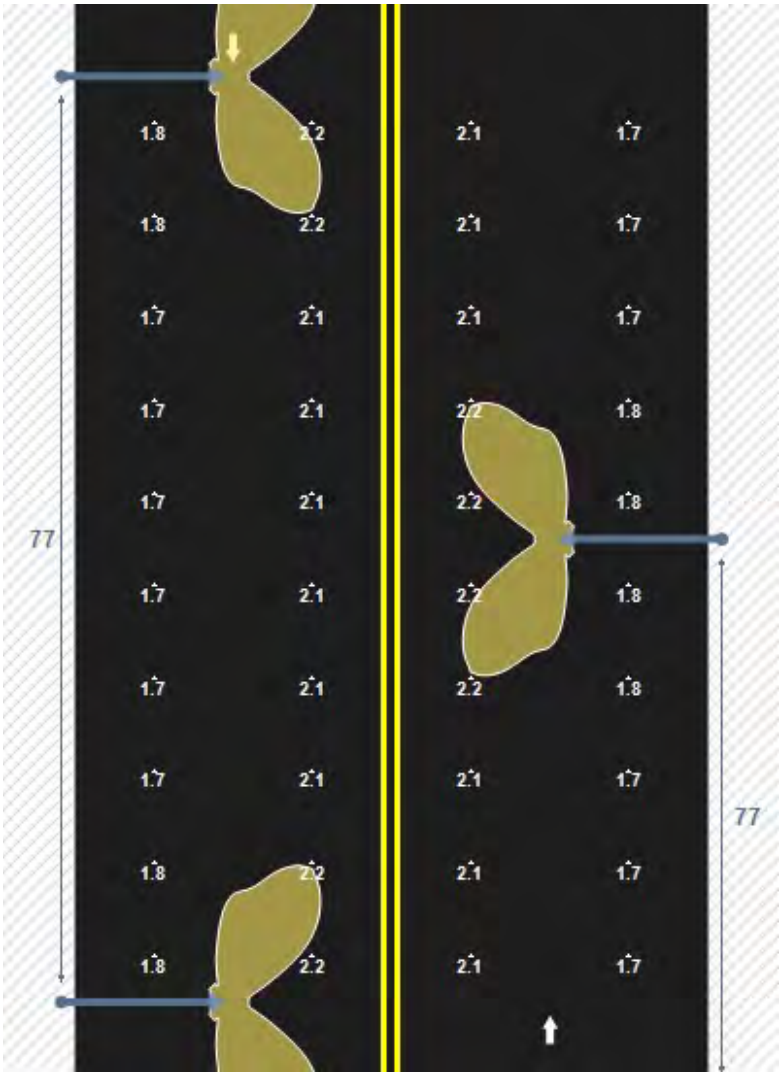

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.8	1.8	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.2	2.2	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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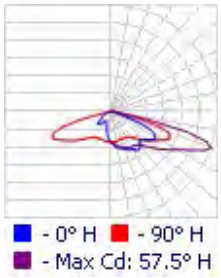
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (26 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

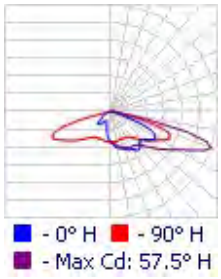
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.42 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	77.42 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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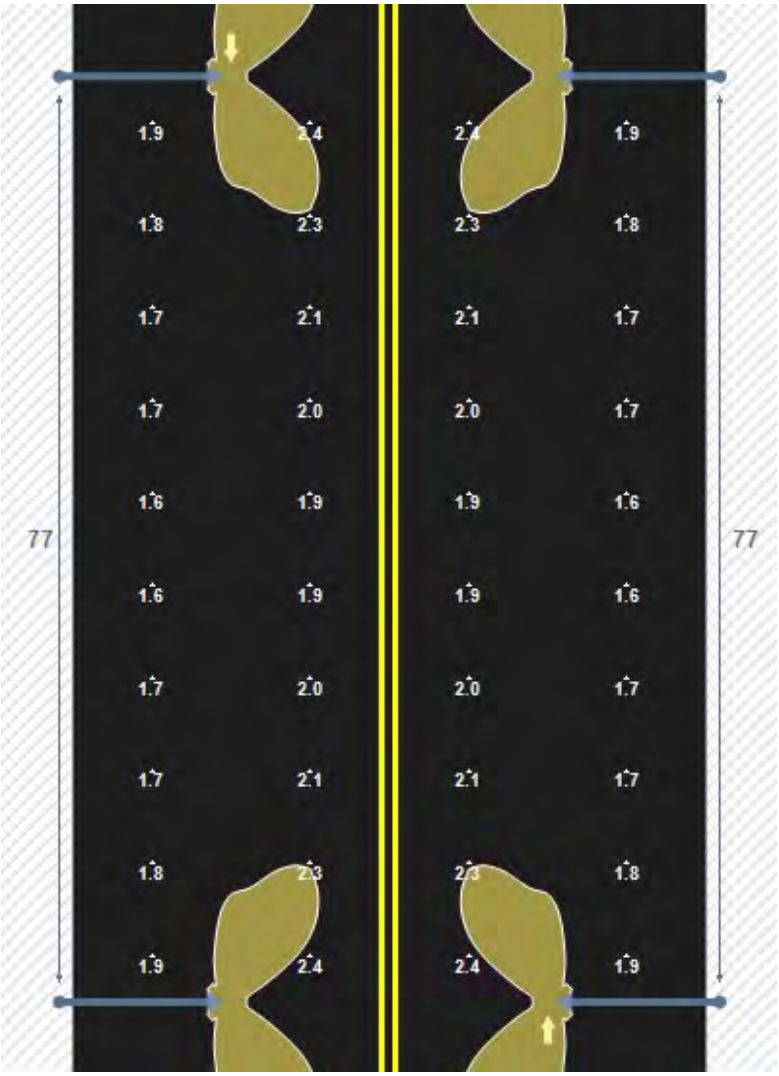

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.8	0.8	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.4	2.4	fc
Min	1.6	1.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.5	1.5	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Project Description

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Your Email

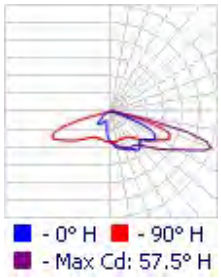
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (34 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

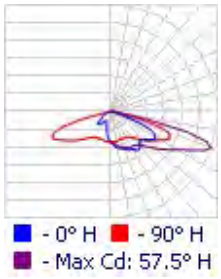
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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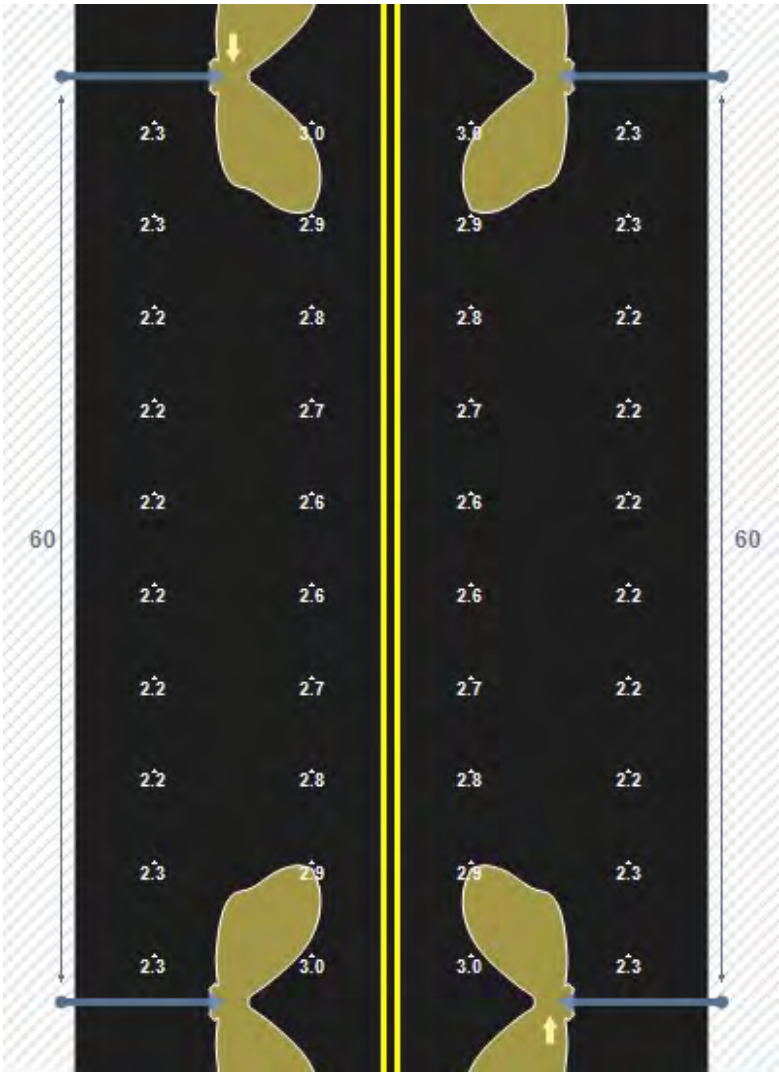

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.4	2.4	cd/m²
Min	1.7	1.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2.5	2.5	fc
Max:	3	3	fc
Min	2.2	2.2	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Project Description

User Name
Company Name
Your Phone
Your Email

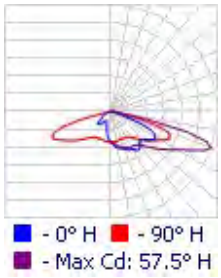
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (34 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

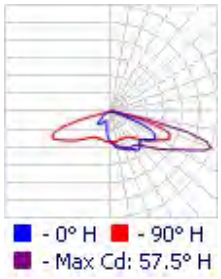
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	12 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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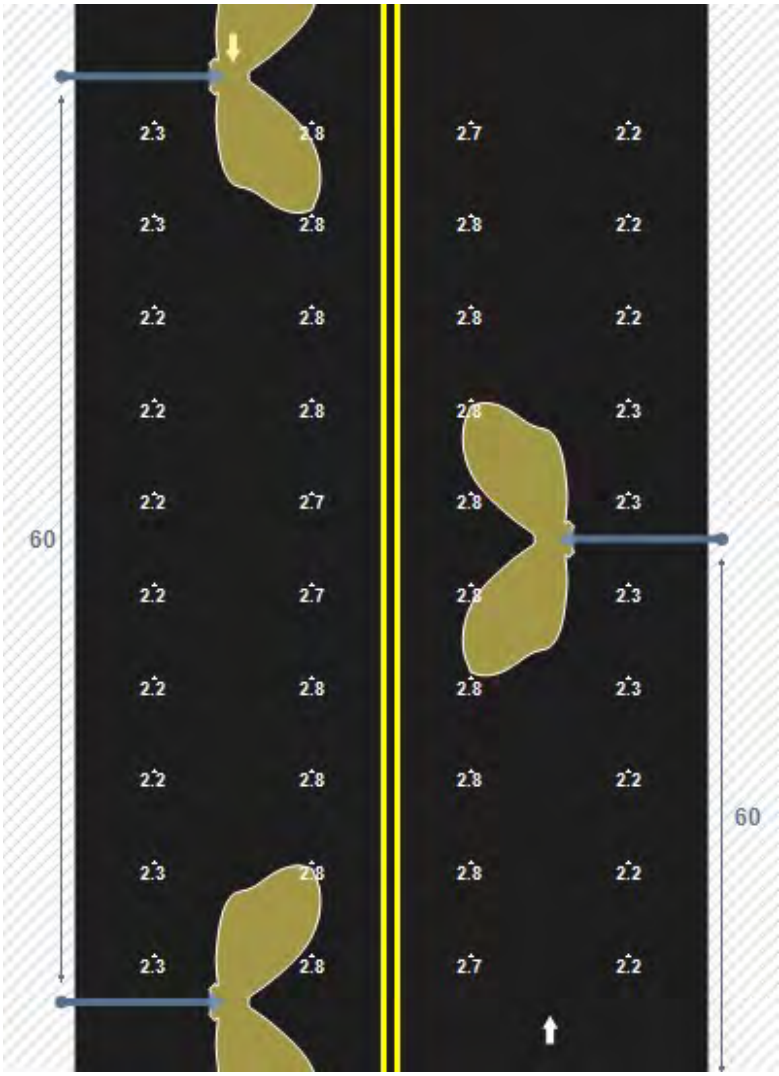

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.3	2.3	cd/m²
Min	1.7	1.7	cd/m²
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	2.5	2.5	fc
Max:	2.8	2.8	fc
Min	2.2	2.2	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

Friday, April 16, 2021

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Project Description

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Company Name
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Your Email

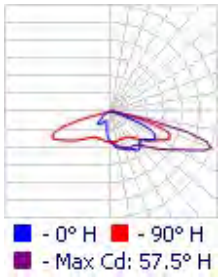
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (27 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

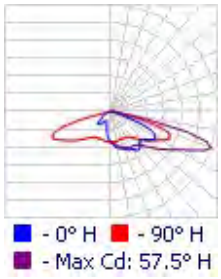
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	74.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	74.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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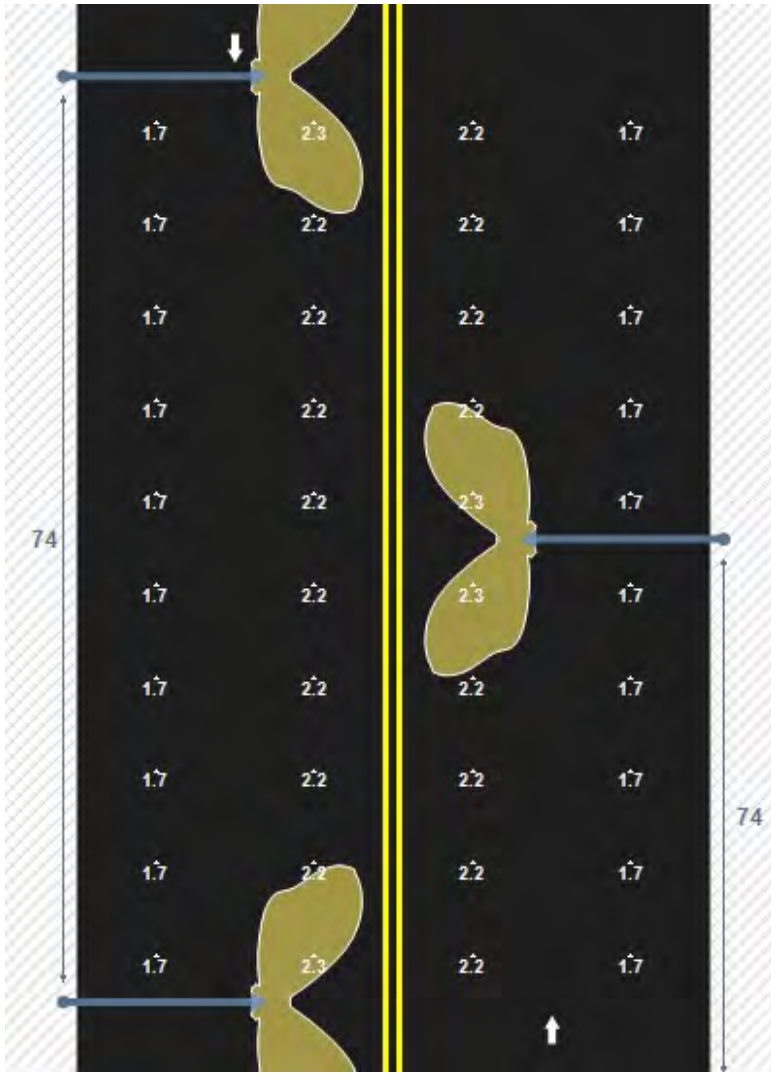

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	1.9	1.9	cd/m²
Min	1.3	1.3	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.3	2.3	fc
Min	1.7	1.7	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

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Design Information

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Your Email

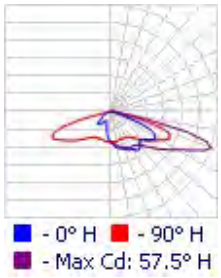
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (28 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

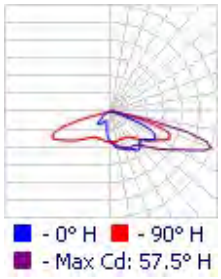
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	74.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	74.48 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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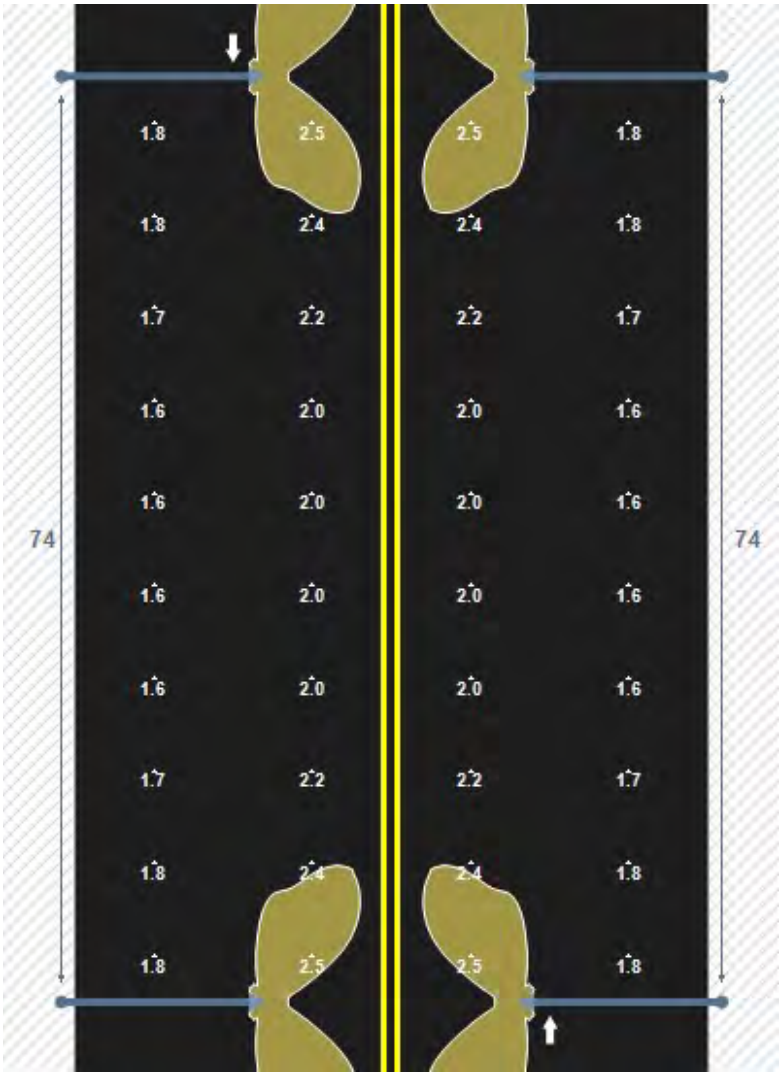

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.6	1.6	cd/m²
Max:	2	2	cd/m²
Min	1.2	1.2	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2	2	fc
Max:	2.5	2.5	fc
Min	1.6	1.6	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.6	1.6	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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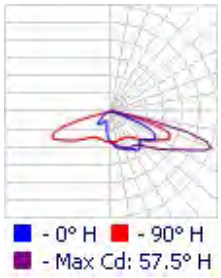
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (34 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

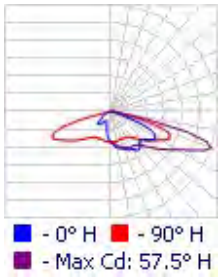
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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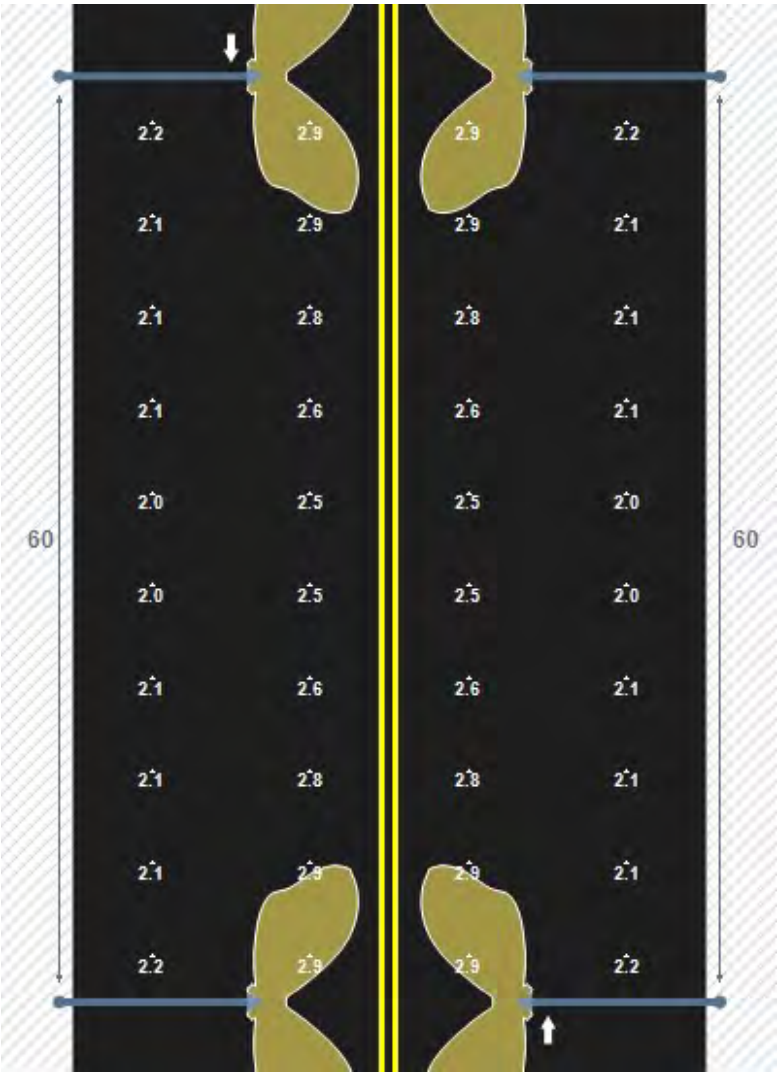
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.4	2.4	cd/m²
Min	1.6	1.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.6	1.6	
Lv Ratio:	0.1	0.1	
STV:	0.7	0.7	

Illuminance	Left	Right	
Average:	2.4	2.4	fc
Max:	2.9	2.9	fc
Min	2	2	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.4	1.4	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Friday, April 16, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

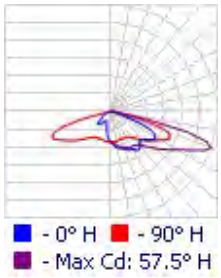
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (34 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 24 ft	Right: 24 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

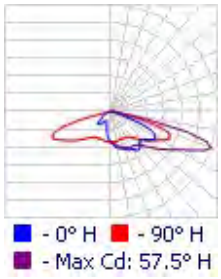
Left Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	False	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



Right Side - American Electric Lighting: ATB0 20BLEDE10 XXXXX R3 3K

Cycle Spacing:	60 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	270	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	8080
Staggered:	True	Wattage:	71
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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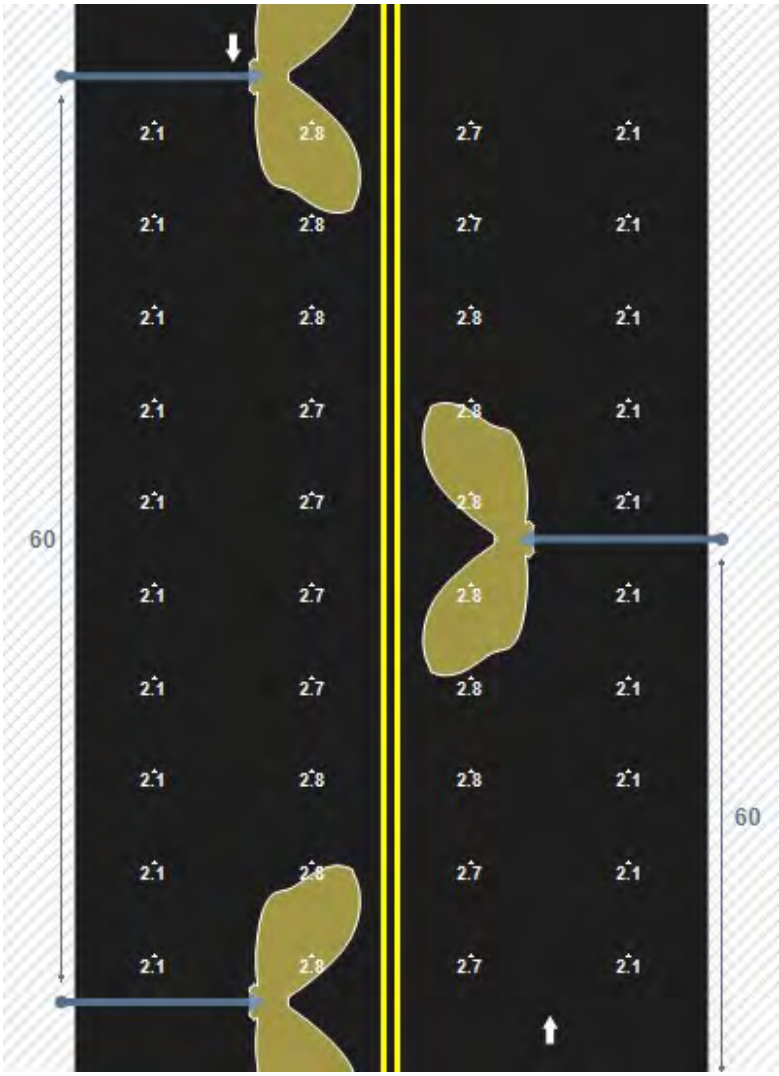

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	2	2	cd/m²
Max:	2.4	2.4	cd/m²
Min	1.6	1.6	cd/m²
Ave/Min:	1.3	1.3	
Max/Min:	1.5	1.5	
Lv Ratio:	0.1	0.1	
STV:	0.5	0.5	

Illuminance	Left	Right	
Average:	2.4	2.4	fc
Max:	2.8	2.8	fc
Min	2.1	2.1	fc
Ave/Min:	1.2	1.2	
Max/Min:	1.3	1.3	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

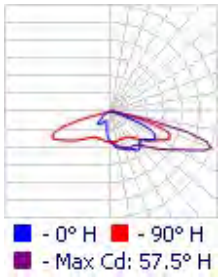
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	110.66 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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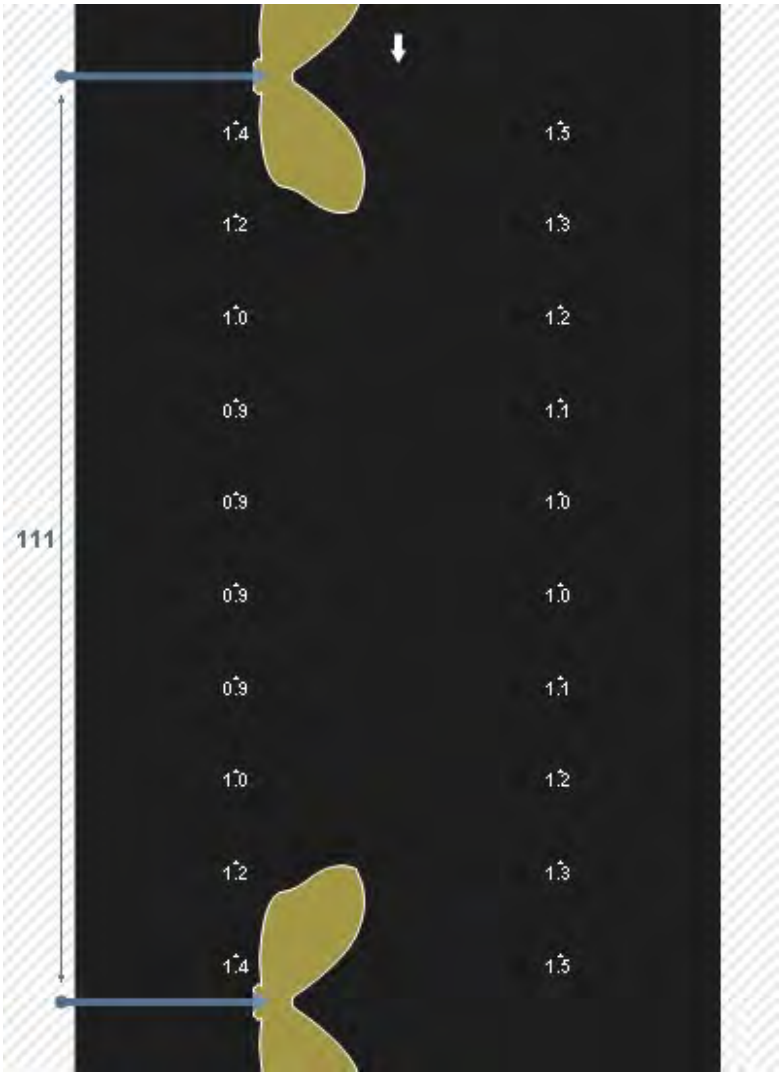

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.8	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.3	--	
Lv Ratio:	0.1	--	
STV:	1.2	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.5	--	fc
Min	0.9	--	fc
Ave/Min:	1.3	--	
Max/Min:	1.7	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Tuesday, May 18, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

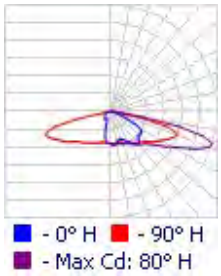
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (14 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	76.89 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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Visual - Roadway Tool

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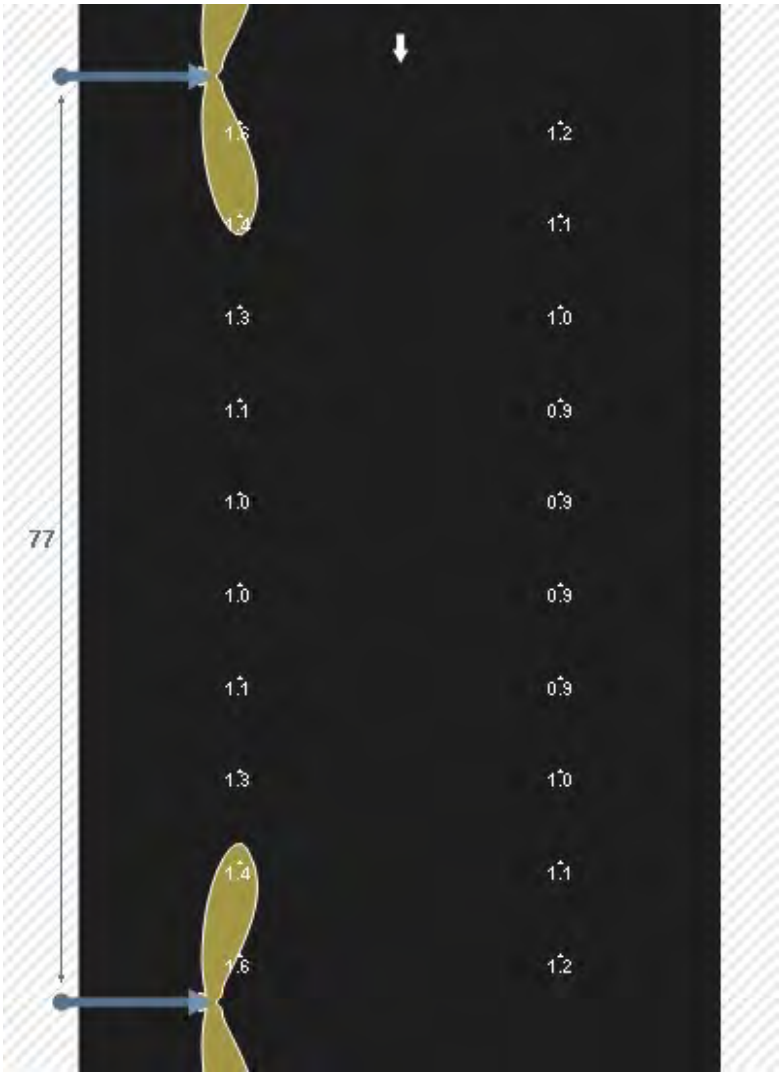

Illuminance

Calculation Results

Luminance	Left	Right	
Average:	1.1	--	cd/m²
Max:	1.4	--	cd/m²
Min	0.7	--	cd/m²
Ave/Min:	1.5	--	
Max/Min:	2	--	
Lv Ratio:	0.1	--	
STV:	1.4	--	

Illuminance	Left	Right	
Average:	1.2	--	fc
Max:	1.6	--	fc
Min	0.9	--	fc
Ave/Min:	1.4	--	
Max/Min:	1.8	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

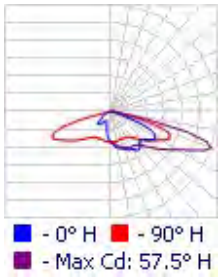
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	148.38 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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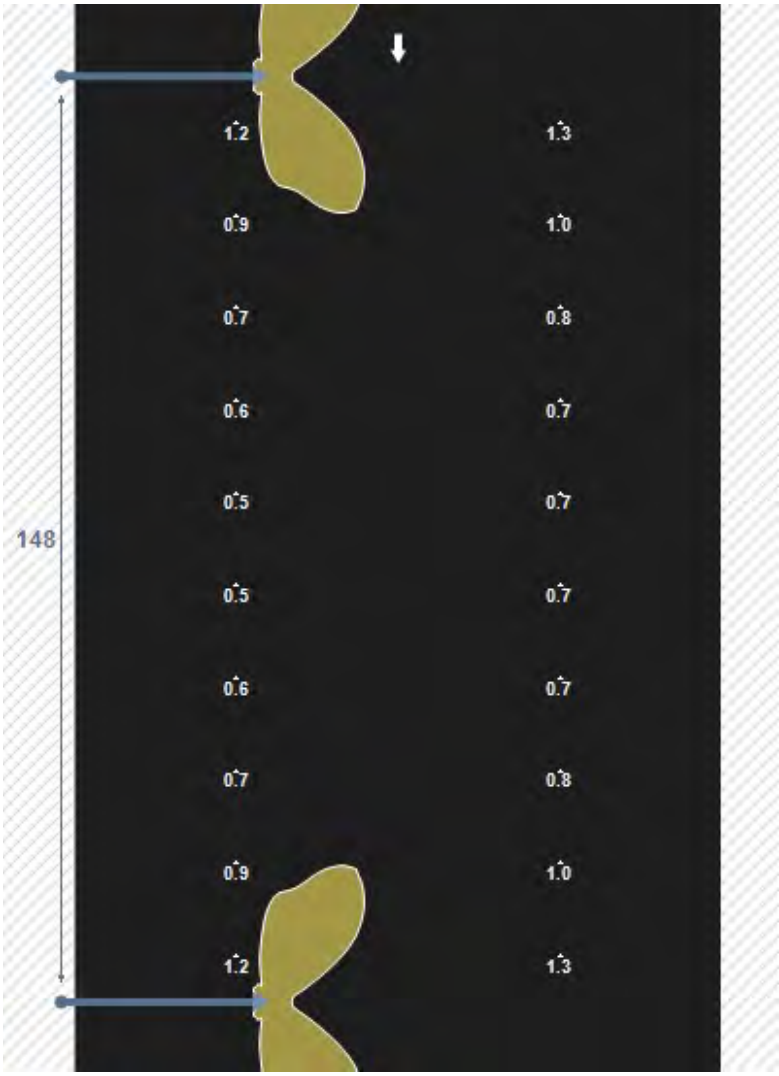
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

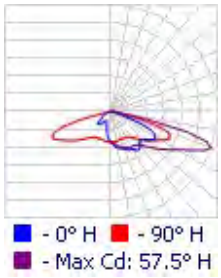
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (7 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 48 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 30BLEDE13 XXXXX R3 3K

Cycle Spacing:	148.38 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	15 ft
Orientation:	90	Tilt:	0
Mounting Height:	40 ft	Lamp Lumens:	13893
Staggered:	False	Wattage:	126
Light Loss Factor:	0.88	Lamp Count:	1



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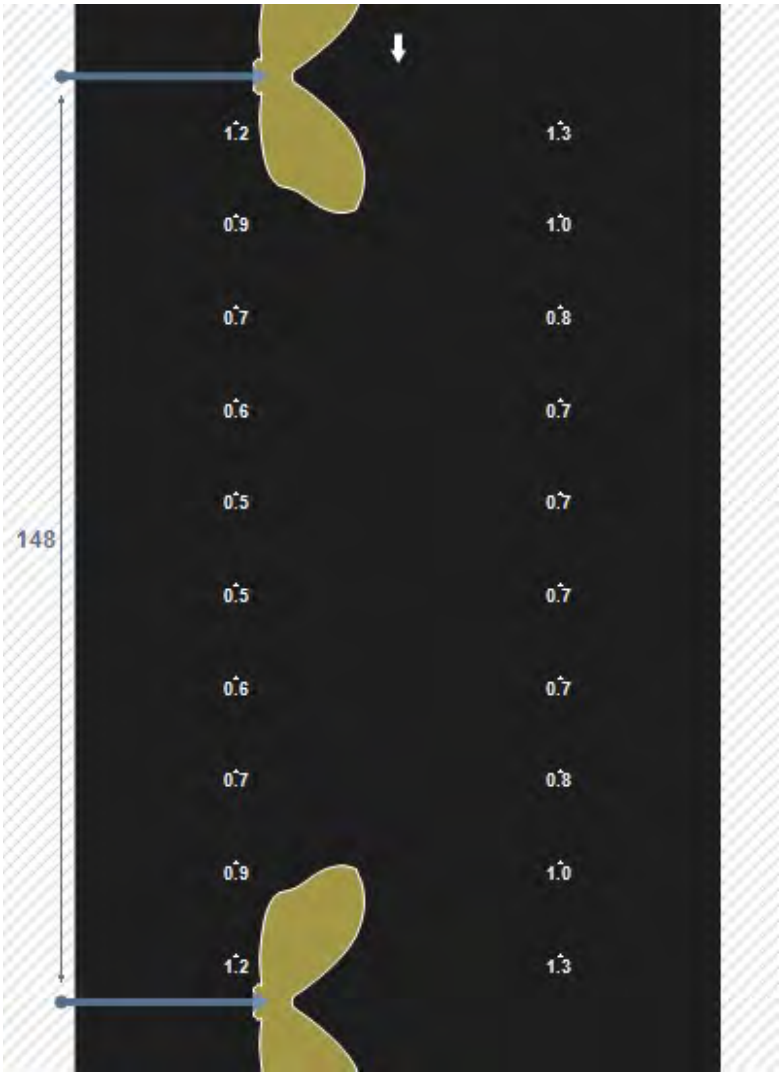
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.7	--	cd/m²
Max:	0.8	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.2	--	
Max/Min:	1.4	--	
Lv Ratio:	0.1	--	
STV:	1.7	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.3	--	fc
Min	0.6	--	fc
Ave/Min:	1.6	--	
Max/Min:	2.3	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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Visual - Roadway Tool

www.Visual-3D.com

Design Information

Monday, May 17, 2021

Project Name
Project Description

User Name
Company Name
Your Phone
Your Email

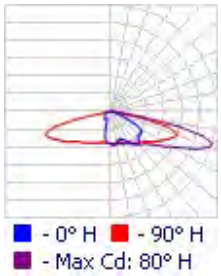
Roadway

Calculation Method	RP-8-2000 2007 errata		**Median**		
Road Surface	R2		Width	0 ft	
Road Class	Major		**Sidewalk**		
Pedestrians	None		Width	Left: 0 ft	Right: 0 ft
Roadway Length	1,000 (10 Pole Locations)		Setback	Left: 0 ft	Right: 0 ft
Lane Quantity	Left: 1	Right: 1	**Bikelane**		
Lane Width	Left: 36 ft	Right: 0 ft	Width	Left: 0 ft	Right: 0 ft
			Setback	Left: 0 ft	Right: 0 ft

Luminaire Information

Left Side - American Electric Lighting: ATB0 20BLEDE70 XXXXX R2 3K

Cycle Spacing:	103.56 ft	Configuration:	Single
Setback:	1 ft	Arm Length:	8 ft
Orientation:	90	Tilt:	0
Mounting Height:	30 ft	Lamp Lumens:	5652
Staggered:	False	Wattage:	48
Light Loss Factor:	0.88	Lamp Count:	1



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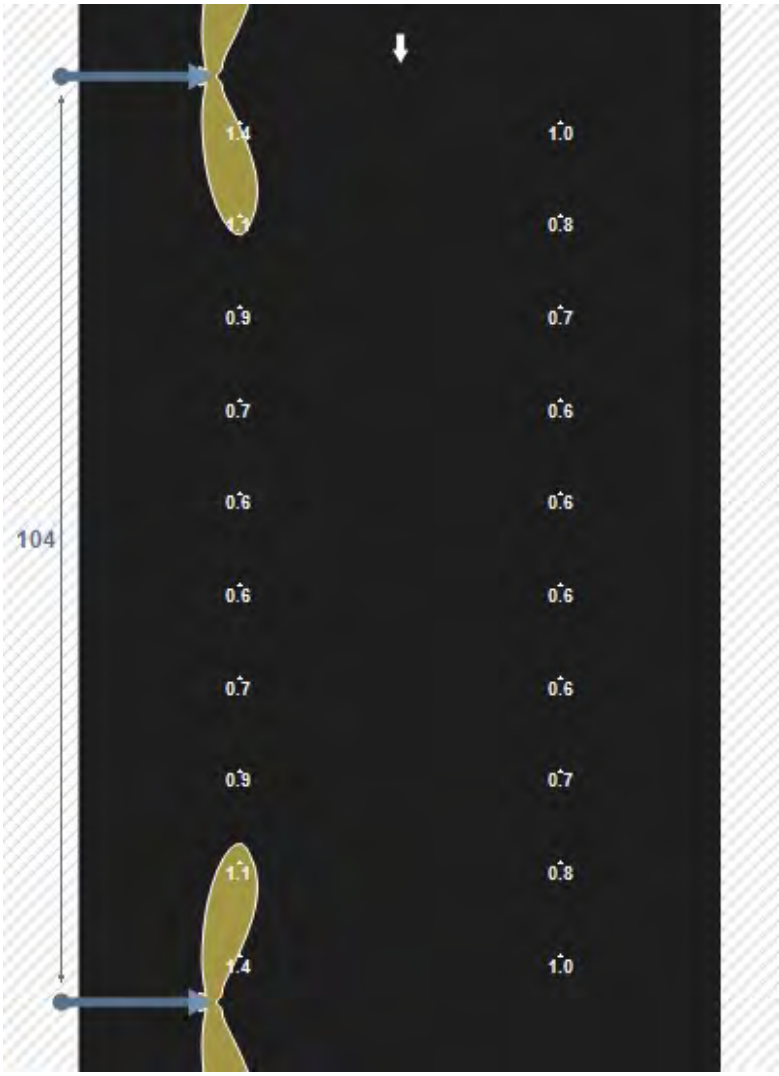
Visual - Roadway Tool

www.Visual-3D.com



Illuminance

Calculation Results

Luminance	Left	Right	
Average:	0.8	--	cd/m²
Max:	1.1	--	cd/m²
Min	0.6	--	cd/m²
Ave/Min:	1.4	--	
Max/Min:	2	--	
Lv Ratio:	0.2	--	
STV:	1.5	--	

Illuminance	Left	Right	
Average:	0.9	--	fc
Max:	1.4	--	fc
Min	0.6	--	fc
Ave/Min:	1.4	--	
Max/Min:	2.2	--	

Sidewalk	Left	Right	
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

Bikelane			
Average:	--	--	fc
Min	--	--	fc
Ave/Min:	--	--	
Ev Min:	--	--	fc

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Round Tapered Steel Upsweep Single Member Mast Arm Pole with Single or Twin Mounting Arms is a special purpose light pole to provide up to 40-foot mounting heights and 8-foot reach for Roadway lighting applications. This pole provides a robust yet cost effective solution for mounting Roadway luminaires.

CONSTRUCTION — **Pole Shaft:** The pole shaft is of 11-gauge (0.1196") or 7-gauge (0.1793") with a uniform wall thickness and is made of a weldable-grade (ASTM A-595 Grade A), hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi. Shaft is one-piece construction with a full-length longitudinal high-frequency electric resistance weld and is round in cross-section having a uniform linear taper of .14" per foot.

Pole Top: A removable pole cap is provided with hardware.

Handhole: A reinforced handhole with grounding provision is provided at 18" from the base end of the pole assembly. Every handhole includes a cover and cover attachment hardware. 3" x 5" rectangular handhole is provided on pole with 5.9" shaft side dimension. Pole shaft with dimensions larger than 5.9" are provided with a 4" x 6.5" oval shaped handhole.

Base Cover: Bolt cover caps are standard with each pole assembly. An optional two-piece ABS plastic full base cover is available. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel or heavy duty two-piece cast aluminum full base cover. All bolt cover caps and optional base covers are finished to match pole.

Anchor Base/ Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" blend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel rod having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

HARDWARE – All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel, or stainless steel.

FINISH – Standard finishes include Dark Bronze, White, Black, Medium Bronze, Natural Aluminum, or Hot-dipped Galvanized finish. Classic colors include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue. Architectural Colors and Special Finishes are available by quote and include but are not limited to Hot-dipped Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes.

ARM CONSTRUCTION – Body is 2-3/8" O.D. (2" NPS, Schedule 40) galvanized steel tube (with a minimum yield strength of 36,000 psi) provides 3' net rise. Welding follows AWS standards. Arms are galvanized after fabrication.

ARM HARDWARE – Mast Arm single bolt mounting plate is designed to be bolted to the shaft with a 1/2" steel bolt.

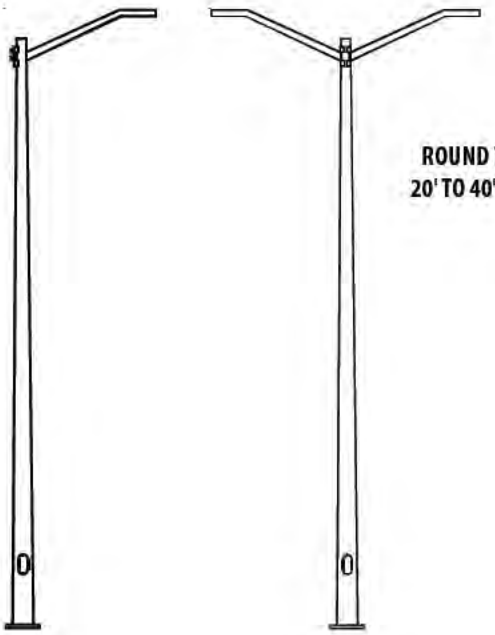
ARM FINISH – Finish to match pole shaft.

BUY AMERICAN – Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Anchor Base Poles/Mounting Arm Combo



RTSU

ROUND TAPERED STEEL POLE
20' TO 40' FIXTURE MOUNTING

Buy American

RTSU Round Tapered Steel Poles with Single or Twin Mounting Arms

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: RTSU 25 5-9B SMP US4 GALV VD

RTSU					
Series	**Nominal fixture mounting height**	**Nominal shaft base size/wall thickness[1]**	**Mounting / Arm length**	**Options**	**Finish[8]**
RTSU	(See technical information table for complete ordering information.) 20'-50' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.)	(See technical information table for complete ordering information.) 5-9B (.120") 6-6B (.120") 7-3B (.120") 9-0B (.120")	SMP US4 Single-bolt Simplex mount, 4' arm length SMP US6 Single-bolt Simplex mount, 6' arm length SMP US8 Single-bolt Simplex mount, 8' arm length SMP 2US4 Single-bolt Simplex mount, 4' arm length SMP 2US6 Single-bolt Simplex mount, 6' arm length SMP 2US8 Single-bolt Simplex mount, 8' arm length	Shipped installed L/AB Less anchor bolts (Include when anchor bolts are not needed) VD Vibration damper TP Tamper resistant handhole cover fasteners HAxy Horizontal arm bracket (1 fixture)[2,3] FDLxy Festoon outlet less electrical[2] CPL12/xy 1/2" coupling[2] CPL34/xy 3/4" coupling[2] CPL1/xy 1" coupling[2] NPL12/xy 1/2" threaded nipple[2] NPL34/xy 3/4" threaded nipple[2] NPL1/xy 1" threaded nipple[2] EHHxy Extra handhole[2,4] MAEX Match existiing[5] BAA Buy America(n) Act Compliant IC Interior coating[7] UL UL listed with label (Includes NEC compliant cover) NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) Shipped separately (replacement kit available) (blank) BLTC Bolt caps FBC Full base cover (spun aluminum) (blank) TC Top cap (with drill-mount poles) (blank) HHC Handhole cover	Standard colors DDB Dark bronze DWH White DBL Black DMB Medium bronze DNA Natural aluminum GALV Galvanized finish Classic colors DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue Architectural Colors and Special Finishes[8] Duranodic Anodize, Paint over Duranodic Anodize, RAL Colors, Custom Colors and Extended Warranty Finishes available.

NOTES:
1. Wall thickness will be signified with a "B" (11 Gauge) in nomenclature. "B" - 0.120"
2. Specify location and orientation when ordering option.
   For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
   Example: 5ft = 5 and 20ft 3in = 20-3
   For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.
   Example: 1/2" coupling at 5'8", orientation C = CPL12/5-8C
3. Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise.
4. Combination of tenon-top and drill mount includes extra handhole.
5. Must add original order number of existing pole(s).
6. Use when mill certifications are required.
7. Provides enhanced corrosion resistance.
8. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

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RTSU Round Tapered Steel Poles with Single or Twin Mounting Arms

TECHNICAL INFORMATION — EPA (ft²) WITH 3-SECOND GUST PER AASHTO 2013																			
Series	Mounting Height including 3' net rise of mast arm (ft)*	Shaft Base Size	Number of Arms	Arm Length (ft)	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight	Approx. ship weight (lbs.)
RTSU	20	5-9B	1	4	6	150	6	150	5.5	138	5	125	4.5	113	4	100	3.5	88	138
RTSU	20	5-9B	1	6	4.5	113	4.5	113	4	100	3.5	88	3	75	2.5	63	2.5	63	144
RTSU	20	5-9B	1	8	3.5	88	3.5	88	3	75	2.5	63	2	50	2	50	1.5	38	151
RTSU	25	5-9B	1	4	6	125	6	125	5.5	125	5	125	4	100	3.5	88	3	75	159
RTSU	25	5-9B	1	6	4.5	88	4.5	88	4	88	3.5	88	3	75	2.5	63	2	50	165
RTSU	25	5-9B	1	8	3.5	63	3.5	63	3	63	2.5	63	2	50	1.5	38	1.5	38	172
RTSU	30	6-6B	1	4	6	100	6	100	6	100	5	100	4	100	3.5	88	3	75	202
RTSU	30	6-6B	1	6	6	75	5.5	75	4.5	75	3.5	75	3	75	2.5	63	2	50	208
RTSU	30	6-6B	1	8	5.5	50	4	50	3	50	2.5	50	2	50	1.5	38	1.5	38	215
RTSU	35	7-3B	1	4	6	113	6	113	5.5	113	4.5	113	4	100	3.5	88	3	75	250
RTSU	35	7-3B	1	6	6	75	5	75	4	75	3	75	2.5	63	2.5	63	2	50	256
RTSU	35	7-3B	1	8	5	50	4	50	3	50	2.5	50	2	50	1.5	38	1.5	38	263
RTSU	40	9-0B	1	4	6	150	6	150	5	125	4.5	113	4	100	3.5	88	3	75	352
RTSU	40	9-0B	1	6	4.5	113	4.5	113	3.5	88	3	75	2.5	63	2	50	2	50	358
RTSU	40	9-0B	1	8	3.5	88	3	75	2.5	63	2	50	2	50	1.5	38	1	25	365
RTSU	20	5-9B	2	4	6	150	6	150	5.5	138	5	125	4	100	3.5	88	3	75	159
RTSU	20	5-9B	2	6	4.5	113	4.5	113	4	100	3.5	88	3	75	2.5	63	2.5	63	171
RTSU	20	5-9B	2	8	3.5	88	3.5	88	3	75	2.5	63	2	50	2	50	1.5	38	185
RTSU	25	5-9B	2	4	6	150	5	125	4	100	3	75	2.5	63	2	50	1.5	38	180
RTSU	25	5-9B	2	6	4.5	113	4.5	113	3.5	88	3	75	2	50	1.5	38	1	25	192
RTSU	25	5-9B	2	8	3.5	88	3.5	88	3	75	2.5	63	2	50	1	25	0.5	13	206
RTSU	30	6-6B	2	4	6	150	4.5	113	3.5	88	2.5	63	2	50	1.5	38	1	25	223
RTSU	30	6-6B	2	6	4.5	113	4	100	3	75	2.5	63	1.5	38	1	25	0.5	13	235
RTSU	30	6-6B	2	8	3.5	88	3.5	88	3	75	2	50	1.5	38	1	25	0.5	13	249
RTSU	35	7-3B	2	4	6	150	4.5	113	3.5	88	2.5	63	2	50	1.5	38	1	25	271
RTSU	35	7-3B	2	6	4.5	113	4	100	3	75	2.5	63	1.5	38	1	25	0.5	13	283
RTSU	35	7-3B	2	8	3.5	88	3	75	2.5	63	2	50	1.5	38	0.5	13	0.5	13	297
RTSU	40	9-0B	2	4	6	150	5	125	4	100	3	75	2.5	63	2	50	1.5	38	373
RTSU	40	9-0B	2	6	4.5	113	4.5	113	3.5	88	3	75	2.5	63	1.5	38	1.5	38	385
RTSU	40	9-0B	2	8	3.5	88	3	75	2.5	63	2	50	2	50	1.5	38	1	25	399

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under commercial criteria (see table below).

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TECHNICAL INFORMATION						
Catalog Number	Nominal Mount Ht. including 3' net rise of mast arm (ft)*	Mtg. Arm length (ft)	Pole Base Diameter (.14 taper rate)	Wall Thickness (in)	Bolt Size (in. x in. x in.)	Approximate Ship (lbs.)
RTSU 20 5-9B SMP US4	20'	4'	5.9"	0.120	1 x 36 x 4	140
RTSU 20 5-9B SMP US6	20'	6'	5.9"	0.120	1 x 36 x 4	140
RTSU 20 5-9B SMP US8	20'	8'	5.9"	0.120	1 x 36 x 4	140
RTSU 25 5-9B SMP US4	25'	4'	5.9"	0.120	1 x 36 x 4	205
RTSU 25 5-9B SMP US6	25'	6'	5.9"	0.120	1 x 36 x 4	205
RTSU 25 5-9B SMP US8	25'	8'	5.9"	0.120	1 x 36 x 4	205
RTSU 30 6-6B SMP US4	30'	4'	6.5"	0.120	1 x 36 x 4	250
RTSU 30 6-6B SMP US6	30'	6'	6.5"	0.120	1 x 36 x 4	250
RTSU 30 6-6B SMP US8	30'	8'	6.5"	0.120	1 x 36 x 4	250
RTSU 35 7-3B SMP US4	35'	4'	7.3"	0.120	1 x 36 x 4	300
RTSU 35 7-3B SMP US6	35'	6'	7.3"	0.120	1 x 36 x 4	300
RTSU 35 7-3B SMP US8	35'	8'	7.3"	0.120	1 x 36 x 4	300
RTSU 40 9-08 SMP US4	40'	4'	9"	0.120	1 x 36 x 4	405
RTSU 40 9-08 SMP US6	40'	6'	9"	0.120	1 x 36 x 4	405
RTSU 40 9-08 SMP US8	40'	8'	9"	0.120	1 x 36 x 4	405
RTSU 20 5-9B SMP 2US4	20'	4'	5.9"	0.120	1 x 36 x 4	240
RTSU 20 5-9B SMP 2US6	20'	6'	5.9"	0.120	1 x 36 x 4	240
RTSU 20 5-9B SMP 2US8	20'	8'	5.9"	0.120	1 x 36 x 4	240
RTSU 25 5-9B SMP 2US4	25'	4'	5.9"	0.120	1 x 36 x 4	255
RTSU 25 5-9B SMP 2US6	25'	6'	5.9"	0.120	1 x 36 x 4	255
RTSU 25 5-9B SMP 2US8	25'	8'	5.9"	0.120	1 x 36 x 4	255
RTSU 30 6-6B SMP 2US4	30'	4'	6.5"	0.120	1 x 36 x 4	300
RTSU 30 6-6B SMP 2US6	30'	6'	6.5"	0.120	1 x 36 x 4	300
RTSU 30 6-6B SMP 2US8	30'	8'	6.5"	0.120	1 x 36 x 4	300
RTSU 35 7-3B SMP 2US4	35'	4'	7.3"	0.120	1 x 36 x 4	350
RTSU 35 7-3B SMP 2US6	35'	6'	7.3"	0.120	1 x 36 x 4	350
RTSU 35 7-3B SMP 2US8	35'	8'	7.3"	0.120	1 x 36 x 4	350
RTSU 40 9-0B SMP 2US4	40'	4'	9"	0.120	1 x 36 x 4	455
RTSU 40 9-0B SMP 2US6	40'	6'	9"	0.120	1 x 36 x 4	455
RTSU 40 9-0B SMP 2US8	40'	8'	9"	0.120	1 x 36 x 4	455

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

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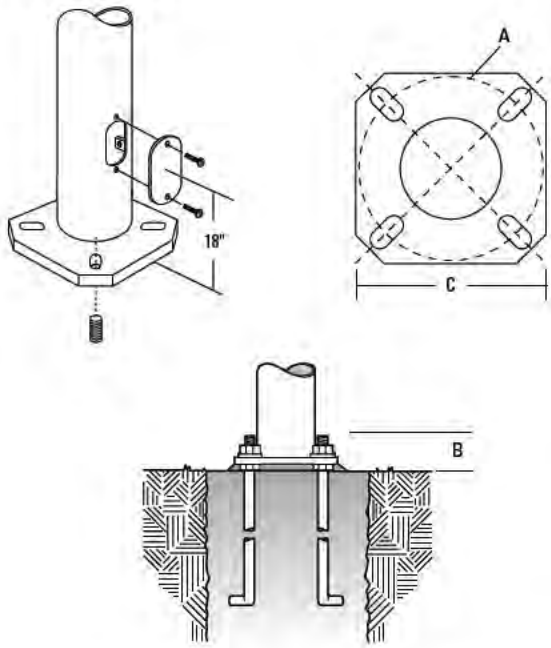
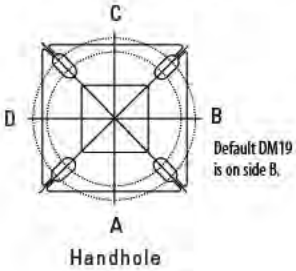
BASE DETAIL



POLE DATA					
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description
5.9"	9"	3.50" - 4.25"	10"	ABTEMPLATE PJ50075	AB36-0
6.5"	9.5"	3.50" - 4.25"	10.5"	ABTEMPLATE PJ50074	AB36-0
7.0"	10"	3.50" - 4.25"	10.875"	ABTEMPLATE PJ50077	AB36-0
7.3"	10.5"	3.50" - 4.25"	11.25"	ABTEMPLATE PJ50133	AB36-0
7.5"	10.5"	3.50" - 4.25"	11.25"	ABTEMPLATE PJ50133	AB36-0
8.5"	11.5"	3.75" - 4.50"	12"	ABTEMPLATE PJ50082	AB36-0
9.0"	12.5"	3.75" - 4.50"	12.375"	ABTEMPLATE PJ50085	AB36-0
9.5"	13"	4.00" - 4.50"	13"	ABTEMPLATE PJ50134	AB36-0
10.0"	13.5"	4.00" - 4.50"	14"	ABTEMPLATE PJ50135	AB36-0
10.5"	14"	4.50" - 5.00"	14.5"	ABTEMPLATE PJ50136	AB42-0

HANDHOLE ORIENTATION



IMPORTANT INSTALLATION NOTES:

- **Do not** erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

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LITHONIA LIGHTING®

Catalog Number	
Notes	Type

FEATURES & SPECIFICATIONS

INTENDED USE

For metal, fiberglass or concrete poles.

CONSTRUCTION

Aluminum: Body is schedule 10 (T14) or schedule 40 (T20) aluminum pipe 6063-T6. Welding follows industry standards best practices. Arms are pressure-washed after fabrication.

Steel: Body is galvanized steel tube (per ASTM A-123) constructed from A500 Grade B steel. Welding follows industry standards best practices. Arms are galvanized after fabrication.

Must specify finish. Optional polyester powder and red primer paint finishes available.

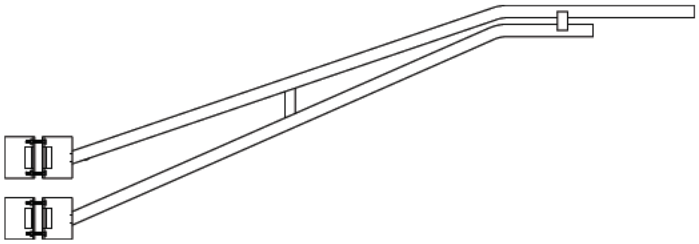
INSTALLATION

Mounting hardware included.

Truss Arm

AMACT/SMACT

ALUMINUM (AMACT) OR STEEL (SMACT)
TRUSS ARM



(See next page for dimensions and drawings.)

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: AMACT T20 US8 SQR5 SA

Series	Pipe size	Arm length	Pole type/size[2]	Finish[3]
AMACT	T20 2-3/8" O.D. (2" NPS)	US4 4' arm length	RNDx Round (x = inches)	Standard colors
SMACT		US6 6' arm length	SQRx Square (x = inches)	DDB Dark bronze
		US8 8' arm length	OCTx Octagonal (x = inches from flat to opposite flat)	DWH White
		US10 10' arm length		DBL Black
		US12 12' arm length		DNA Natural aluminum
		US14 14' arm length		SA Satin aluminum (AMACT only)
		US15 15' arm length		GALV Galvanized steel (SMACT only)
		US16 16' arm length[1]		Primer finish
		US18 18' arm length[1]		DPRM Red primer
		US20 20' arm length[1]		Architectural colors (powder finish)[3]

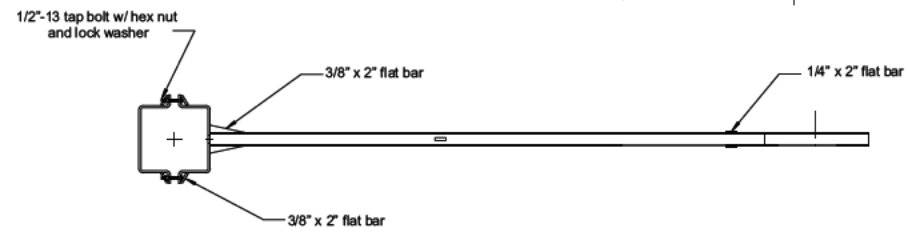
NOTES:

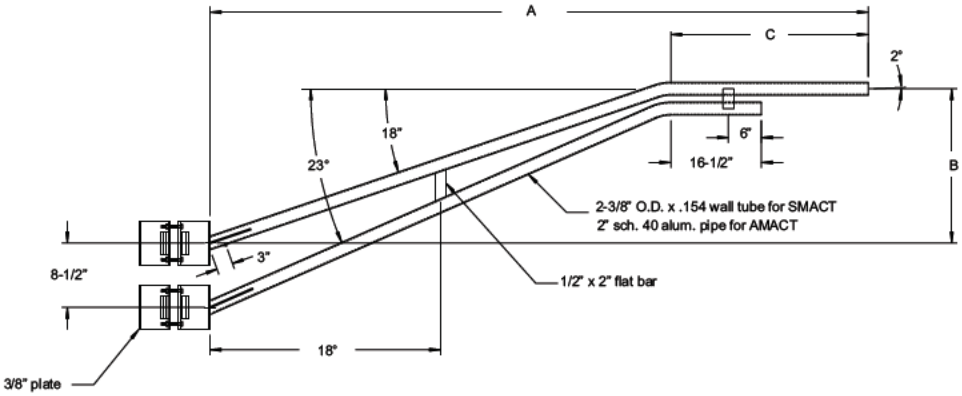
1 Not available with AMACT.

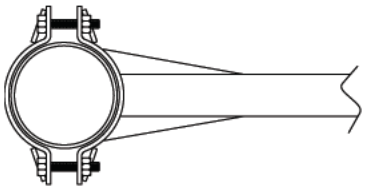
2 Required. Specify pole shaft shape and diameter (in inches) at mounting point.

3 Finish must be specified. Additional colors available; see www.lithonia.com/archcolors or the Architectural Colors brochure (Form No. 794.3).

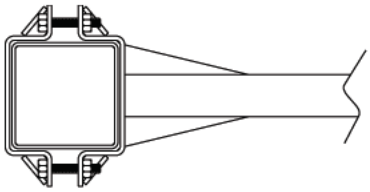
AMACT & SMACT Truss Arm; Metal, Fiberglass or Concrete Poles



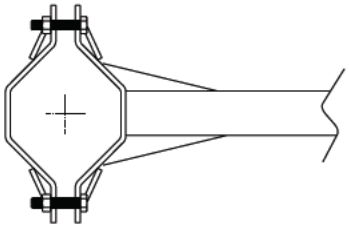




Round pole mtg. detail



Square pole mtg. detail



Octagonal pole mtg. detail

AMACT/SMACT (Truss Arm)

Lithonia Lighting Catalog Number	Nominal arm length (ft)	Dimensions (inches)			Bracket weight (lbs)	Max. fixture EPA ft² @ 80 mph w/1 3 gusts	Max. fixture weight (lbs)	ANSI C136.3 (1995) class rating @ 80 mph
		A	B	C				
AMACT T20 US6	6'	72"	13"	36"	20	2.4	50	C
AMACT T20 US8	8'	96"	21"	36"	25	2 4	50	C
AMACT T20 US10	10'	120"	28"	36"	30	2.4	80	-
AMACT T20 US12	12'	144"	36"	36"	35	2 4	80	-
AMACT T20 US14	14'	168"	44"	36"	40	2.4	80	-
AMACT T20 US15	15'	180"	48"	36"	45	2 4	80	-
SMACT T20 US6	6'	72"	13"	36"	58	2 4	80	E
SMACT T20 US8	8'	96"	21"	36"	72	2.4	80	E
SMACT T20 US10	10'	120"	28"	36"	85	2 4	80	E
SMACT T20 US12	12'	144"	36"	36"	99	2.4	80	E
SMACT T20 US14	14'	168"	44"	36"	112	2 4	80	E
SMACT T20 US15	15'	180"	48"	36"	122	2.4	80	E
SMACT T20 US16	16'	186"	52"	36"	171	2 4	80	-
SMACT T20 US18	18'	210"	60"	36"	188	2.4	80	-
SMACT T20 US20	20'	234"	68"	36"	205	2.4	80	-

IMPORTANT:

- These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

CAUTION:

- The arms described herein are designed for applications in areas of normal winds. Consult the factory prior to the design of systems to be mounted on structures such as bridges or buildings, or areas known to have abnormal winds such as airports or coastal areas. Failure to consider these factors in the system design could result in the failure of the pole or mast arm, and consequently personal injury or property damage.

LITHONIA LIGHTING®

An AcuityBrands Company

Lithonia Lighting
Outdoor
One Lithonia Way, Conyers, GA 30012
Phone: 770-922-9000 Fax: 770-918-1209
www.lithonia.com

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Exhibit E

Underground Distribution Manual

PUERTO RICO ELECTRIC POWER AUTHORITY

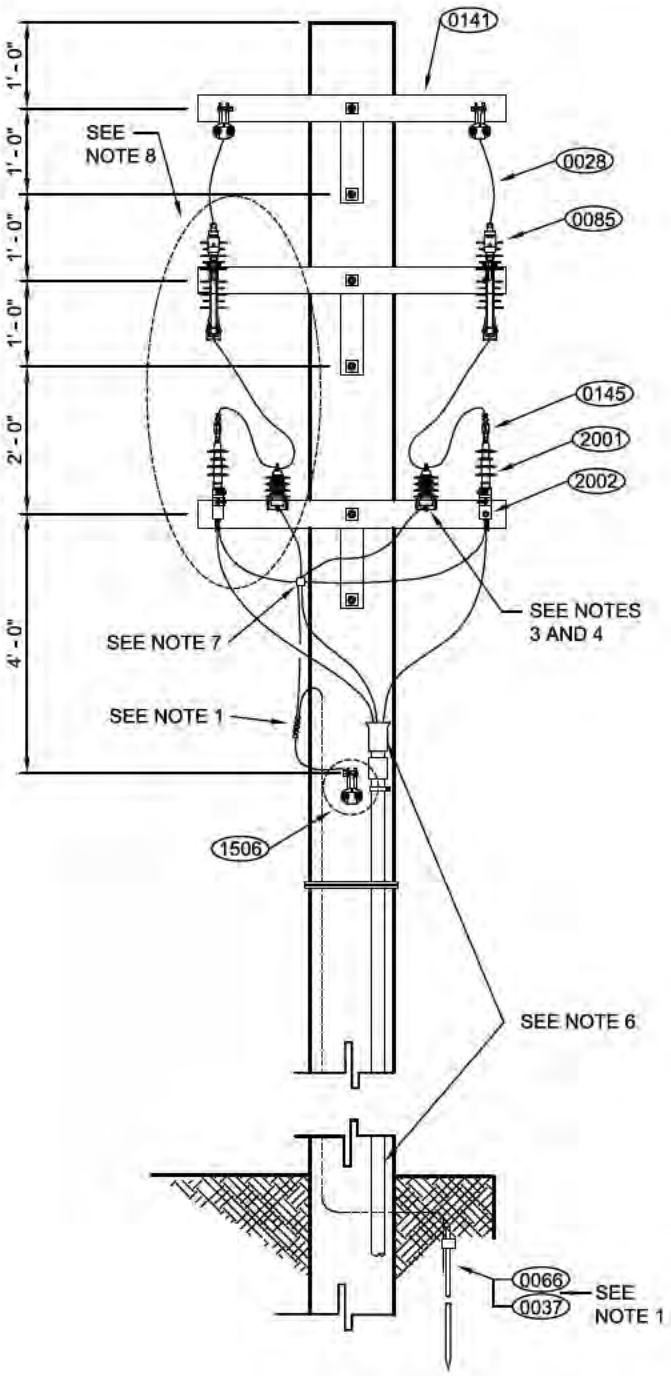
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

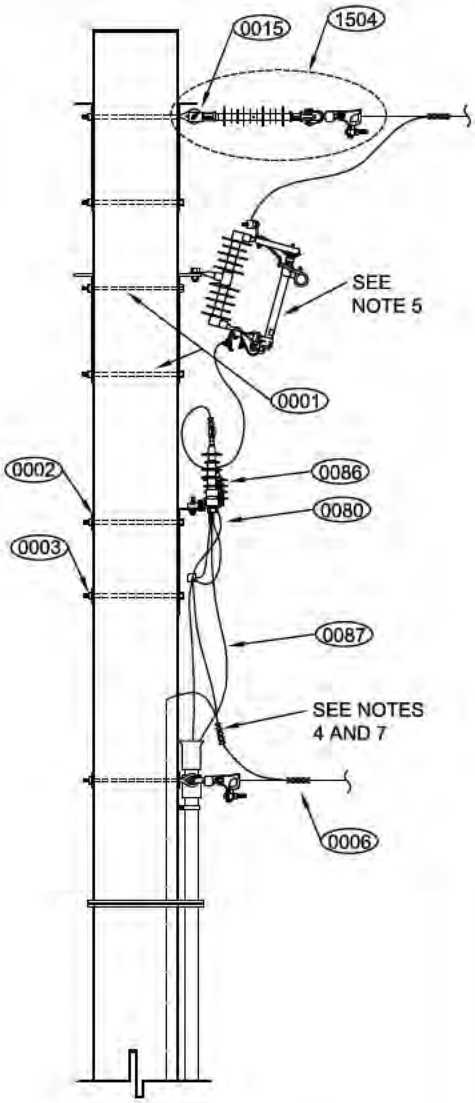
TITLE:

UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
TWO-PHASE AND NEUTRAL

STANDARD NO. URD-2A REV 0
PAGE 1 OF 2 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED



ELEVATION VIEW



PROFILE VIEW

NOTES:

1 - THE NEUTRAL CONDUCTOR MUST BE EFFECTIVELY BONDED TO TO EARTH GROUND CONNECTION SYSTEM (SEE STANDARD M2-1).
2 - ALL MINIMUM VERTICAL CLEARANCES ARE BASED UPON NESC RULE 235C.
3 - REFER TO M-SRG-ARR FOR ARRESTER DETAILS.
4 - REFER TO STANDARD M2-2 FOR POLE BONDING SPECIFICATIONS.
5 - REFER TO STANDARD M-FUS FOR CUTOUT SPECIFICATIONS.
6 - FOR DETAILS OF THE RISER CONDUIT, AND THE RISER CONCRETE BASE SUPPORT, SEE STANDARD URD-4 AND URD-5.
7 - THE UNDERGROUND NEUTRAL MUST BE CONNECTED DIRECTLY TO THE NEUTRAL OF THE LINE.
8 - REFER TO APPENDIX 32 FOR CONNECTION DETAILS FOR LIGHTNING ARRESTERS.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
TWO-PHASE AND NEUTRAL
BILL OF MATERIALS

STANDARD NO. URD-2A REV 0
PAGE 2 OF 2 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED

MATERIALS			
NO.	GENERAL DESCRIPTION	WAREHOUSE ITEM	QTY.
0001	5/8" THROUGH BOLT	VARIES	5
0002	SQUARE WASHER	VARIES	5
0003	5/8" NUTS	VARIES	7
0006	COMPRESSION CONNECTOR	VARIES	10
0028	COPPER CONDUCTOR	VARIES	AS REQ.
0037	GROUND ROD	002-02465	1
0066	GROUND ROD CLAMP	002-13595	1
0080	#2 COPPER CONDUCTOR	006-00833	15'
0085	FUSED CUTOUT	VARIES	2
0086	LIGHTNING ARRESTOR	VARIES	2
0087	UNDERGROUND CONDUCTOR	VARIES	AS REQ.
0141	STEEL CROSSARM	VARIES	3
0145	TWO HOLE TERMINAL LUG	VARIES	2
1504	PRIMARY DEADEND ASSEMBLY	M-DE-CLMP (FIG. B)	2
1506	NEUTRAL DEADEND ASSEMBLY	M-NEU-DE (FIG. A)	1
2001	UNDERGROUND TERMINATION	–	2
2002	TERMINATION SUPPORT	SEE APPENDIX 32	2

PUERTO RICO ELECTRIC POWER AUTHORITY

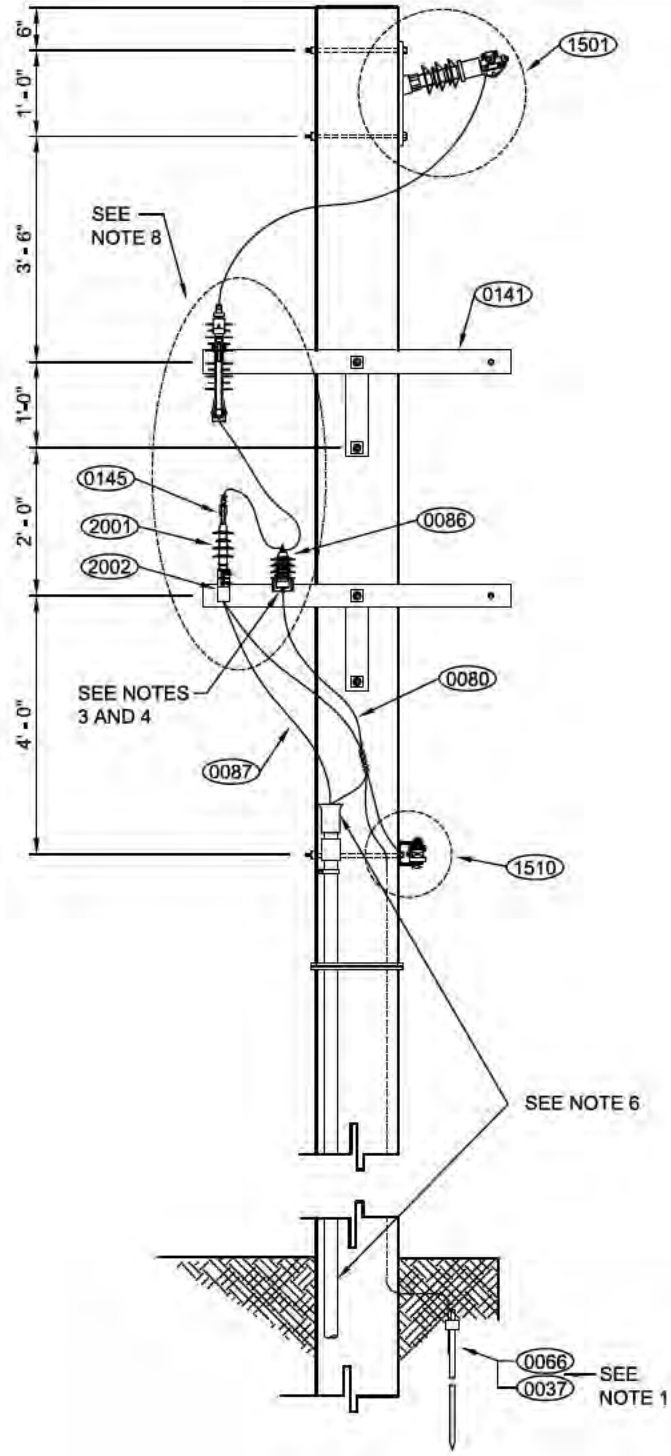
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

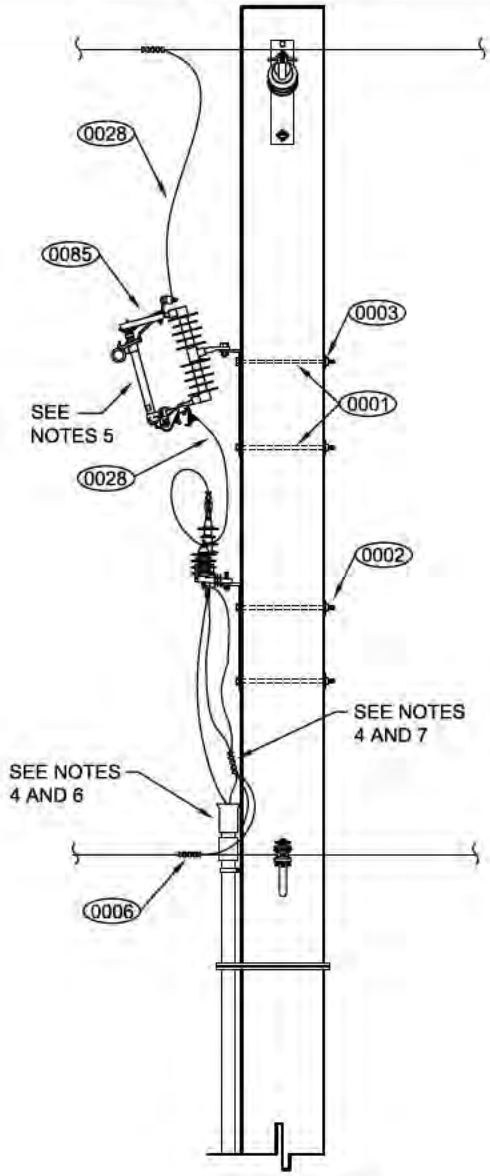
TITLE:

UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
SINGLE-PHASE AND NEUTRAL

STANDARD NO. URD-2 REV 0
PAGE 1 OF 2 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED



ELEVATION VIEW



PROFILE VIEW

NOTES:

1 - THE NEUTRAL CONDUCTOR MUST BE EFFECTIVELY BONDED TO TO EARTH GROUND CONNECTION SYSTEM (SEE STANDARD M2-1).
2 - ALL MINIMUM VERTICAL CLEARANCES ARE BASED UPON NESC RULE 235C.
3 - REFER TO M-SRG-ARR FOR ARRESTER DETAILS.
4 - REFER TO STANDARD M2-2 FOR POLE BONDING SPECIFICATIONS.
5 - REFER TO STANDARD M-FUS FOR CUTOUT SPECIFICATIONS.
6 - FOR DETAILS OF THE RISER CONDUIT, AND THE RISER CONCRETE BASE SUPPORT, SEE STANDARD URD-4 AND URD-5.
7 - THE UNDERGROUND NEUTRAL MUST BE CONNECTED DIRECTLY TO THE NEUTRAL OF THE LINE.
8 - REFER TO APPENDIX 32 FOR CONNECTION DETAILS FOR LIGHTNING ARRESTERS.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
SINGLE-PHASE AND NEUTRAL
BILL OF MATERIALS

STANDARD NO. URD-2 REV 0
PAGE 2 OF 2 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED

MATERIALS			
NO.	GENERAL DESCRIPTION	WAREHOUSE ITEM	QTY.
0001	5/8" THROUGH BOLT	VARIES	4
0002	SQUARE WASHER	VARIES	4
0003	5/8" NUTS	VARIES	7
0006	COMPRESSION CONNECTOR	VARIES	5
0028	COPPER CONDUCTOR	VARIES	AS REQ.
0037	GROUND ROD	002-02465	1
0066	GROUND ROD CLAMP	002-13595	1
0080	#2 COPPER CONDUCTOR	006-00833	10'
0085	FUSED CUTOUT	VARIES	1
0086	LIGHTNING ARRESTOR	VARIES	1
0087	UNDERGROUND CONDUCTOR	VARIES	AS REQ.
0141	STEEL CROSSARM	VARIES	2
0145	TWO HOLE TERMINAL LUG	VARIES	1
1501	SIDE POST INSULATOR ASSEMBLY	M-1-INS (FIG. B)	1
1510	NEUTRAL TANGENT ASSEMBLY	M-NEU-TAN	1
2001	UNDERGROUND TERMINATOR	–	1
2002	TERMINATOR SUPPORT	SEE APPENDIX 32	1

PUERTO RICO ELECTRIC POWER AUTHORITY

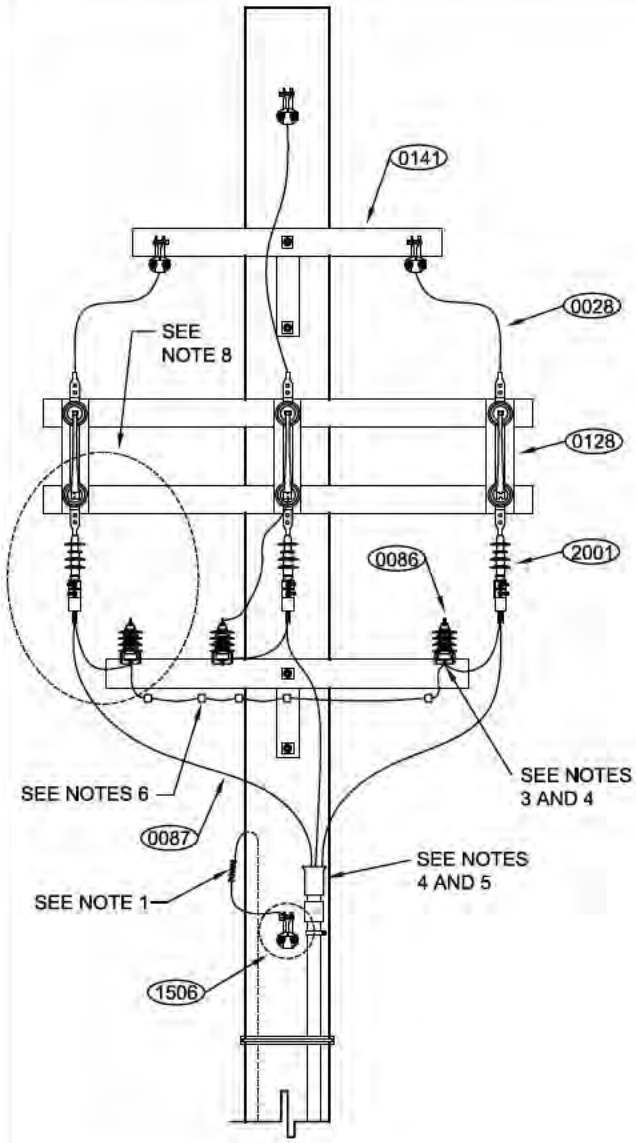
DISTRIBUTION SYSTEM

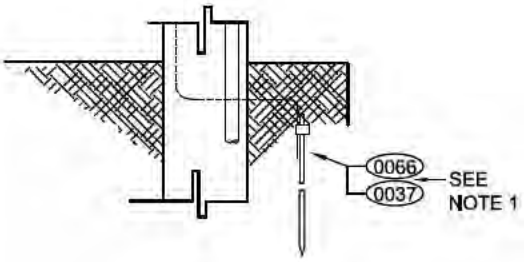
UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

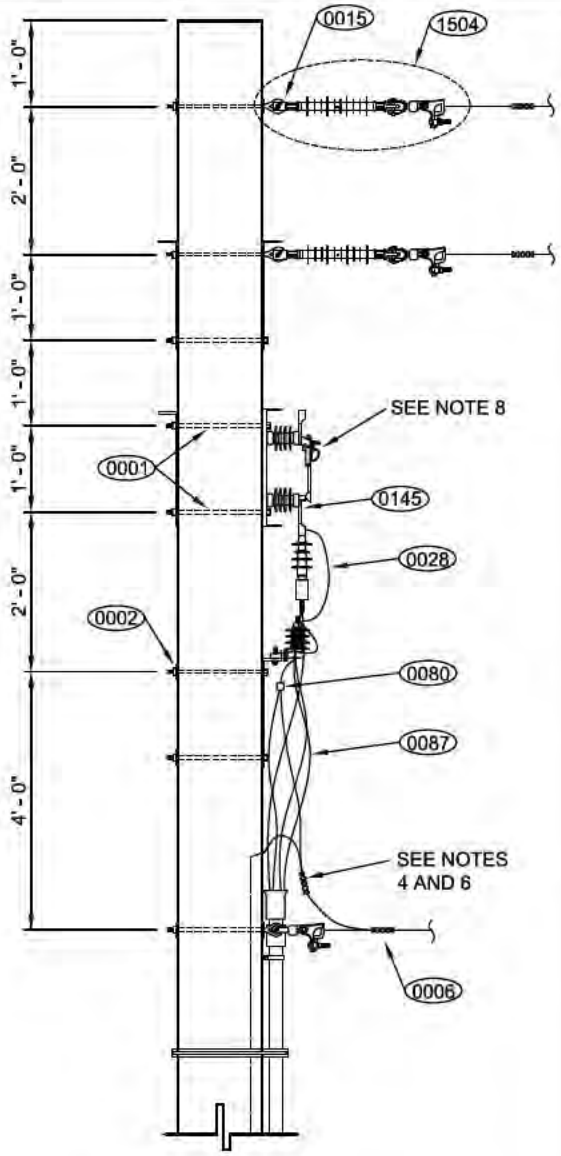
UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
THREE-PHASE AND NEUTRAL WITH DISCONNECT SWITCHES

STANDARD NO. URD-3 REV 0
PAGE 1 OF 2 DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
APPROVED
DIGITIZED





ELEVATION VIEW



PROFILE VIEW

NOTES:

1 - THE NEUTRAL CONDUCTOR MUST BE EFFECTIVELY BONDED TO EARTH GROUND CONNECTION SYSTEM (SEE STANDARD M2-1).
2 - ALL MINIMUM VERTICAL CLEARANCES ARE BASED UPON NESC RULE 235C.
3 - REFER TO M-SRG-ARR FOR ARRESTER DETAILS.
4 - REFER TO STANDARD M2-2 FOR POLE BONDING SPECIFICATIONS.
5 - FOR DETAILS OF THE RISER CONDUIT, SEE STANDARD URD-4 AND URD-5.
6 - THE UNDERGROUND NEUTRAL MUST BE CONNECTED DIRECTLY TO THE NEUTRAL OF THE LINE.
7 - COPPER CONDUCTOR EQUIVALENT TO THAT OF THE SYSTEM HAS TO BE USED.
8 - FOR THIS APPLICATION, 600A AND 900A RATED SWITCHES WILL BE ACCEPTED.
9 - REFER TO APPENDIX 32 FOR CONNECTION DETAILS FOR LIGHTNING ARRESTERS.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
THREE-PHASE AND NEUTRAL WITH DISCONNECT SWITCHES
BILL OF MATERIALS

STANDARD NO. URD-3 REV 0
PAGE 2 OF 2 DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
APPROVED
DIGITIZED

MATERIALS			
NO.	GENERAL DESCRIPTION	WAREHOUSE ITEM	QTY.
0001	⅝" THROUGH BOLT	VARIES	4
0002	SQUARE WASHER	VARIES	4
0006	COMPRESSION CONNECTOR	VARIES	11
0028	COPPER CONDUCTOR	VARIES	AS REQ.
0037	GROUND ROD	002-02465	1
0066	GROUND ROD CLAMP	002-13595	1
0080	#2 COPPER CONDUCTOR	006-00833	20'
0086	LIGHTNING ARRESTER	VARIES	3
0087	UNDERGROUND CONDUCTOR	VARIES	AS REQ.
0128	DISCONNECT SWITCHES	032-02785	3
0141	STEEL CROSSARM	VARIES	3
0145	TWO HOLE TERMINAL LUG	VARIES	9
1504	PRIMARY DEADEND ASSEMBLY	M-DE-CLMP (FIG. B)	3
1506	NEUTRAL DEADEND ASSEMBLY	M-SEC-DE (FIG. A)	1
2001	UNDERGROUND TERMINATOR	--	3
2002	TERMINATION SUPPORT (IF NEEDED)	SEE APPENDIX 32	3

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
THREE-PHASE AND NEUTRAL WITH CUTOUT FUSES

STANDARD NO. URD-3A REV 0
PAGE 1 OF 2 DATE -
REVIEWED -
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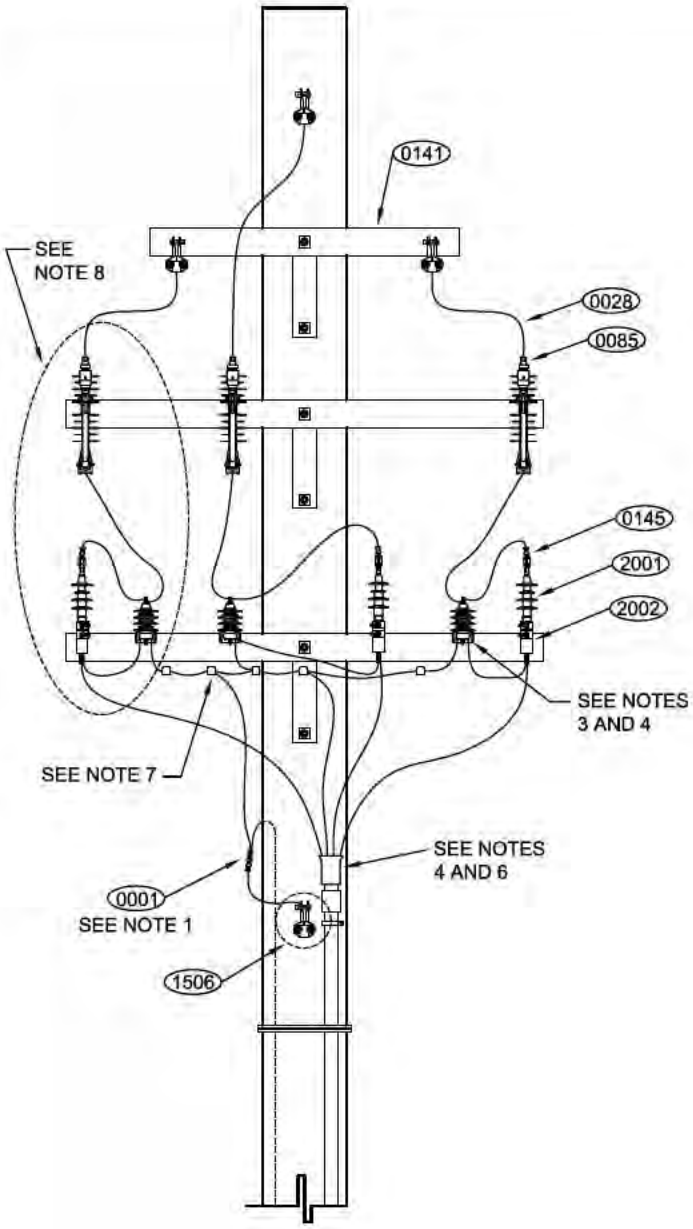
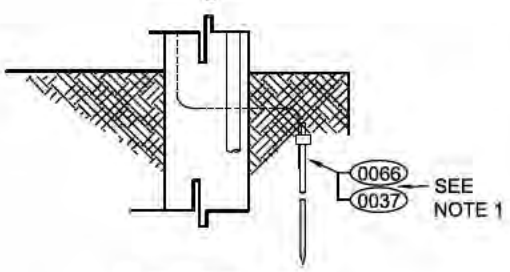
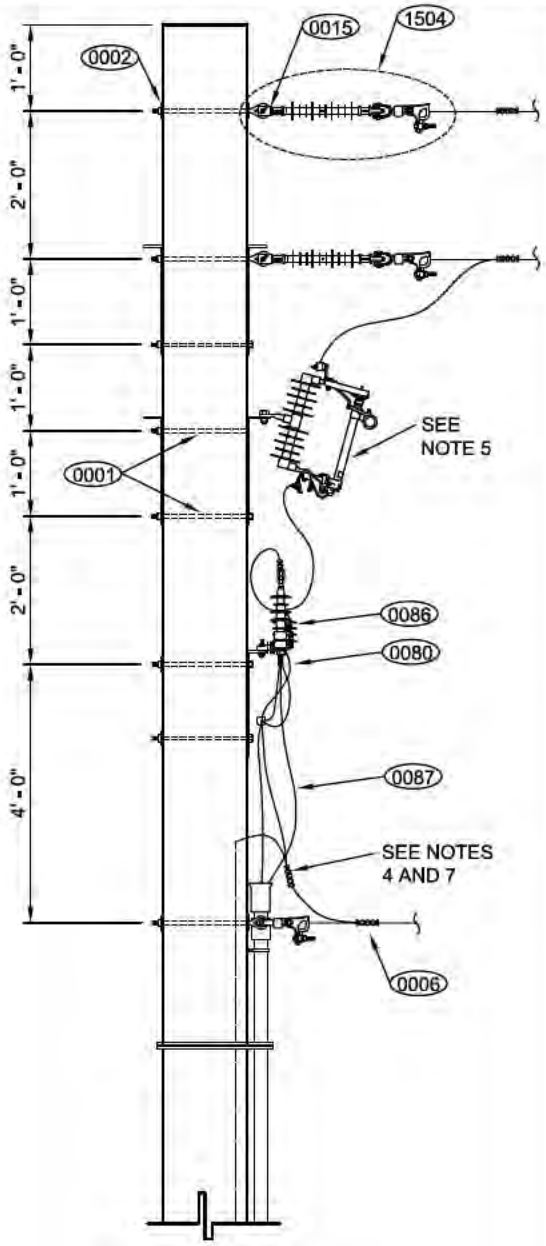
RECOMMENDED
APPROVED
DIGITIZED





ELEVATION VIEW



PROFILE VIEW

NOTES:

1 - THE NEUTRAL CONDUCTOR MUST BE EFFECTIVELY BONDED TO EARTH GROUND CONNECTION SYSTEM (SEE STANDARD M2-1).
2 - ALL MINIMUM VERTICAL CLEARANCES ARE BASED UPON NESC RULE 235C.
3 - REFER TO M-SRG-ARR FOR ARRESTER DETAILS.
4 - REFER TO STANDARD M2-2 FOR POLE BONDING SPECIFICATIONS.
5 - REFER TO STANDARD M-FUS FOR CUTOUT SPECIFICATIONS.
6 - FOR DETAILS OF THE RISER CONDUIT, SEE STANDARD URD-4 AND URD-5.
7 - THE UNDERGROUND NEUTRAL MUST BE CONNECTED DIRECTLY TO THE NEUTRAL OF THE LINE.
8 - REFER TO APPENDIX 32 FOR CONNECTION DETAILS FOR LIGHTNING ARRESTERS.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

UNDERGROUND CABLE CONNECTION TO OVERHEAD SYSTEM
THREE-PHASE AND NEUTRAL WITH CUTOUT FUSES
BILL OF MATERIALS

STANDARD NO. URD-3A REV 0
PAGE 2 OF 2 DATE –
REVIEWED –
SUBMITTED –
RECOMMENDED
APPROVED
DIGITIZED

MATERIALS

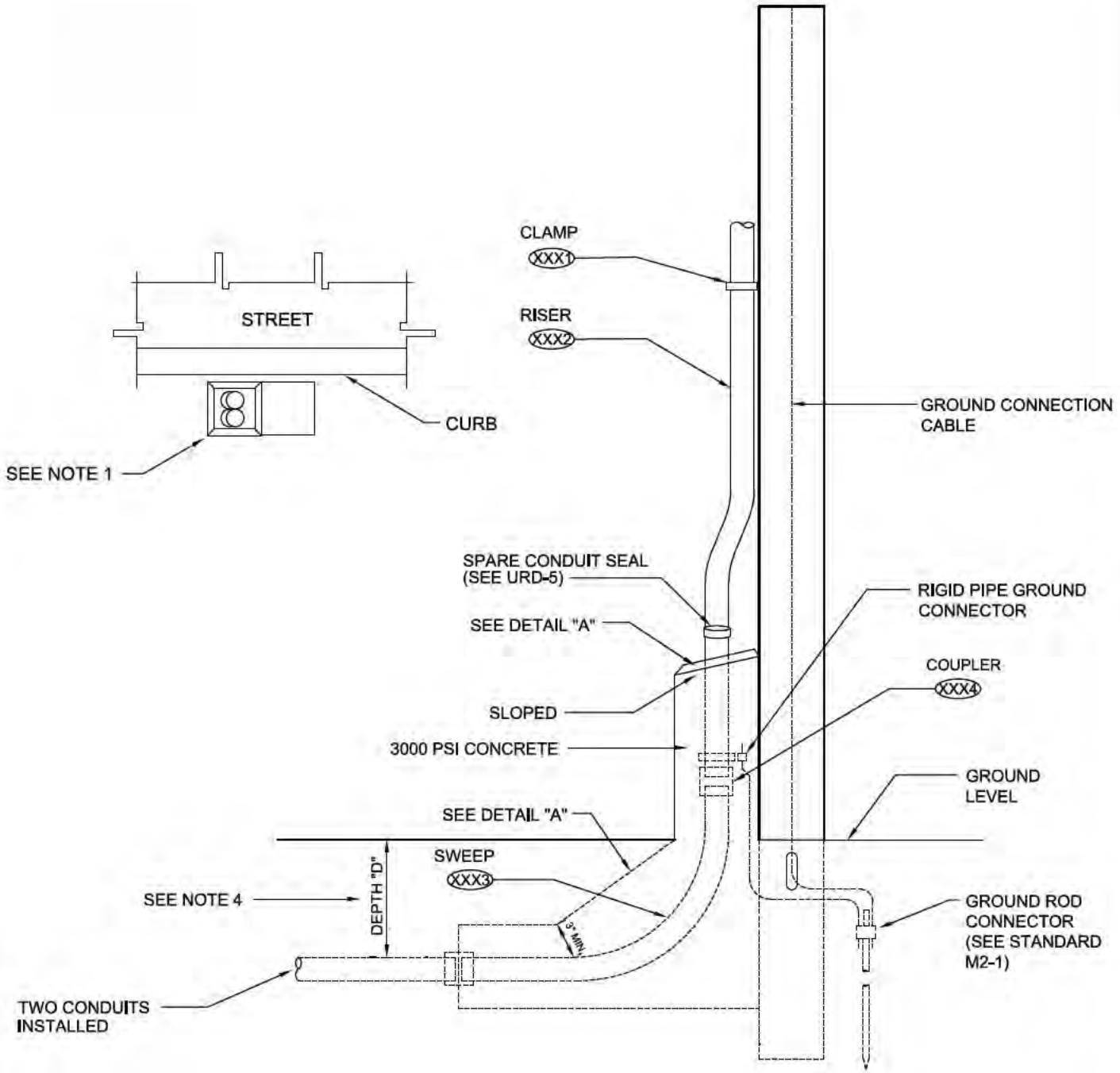
NO.	GENERAL DESCRIPTION	WAREHOUSE ITEM	QTY.
0001	⅝" THROUGH BOLT	VARIES	4
0002	SQUARE WASHER	VARIES	4
0006	COMPRESSION CONNECTOR	VARIES	11
0028	COPPER CONDUCTOR	VARIES	AS REQ.
0037	GROUND ROD	002-02465	1
0066	GROUND ROD CLAMP	002-13595	1
0080	#2 COPPER CONDUCTOR	006-00833	20'
0085	FUSED CUTOUT	VARIES	3
0086	LIGHTNING ARRESTOR	VARIES	3
0087	UNDERGROUND CONDUCTOR	VARIES	AS REQ.
0141	STEEL CROSSARM	VARIES	2
0145	TWO HOLE TERMINAL LUG	VARIES	3
1504	PRIMARY DEADEND ASSEMBLY	M-DE-CLMP (FIG. B)	3
1506	NEUTRAL DEADEND ASSEMBLY	M-SEC-DE (FIG. A)	1
2001	UNDERGROUND TERMINATION	–	3
2002	TERMINATION SUPPORT	–	3

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-4 REV 0
PRIMARY AND SECONDARY RISER CONDUIT DETAIL	PAGE 1 OF 3 DATE
	REVIEWED
	SUBMITTED
	RECOMMENDED
	APPROVED
	DIGITIZED



PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

PRIMARY AND SECONDARY RISER CONDUIT DETAIL
BILL OF MATERIALS

STANDARD NO. URD-4 REV 0
PAGE 3 OF 3 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED

MATERIALS			
NO.	GENERAL DESCRIPTION	WAREHOUSE ITEM	QTY.
XXX1	RISER CLAMP	XXX-XXXXX	AS REQ.
XXX2	RISER	XXX-XXXXX	1
XXX3	CONDUIT SWEEP	XXX-XXXXX	2
XXX4	CONDUIT COUPLER	XXX-XXXXX	2
0037	GROUND ROD	002-02465	1
0066	GROUND CONNECTOR	002-13595	1
0080	TINNED COPPER CONDUCTOR #2	XXX-XXXXX	VARIES

PUERTO RICO ELECTRIC POWER AUTHORITY

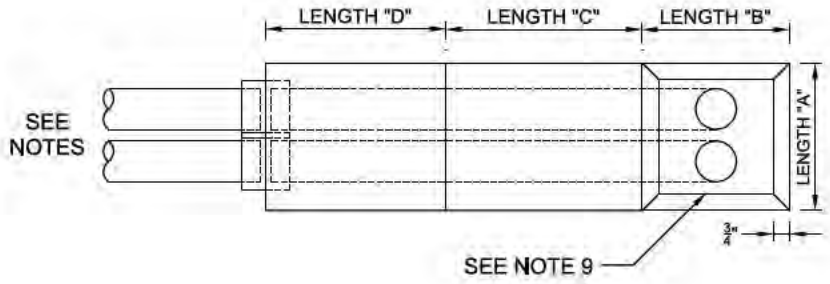
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

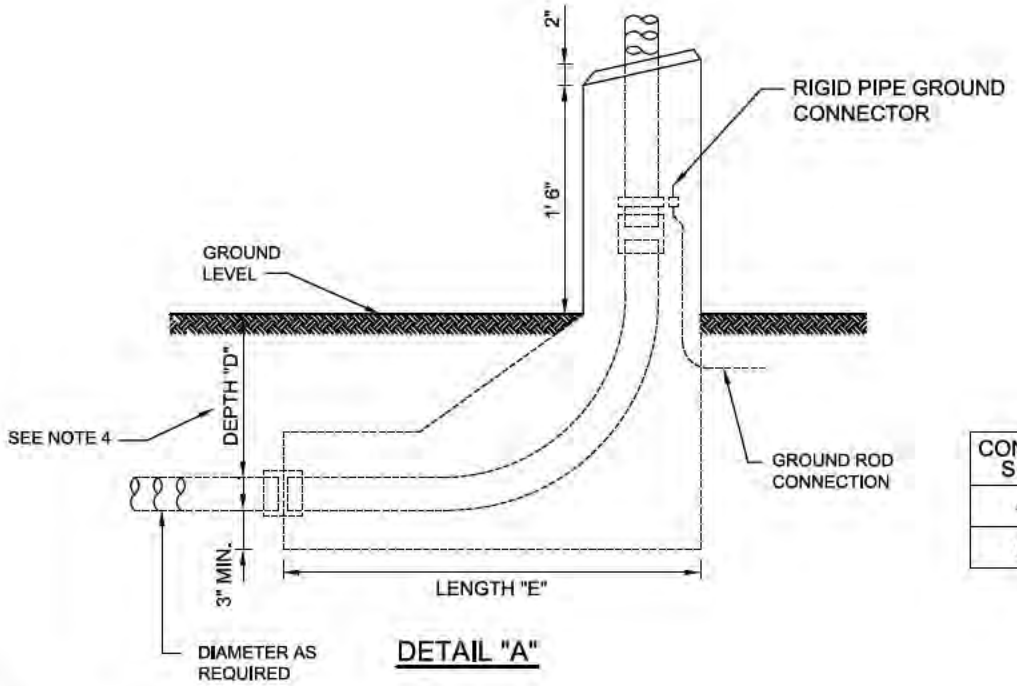
TITLE:

PRIMARY AND SECONDARY RISER CONDUIT DETAIL

STANDARD NO. URD-4 REV 0
PAGE 2 OF 3 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED



CONDUIT SIZE	LENGTH "A"	LENGTH "B"	LENGTH "C"	LENGTH "D"
4"	18"	10 1/2"	12"	9 1/2"
6"	22 1/4"	12 5/8"	12"	17 3/8"



DETAIL "A"

CONDUIT SIZE	LENGTH "E"	SWEEP RADIUS
4"	2'-8"	36"
6"	3'-6"	48"

NOTES:

1 - THE RIGID RISER PIPE IS TO BE INSTALLED PARALLEL TO THE STREET.

2 - THE RISER WILL BE FIXED TO THE POLE WITH CLAMPS.

3 - THE RISER PIPE WILL BE RIGID EXCEPT WHEN THE PROJECT IS LOCATED LESS THAN A MILE FROM A BODY OF WATER, WHERE SCHEDULE 80 PVC PIPES WILL BE USED.

4 - DEPTH "D" WILL BE 48" FOR PRIMARY DISTRIBUTION AND 36" FOR SECONDARY DISTRIBUTION. REFER TO TABLE 352-1 IN NESC FOR MORE DETAILS.

5 - THE SPARE CONDUIT IS TO BE INSTALLED IN THE SAME TRENCH AS THE CONDUIT WITH THE ENERGIZED LINE BETWEEN THE POLE AND THE NEXT INSTALLED EQUIPMENT.

6 - NO SPARE CONDUIT IS REQUIRED IN LOOPS FOR PAD MOUNTED DISTRIBUTION TRANSFORMERS OR IN THE INSTALLATION OF METER BASES FOR A SINGLE CUSTOMER.

7 - SCHEDULE 80 PVC PIPE WILL BE ALLOWED IN THE CONSTRUCTION OF RISERS IN ANY AREA AND THE USE OF PREPA-APPROVED FIBERGLASS PIPE IN PRIVATE SYSTEMS THAT WILL NOT BE TRANSFERRED TO PREPA.

8 - REFER TO STANDARDS URD-2, URD-2A, URD-3, OR URD-3A FOR MORE INFORMATION.

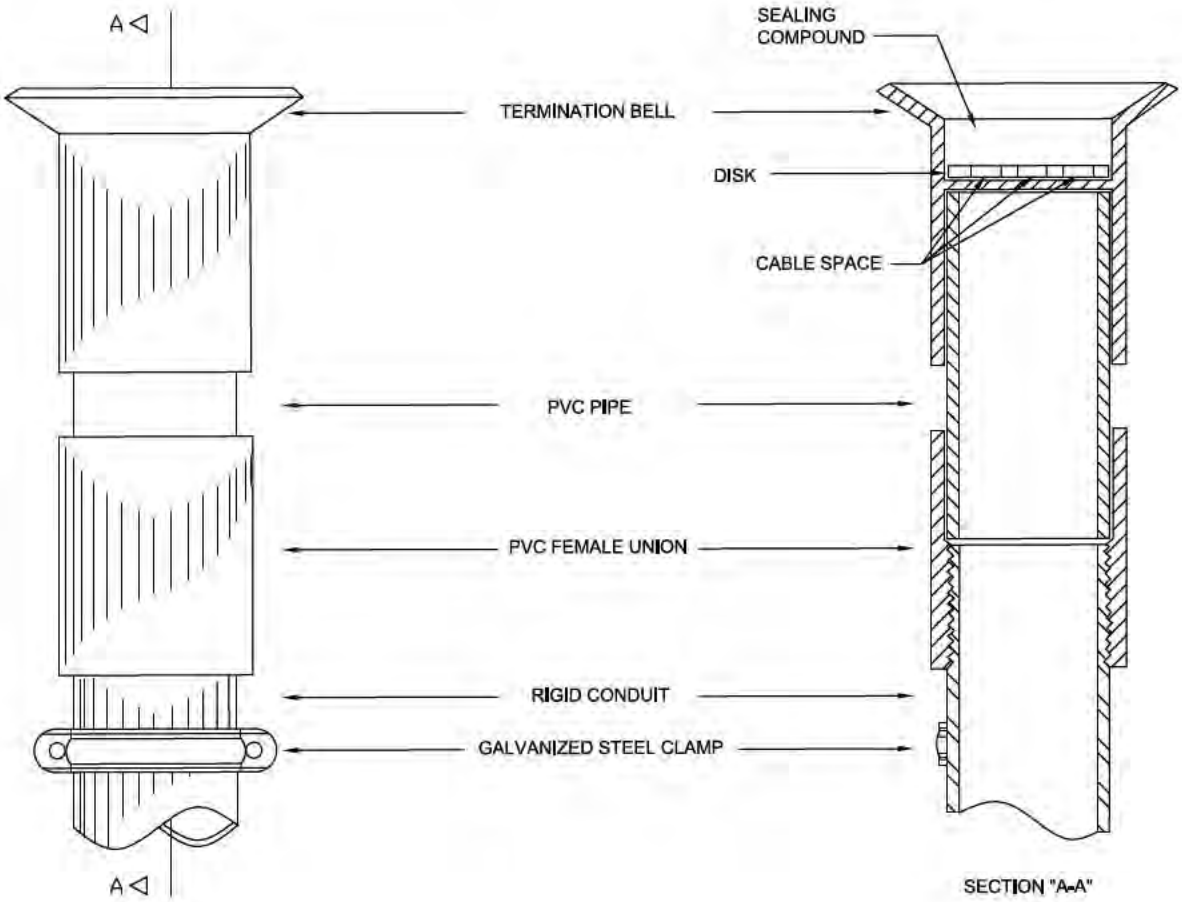
9 - THERE IS TO BE 3" OF SEPARATION BETWEEN THE TWO CONDUITS, AS WELL AS 3" OF SEPARATION BETWEEN THE CONDUIT AND THE WALL.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-5 REV 0
SEALING OF THE RISER CONDUIT	PAGE 1 DATE REVIEWED SUBMITTED RECOMMENDED APPROVED DIGITIZED



NOTES:

1 - SCHEDULE 80 PVC PIPE IS USED INSTEAD OF RIGID CONDUIT WHEN THE SITE IS WITHIN A MILE OF THE COAST.

2 - WHEN SCHEDULE 80 PVC PIPE IS USED, THE FEMALE PVC UNION IS OMITTED AND THE CONDUIT ENDS WITH THE TERMINATION BELL.

MATERIALS			
NO.	GENERAL DESCRIPTION	WAREHOUSE ITEM	QTY.
XXXX	TERMINATION BELL	XXX-XXXXX	XXXX
XXXX	PVC FEMALE UNION	XXX-XXXXX	XXXX
XXXX	PVC PIPE	XXX-XXXXX	XXXX

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

TRENCH DETAIL FOR THE
INSTALLATION OF PRIMARY FEEDERS

STANDARD NO. URD-6 REV 3
PAGE _____ DATE -
REVIEWED -
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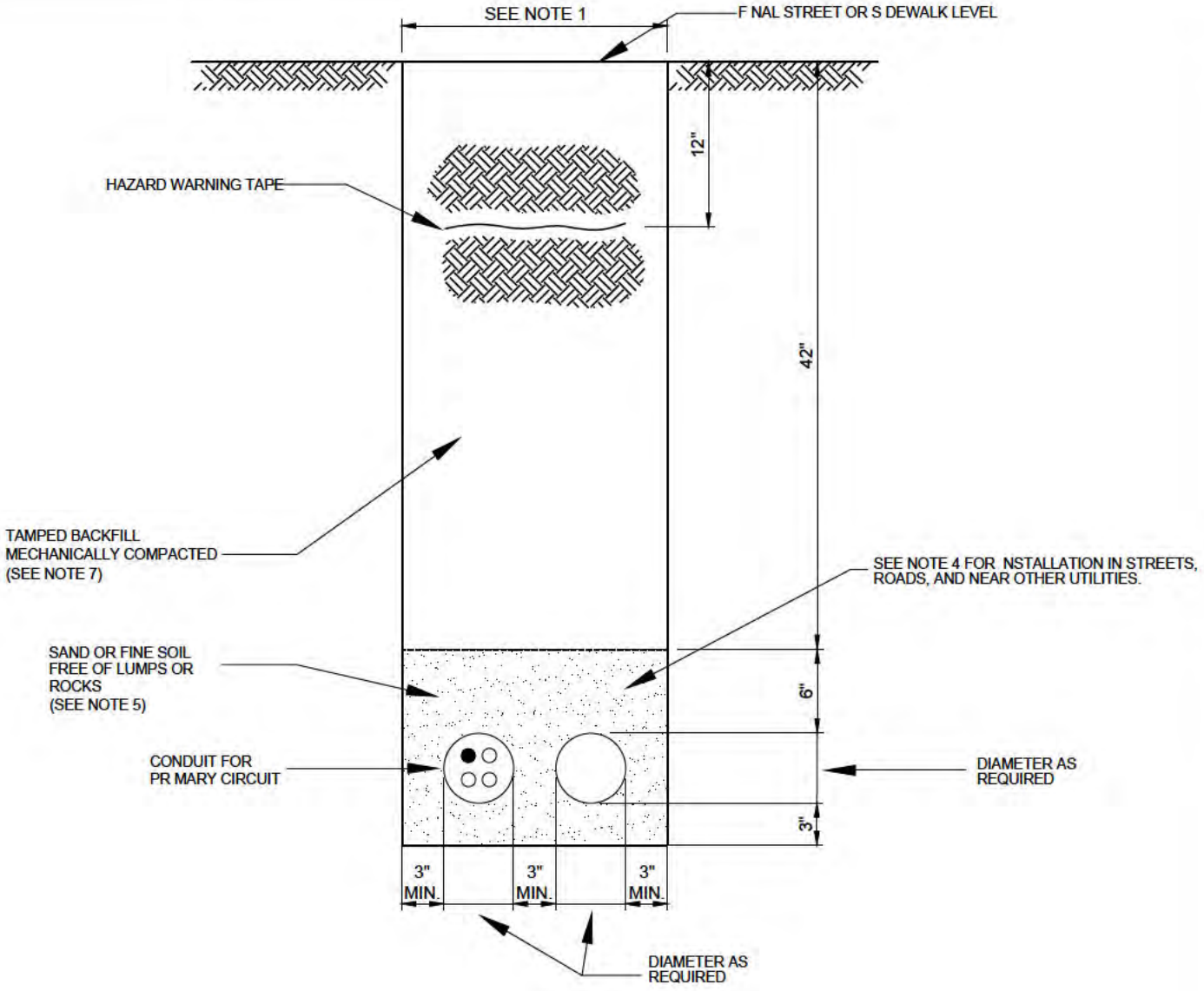
RECOMMENDED _____
APPROVED _____
DIGITIZED _____



NOTES:

1 - TRENCH WIDTH AS REQUIRED.

2 - A SPARE CONDUIT WILL ALWAYS BE REQUIRED FOR EACH PR MARY CABLE CARRY NG CONDUIT, EXCEPT IN SINGLE-PHASE LOOPS BETWEEN TRANSFORMERS IN RESIDENTIAL DISTRIBUTION SYSTEMS.

3 - WHEN MORE THAN ONE C RCUIT IS NSTALLED IN THE SAME TRENCH, THEY W LL BE INSTALLED IN SEPARATE CONDUITS.

4 - THE CONDUITS SHOULD BE PROTECTED WITH A CONCRETE ENCASING WITH A M NIMUM THICKNESS OF 3" WHEN INSTALLED IN ROADS, STREET CROSSINGS, AND WHERE FAC LITIES FROM ANOTHER PUBLIC OR PRIVATE SERVICE COMPANY ARE IN CLOSE PROX MITY. THE CONCRETE TO BE USED SHOULD BE 3000 PSI.

5 - IF THE BOTTOM OF THE TRENCH CONTAINS SHARP MATERIALS, THE CONDUIT SHOULD BE LAID ON A 4"-THICK LAYER OF SAND OR SOIL FREE OF LUMPS OR ROCKS.

6 - REFER TO TABLE 352-1 IN NESC FOR MORE DETA LS.

7 - BACKFILL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 8" LOOSE DEPTH, AND COMPACTED TO A MINIMUM OF 95% OF STANDARD MAXIMUM DENSITY (ASTM D 698) AT THE PROPER MOISTURE CONTENT OF THE UNDISTURBED SOIL.

8 - SPACERS FOR CONDUIT ARE REQU RED EVERY 6 FEET.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

TRENCH DETAIL FOR THE INSTALLATION
OF PRIMARY AND SECONDARY RESIDENTIAL SYSTEM

STANDARD NO. URD-7 REV 3
PAGE _____ DATE -
REVIEWED -
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RECOMMENDED
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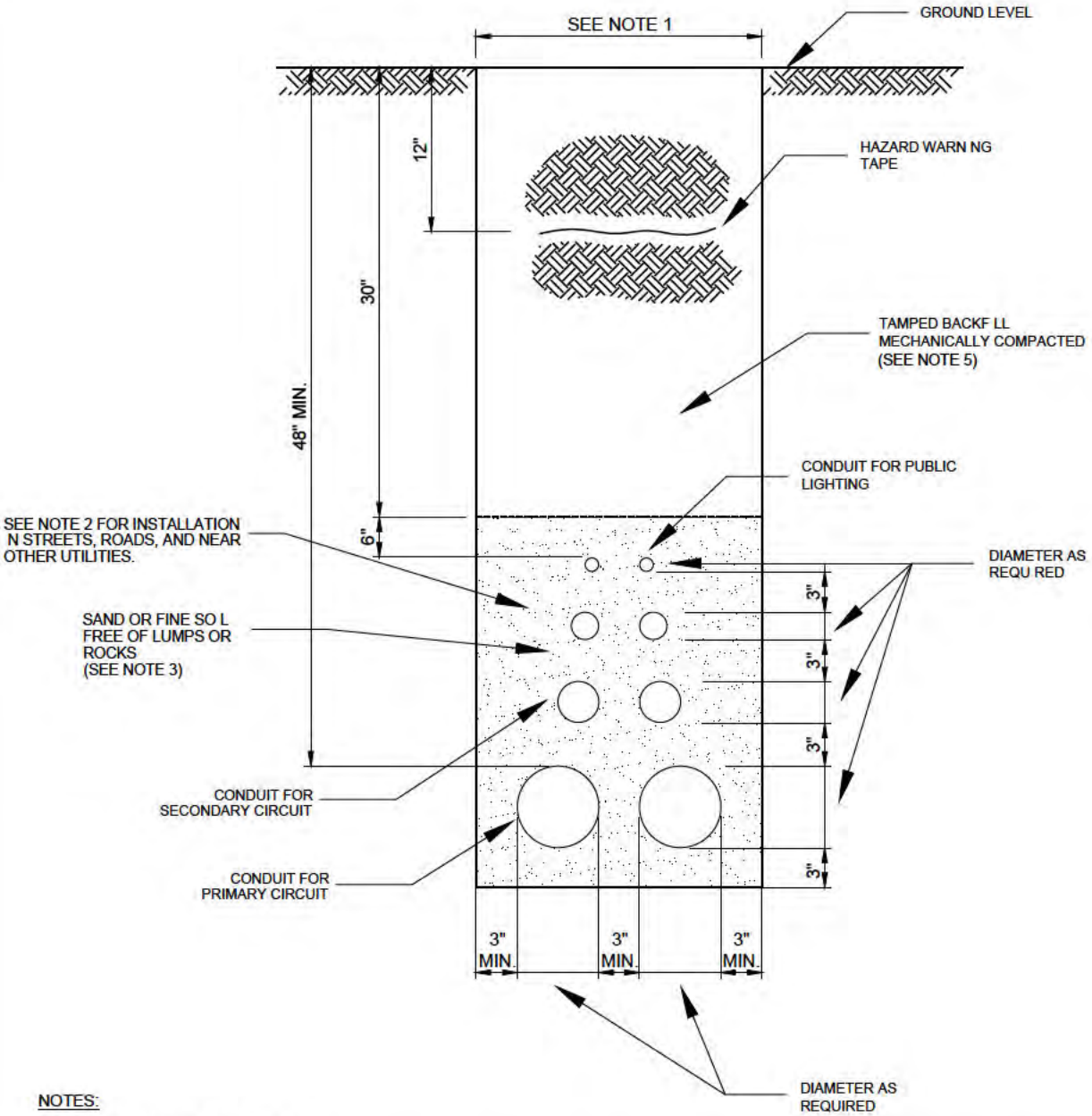

NOTES:

1 - TRENCH WIDTH AS REQUIRED.

2 - THE CONDUITS SHOULD BE PROTECTED WITH A CONCRETE ENCAS NG WITH A M NIMUM THICKNESS OF 3" WHEN NSTALLED IN ROADS, STREET CROSSINGS, AND WHERE FACILITIES FROM ANOTHER PUBLIC OR PRIVATE SERVICE COMPANY ARE N CLOSE PROX MITY. THE CONCRETE TO BE USED SHOULD BE 3000 PSI.

3 - IF THE BOTTOM OF THE TRENCH CONTAINS SHARP MATERIALS, THE CONDUIT SHOULD BE LA D ON A 4"-THICK LAYER OF SAND OR SOIL FREE OF LUMPS OR ROCKS.

4 - REFER TO TABLE 352-1 N NESC FOR MORE NFORMATION.

5 - BACKF LL SHALL BE PLACED N UN FORM LAYERS NOT TO EXCEED 8" LOOSE DEPTH, AND COMPACTED TO A MIN MUM OF 95% OF STANDARD MAXIMUM DENSITY (ASTM D 698) AT THE PROPER MOISTURE CONTENT OF THE UNDISTURBED SOIL.

6 - SPACERS FOR CONDUIT ARE REQUIRED EVERY 6 FEET.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

TRENCH DETAIL FOR THE INSTALLATION OF SECONDARY AND PUBLIC LIGHTING

STANDARD NO. URD-8 REV 3
PAGE _____ DATE -
REVIEWED -
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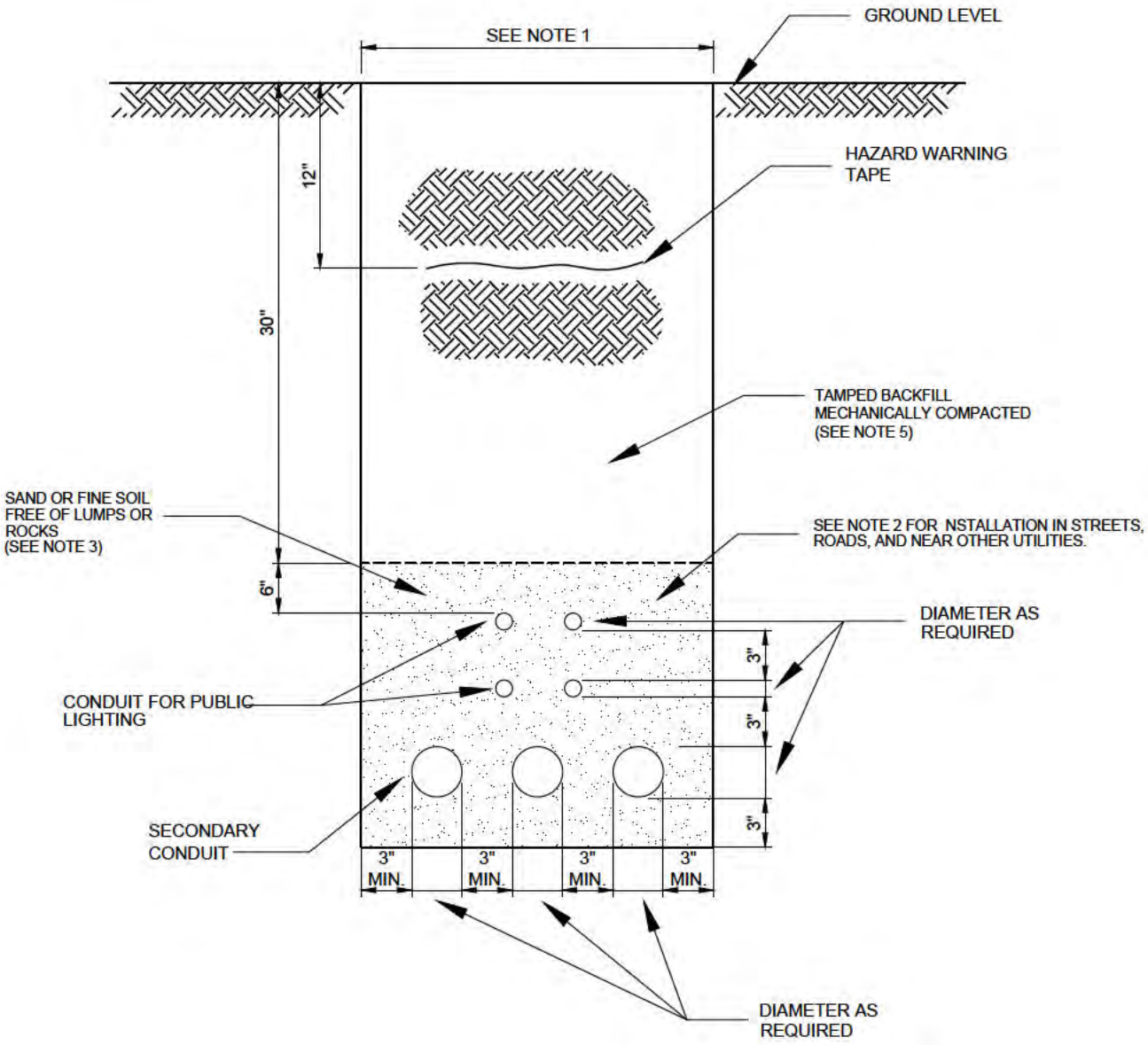

NOTES:

1 - TRENCH WIDTH AS REQUIRED.

2 - THE CONDUITS SHOULD BE PROTECTED WITH A CONCRETE ENCASING WITH A MINIMUM THICKNESS OF 3" WHEN INSTALLED IN ROADS, STREET CROSSINGS, AND WHERE FACILITIES FROM ANOTHER PUBLIC OR PRIVATE SERVICE COMPANY ARE IN CLOSE PROXIMITY. THE CONCRETE TO BE USED SHOULD BE 3000 PSI.

3 - F THE BOTTOM OF THE TRENCH CONTA NS SHARP MATERIALS, THE CONDUIT SHOULD BE LA D ON A 4"-THICK LAYER OF SAND OR SOIL FREE OF LUMPS OR ROCKS.

4 - REFER TO TABLE 352-1 N NESC FOR MORE INFORMATION.

5 - BACKFILL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 8" LOOSE DEPTH, AND COMPACTED TO A M NIMUM OF 95% OF STANDARD MAX MUM DENSITY (ASTM D 698) AT THE PROPER MOISTURE CONTENT OF THE UNDISTURBED SOIL.

6 - SPACERS FOR CONDUIT ARE REQU RED EVERY 6 FEET.

6 - CONDUIT FOR PUBLIC LIGHTING SHOULD BE 2".

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

TRENCH DETAIL FOR THE INSTALLATION OF PRIMARY AND SECONDARY CABLES IN ROCKY TERRAIN

STANDARD NO. URD-9 REV 3
PAGE _____ DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
APPROVED
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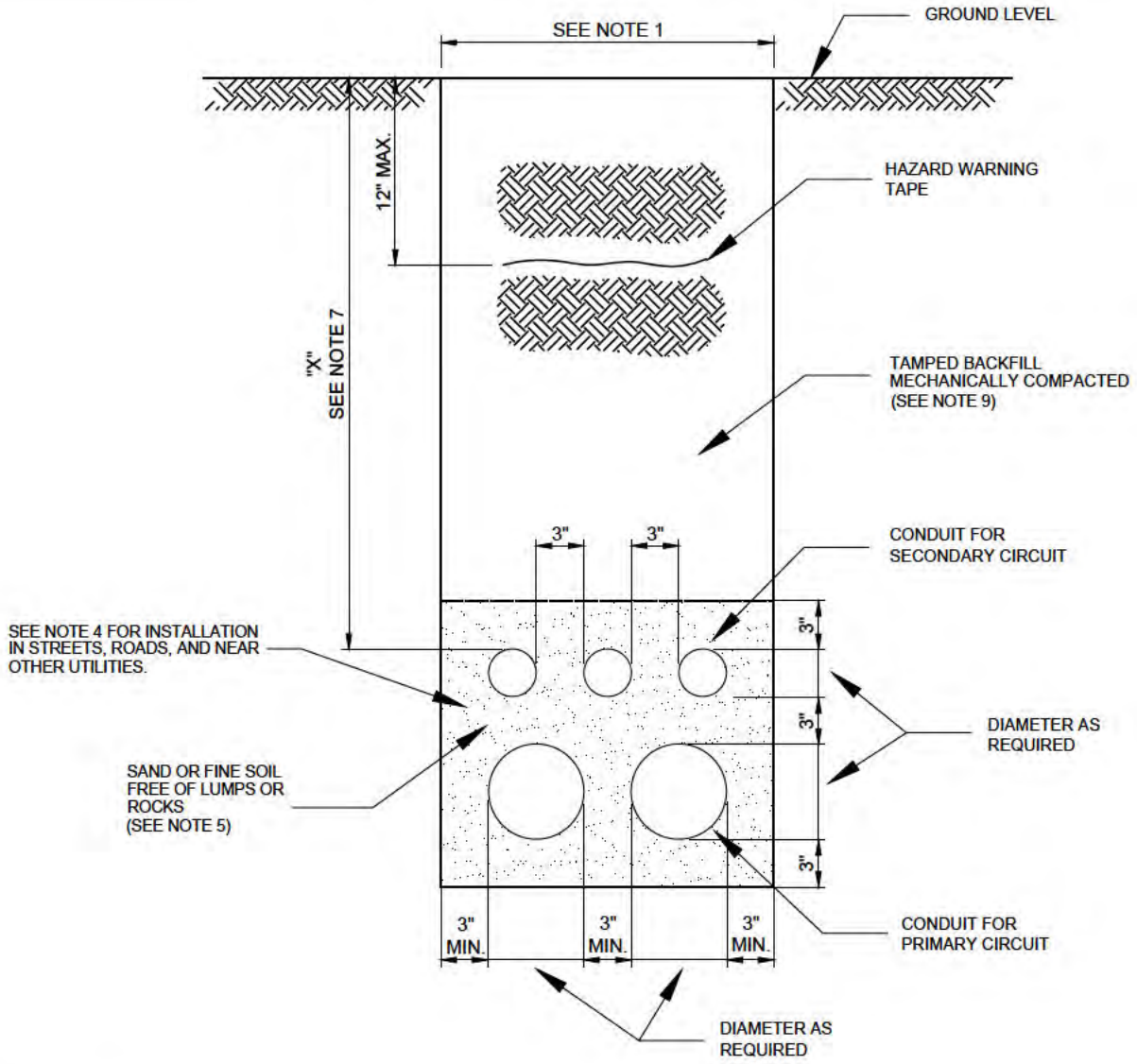


NOTES:

1 - TRENCH WIDTH AS REQUIRED.

2 - THE CONDUITS SHOULD BE PROTECTED WITH A CONCRETE ENCASING WITH A MINIMUM THICKNESS OF 3" WHEN INSTALLED IN ROADS, STREET CROSS NGS, AND WHERE FACILITIES FROM ANOTHER PUBLIC OR PRIVATE SERVICE COMPANY ARE IN CLOSE PROXIMITY. THE CONCRETE TO BE USED SHOULD BE 3000 PSI.

3 - WHEN MORE THAN ONE CIRCUIT IS INSTALLED IN THE SAME TRENCH, THEY WILL BE INSTALLED IN SEPARATE CONDUITS.

4 - THE CONDUITS SHOULD BE ENCASED N A LAYER OF CONCRETE UP TO GROUND LEVEL.

5 - F THE BOTTOM OF THE TRENCH CONTA NS SHARP MATERIALS, THE CONDUIT SHOULD BE LA D ON A 4"-THICK LAYER OF SAND OR SOIL FREE OF LUMPS OR ROCKS.

6 - REFER TO TABLE 352-1 N NESC FOR MORE INFORMATION.

7 - THE DISTANCE "X" SHOULD NOT BE LESS THAN 24" FOR ANY CONDUIT.

8 - THE APPLICATION OF THIS CONSTRUCTION IS SUBJECT TO APPROVAL BY THE PREPA'S REGIONAL NSPECTIONS OFFICE SUPERVISOR.

9 - BACKFILL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 8" LOOSE DEPTH, AND COMPACTED TO A MINIMUM OF 95% OF STANDARD MAXIMUM DENSITY (ASTM D 698) AT THE PROPER MOISTURE CONTENT OF THE UNDISTURBED SO L.

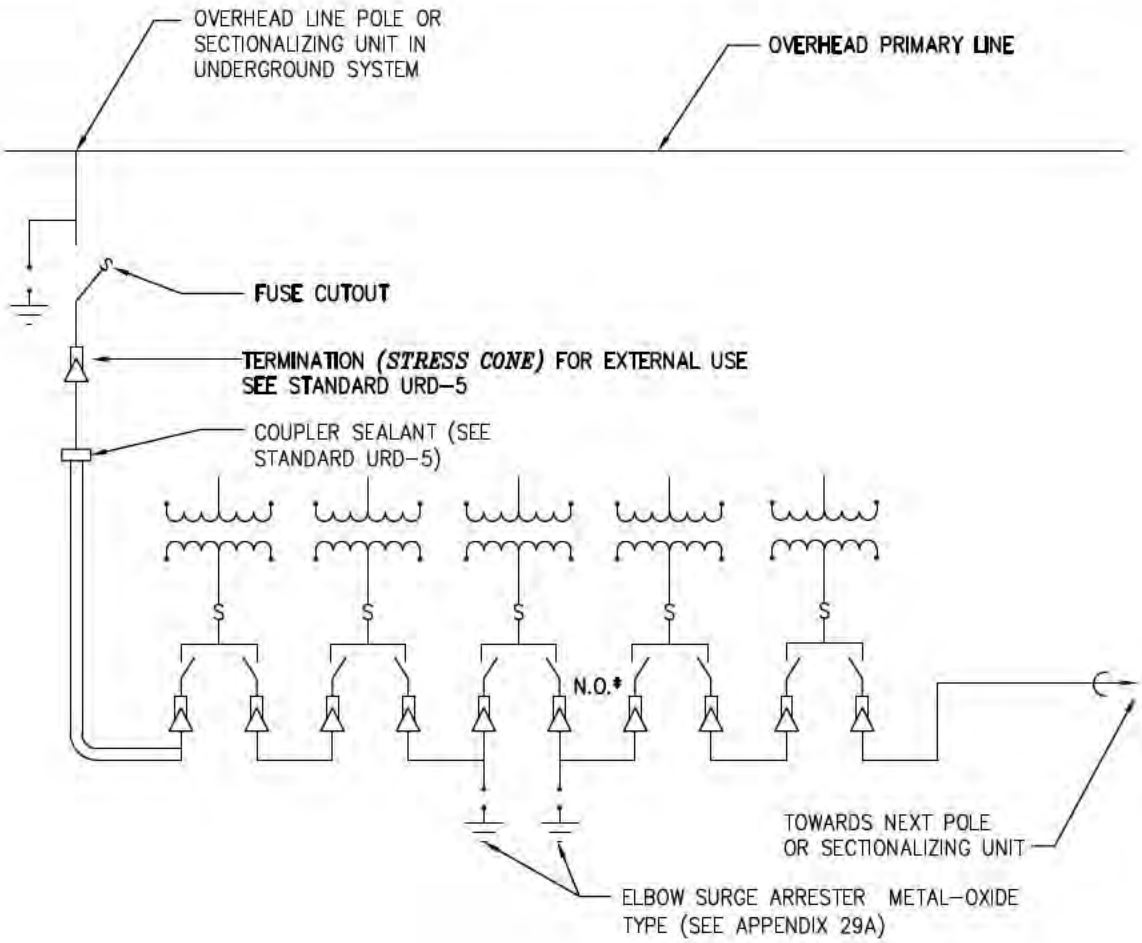
10 - SPACERS FOR CONDUIT ARE REQUIRED EVERY 6 FEET.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
SINGLE-PHASE LOOP SYSTEM FOR PAD MOUNTED TRANSFORMERS	STANDARD NO. URD-10 REV 0 PAGE _____ DATE _____ REVIEWED _____ SUBMITTED _____ RECOMMENDED _____ APPROVED _____ DIGITIZED _____



NOTES:

1- THE MAXIMUM CURRENT IN THE LOOP SHOULD BE 100 AMPS.

2- USE EXTERNAL TERMINATION APPROVED BY PREPA WHEN THE UNDERGROUND LINE TAPS OFF OF AN OVERHEAD LINE.

3- USE INTERIOR TERMINATION APPROVED BY PREPA IN SECTIONALIZING UNITS.

4- COUPLER SEALANT IS REQUIRED WHEN THE UNDERGROUND LINE TAPS OFF OF AN OVERHEAD LINE.

5- THIS STANDARD IS AN ILLUSTRATIVE EXAMPLE OF A SINGLE-PHASE LOOP SYSTEM.

LEGEND:

*N.O.= NORMALLY OPEN

PUERTO RICO ELECTRIC POWER AUTHORITY

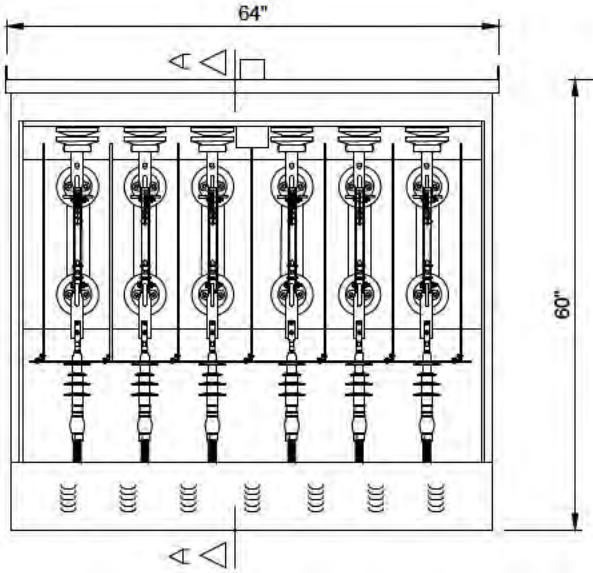
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

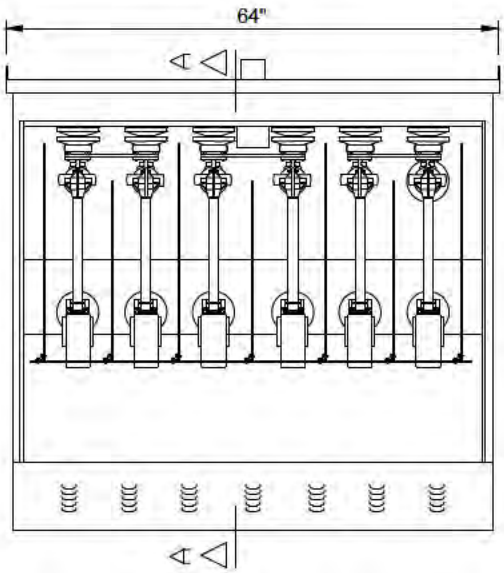
TITLE:

THREE PHASE 600 AMP SECTIONALIZER
WITH 200 AMP FUSES (MAX) 95kV BIL

STANDARD NO. - URD-11 REV - 3
PAGE - DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
APPROVED
DIGITIZED



FRONT VIEW
(DOORS REMOVED)



REAR VIEW
(DOORS REMOVED)

NOTES:

1- SEE SPECIFICATION 01-82 FOR REQUIRED MINIMUM CLEARANCE.

2- THE LOAD BREAK TOOL SHOULD BE USED WITH AN 8' ROD. WHEN THE USE OF THIS TOOL IS ANTICIPATED, A MINIMUM 9' OF SEPARATION OF ANY STRUCTURES ON THE SIDES OF THE DOORS MUST BE PROVIDED.

3- INSULATED BARRIERS WILL BE INSTALLED IN THE METAL WALLS FOR THE SAFE OPERATION OF THE LOADBREAKER TOOL. THESE WILL BE HELD ON THE LOWER PART WITH A 2" SUPPORT MADE OF INSULATING MATERIAL.

4- THE BLADES OF THE SECTIONALIZING UNIT CAN OPEN 90 DEGREES.

5- THE SWITCH PIVOT POINT SHOULD BE TOWARDS THE BOTTOM OF THE SECTIONALIZING UNIT.

6- ON THE SECOND DOOR OF THE SECTIONALIZING UNIT THERE SHOULD BE A LABEL THAT READS: "WARNING: THE DISCONNECT MAY BE ENERGIZED EVEN IF IT IS IN THE OPEN POSITION". THE DIMENSIONS SHOULD BE 6" X 6" WITH A WHITE BACKGROUND AND RED LETTERS.

7- ON THE FUSED SIDE, THE INSIDE OF THE SECOND DOOR SHOULD HAVE A LABEL THAT READS: "WARNING: IT IS NECESSARY TO CLOSE OR REMOVE THE FUSES BEFORE CLOSING THIS DOOR". THE DIMENSIONS SHOULD BE 6" X 6" WITH A WHITE BACKGROUND AND RED LETTERS.

8- EVERY CABINET MUST HAVE A PLATE OR LABEL INSIDE AND OUTSIDE OF THE CABINET CONTAINING THE MANUFACTURER'S NAME, POSTAL AND PHYSICAL ADDRESS, AND PHONE NUMBER. SEE RELEASE 03-03.

9- THE FUSES AND THE BLADES DO NOT HAVE TO BE AT THE SAME HEIGHT. THE LOWER OF THE TWO IS REQUIRED TO MEET THE MINIMUM CLEARANCE OF 22 1/2" IN HEIGHT.

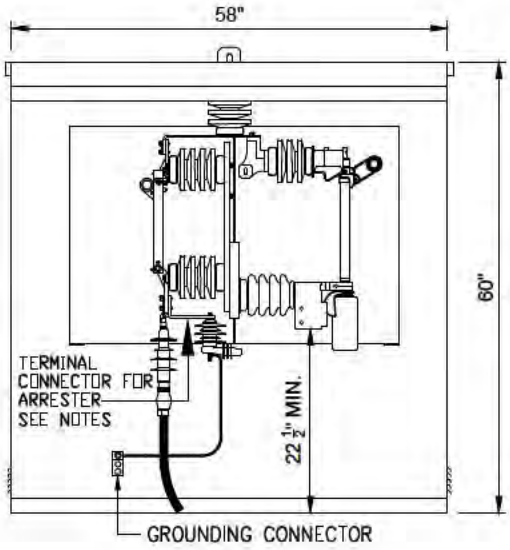
10- ARRESTERS SHOULD BE INSTALLED AT THE NORMALLY OPEN POINTS OF THE THREE PHASE TAP.

11- EACH SECTIONALIZING UNIT MUST HAVE 6 ARRESTER CONNECTION TERMINALS INSTALLED ON THE PRIMARY SIDE BY THE MANUFACTURER. THESE MUST COMPLY WITH THE MINIMUM REQUIRED CLEARANCES.

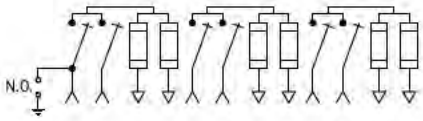
12- THE ARRESTER CONNECTION TERMINAL MAY VARY BY MANUFACTURER. THE CABLE CONNECTION MUST BE INDEPENDENT TO THAT OF THE ARRESTER.

13- THE ARRESTER'S EXPULSION SHOULD BE DOWNWARDS.

14- THE FAULT INDICATOR FOR THE FUSE SHOULD BE SEEN WHEN OPENING THE SECOND DOOR.



SECTION A-A



ONE LINE ELECTRICAL DIAGRAM

N.O. = NORMALLY OPEN

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

THREE PHASE 600 AMP SECTIONALIZER WITH LOADBREAK (JOINT OPERATION) AND 200 AMP FUSES (MAX) 95KV BIL

STANDARD NO. - URD-11A REV - 3
PAGE - DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
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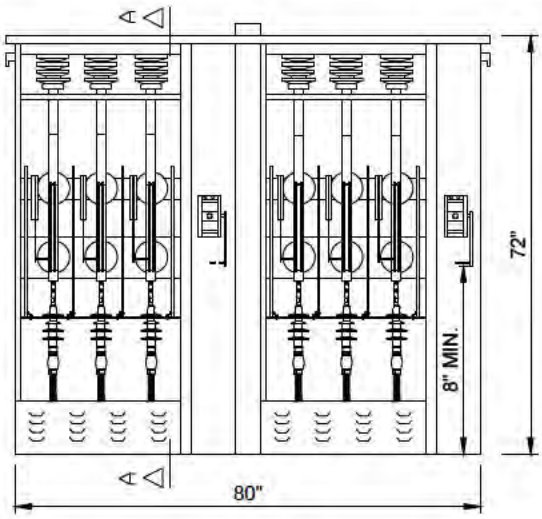
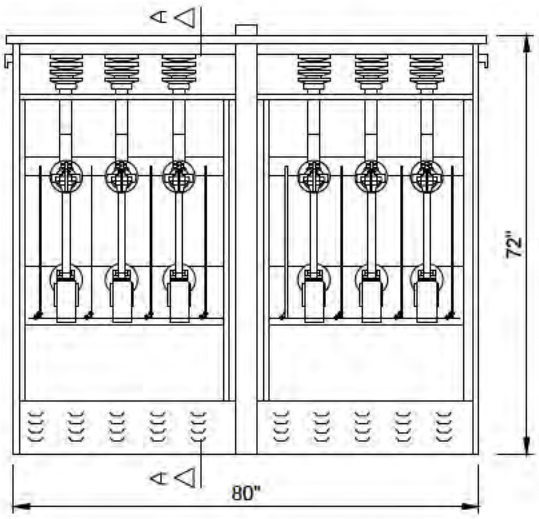
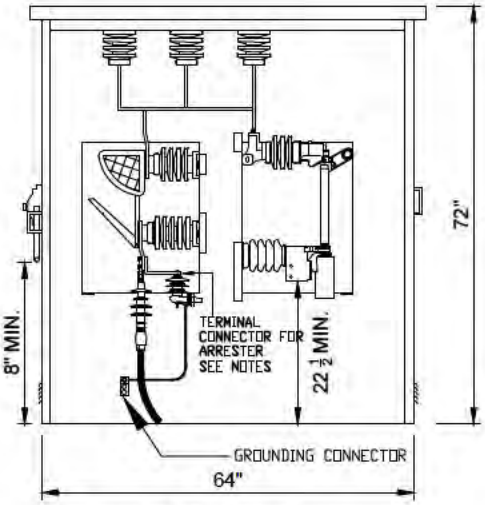


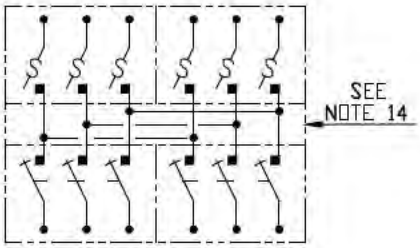
FRONT VIEW



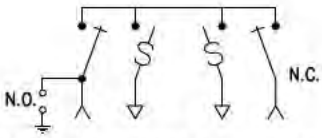
REAR VIEW



SECTION A–A



CONNECTION DIAGRAM



ONE LINE ELECTRICAL DIAGRAM

N.O. = NORMALLY OPEN N.C. = NORMALLY CLOSED

NOTES:

1– THIS EQUIPMENT IS USED IN THREE PHASE SYSTEMS THAT FEED THREE PHASE LOAD.

2– THE URD–11 STANDARD IS USED FOR RESIDENTIAL DEVELOPMENTS.

3– SEE SPECIFICATION 01–B2 FOR MINIMUM CLEARANCE REQUIREMENTS.

4– THE SWITCH PIVOT POINT SHOULD BE TOWARDS THE BOTTOM OF THE SECTIONALIZING UNIT.

5– ON THE SECOND DOOR OF THE SECTIONALIZING UNIT THERE SHOULD BE A LABEL THAT READS: "WARNING: THE DISCONNECT MAY BE ENERGIZED EVEN IF IT IS IN THE OPEN POSITION". THE DIMENSIONS SHOULD BE 6"X6" WITH A WHITE BACKGROUND AND RED LETTERS.

6– ON THE FUSED SIDE, THE INSIDE OF THE SECOND DOOR SHOULD HAVE A LABEL THAT READS: "WARNING: IT IS NECESSARY TO CLOSE OR REMOVE THE FUSES BEFORE CLOSING THIS DOOR". THE DIMENSIONS SHOULD BE 6"X6" WITH A WHITE BACKGROUND AND RED LETTERS.

7– THE ARC SUPPRESSOR SHOULD BE TOWARDS THE TOP OF THE SECTIONALIZING UNIT.

8– EVERY CABINET MUST HAVE A PLATE OR A LABEL ON THE INSIDE AND OUTSIDE OF THE CABINET CONTAINING THE MANUFACTURER'S NAME, POSTAL AND PHYSICAL ADDRESS, AND PHONE NUMBER. SEE RELEASE 03–03.

9– ARRESTERS MUST BE INSTALLED AT NORMALLY OPEN POINTS OF THE THREE PHASE TAP.

10– THE ARRESTER'S EXPULSION SHOULD BE DOWNWARDS.

11– INSULATED BARRIERS WILL BE INSTALLED IN THE METAL WALLS FOR THE SAFE OPERATION OF THE LOADBREAK TOOL. THESE WILL BE HELD ON THE LOWER PART WITH A 2" SUPPORT MADE OF INSULATING MATERIALS.

12– EACH SECTIONALIZING UNIT MUST HAVE 6 ARRESTER CONNECTION TERMINALS INSTALLED ON THE PRIMARY SIDE BY THE MANUFACTURER. THESE MUST COMPLY WITH THE MINIMUM REQUIRED CLEARANCES.

13– THE ARRESTER CONNECTION TERMINAL MAY VARY BY MANUFACTURER. THE CABLE CONNECTION MUST BE INDEPENDENT OF THAT OF THE ARRESTER.

14– IF THE CONNECTION IS DIFFERENT FROM THE ONE ILLUSTRATED, THE PHASES MUST BE IDENTIFIED.

15– THE FAULT INDICATOR FOR THE FUSE SHOULD BE SEEN WHEN OPENING THE SECOND DOOR.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

REINFORCED CONCRETE BASE FOR 600 AMP
SECTIONALIZING UNIT (FOR CABLES 4/0 AWG CU OR LESS)

STANDARD NO. URD-12 REV 2
PAGE _____ DATE -
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SUBMITTED -
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APPROVED
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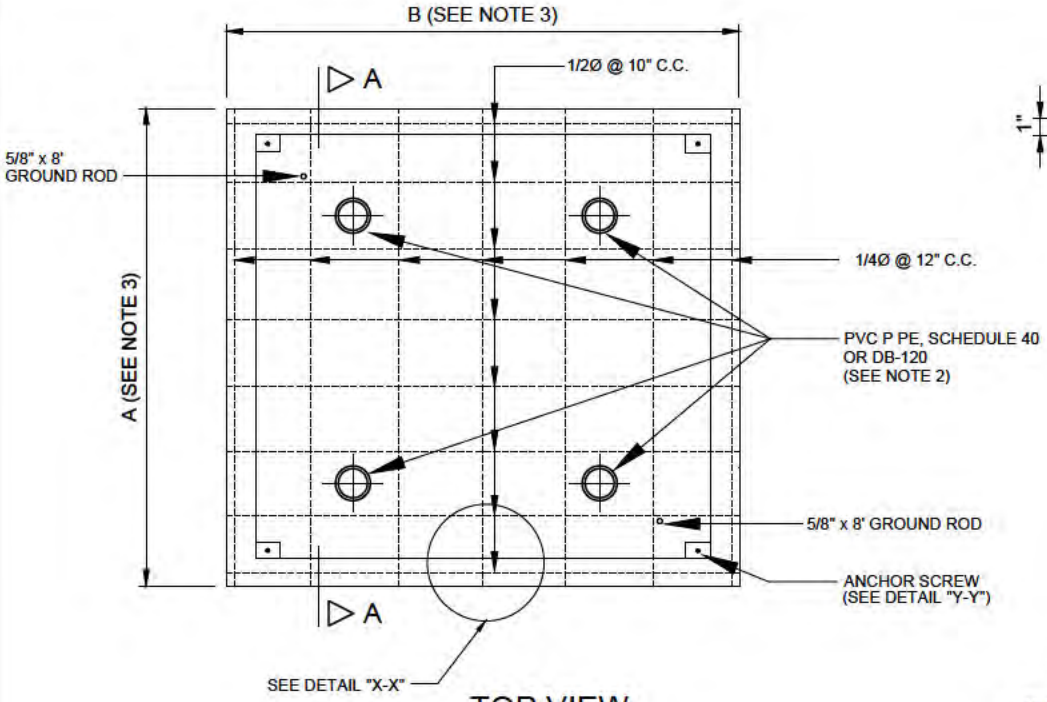
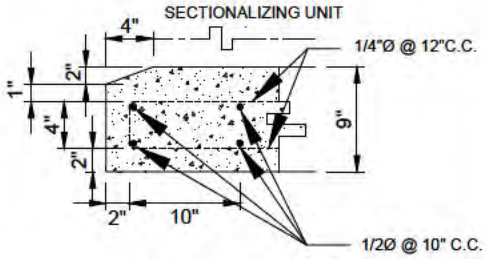
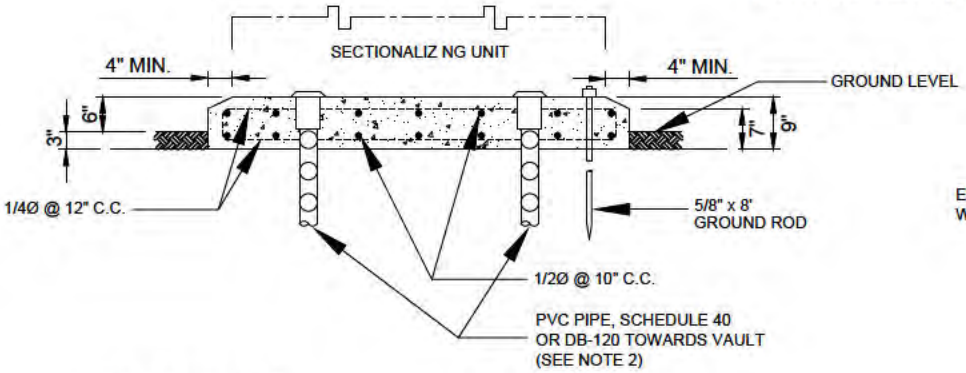


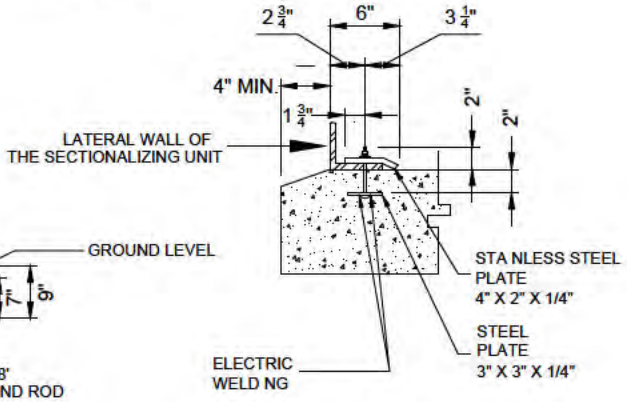
TOP VIEW
NOT AT SCALE



DETAIL X-X
NOT AT SCALE



SECTION A-A
NOT AT SCALE



DETAIL Y-Y
NOT AT SCALE

NOTES:

1 - THIS STANDARD CAN BE USED WHEN THE SECTIONALIZING UNIT TO BE NSTALLED PROVIDES THE DISTANCE OF 22" BETWEEN THE LOWER PART OF ITS CONNECTOR AND THE CONCRETE BASE.

2 - THE LOCATION OF THE PVC CONDUIT W LL BE ACCORDING TO THE MODEL OF SECTIONALIZING UNIT TO BE INSTALLED. THE AMOUNT AND SIZE OF THE CONDUIT WILL BE COORDINATED WITH PREPA ACCORD NG TO THE NUMBER OF SERVICES REQU RED AND THE SIZE OF THE CONDUCTOR.

3 - THE W DTH (A) AND LENGTH (B) D MENSIONS OF THE BASE WILL DEPEND ON THE SECTIONALIZING UNIT MODEL TO BE INSTALLED. THESE MEASURES SHALL BE VERIFIED BEFORE POUR NG THE CONCRETE.

4 - COMPACT THE GROUND BEFORE POURING THE CONCRETE TO A M N MUM OF 95% OF STANDARD MAX MUM DENSITY (ASTMD 698) AT THE PROPER MOISTURE CONTENT OF THE UNDISTURBED SO L.

5 - APPROPRIATE REINFORCEMENT SHOULD BE PROVIDED DEPENDING ON THE SUPPORT CAPACITY OF THE GROUND.

6 - CONCRETE SPECIFICATIONS, MINIMUM 28 DAYS COMPRESSIVE STRENGTH - 4000 PSI, 3/4" AGGREGATE MAXIMUM SIZE.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

REINFORCED CONCRETE BASE FOR
JOINT OPERATION SECTIONALIZING UNIT

STANDARD NO. - URD-13 REV - 4
PAGE - DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
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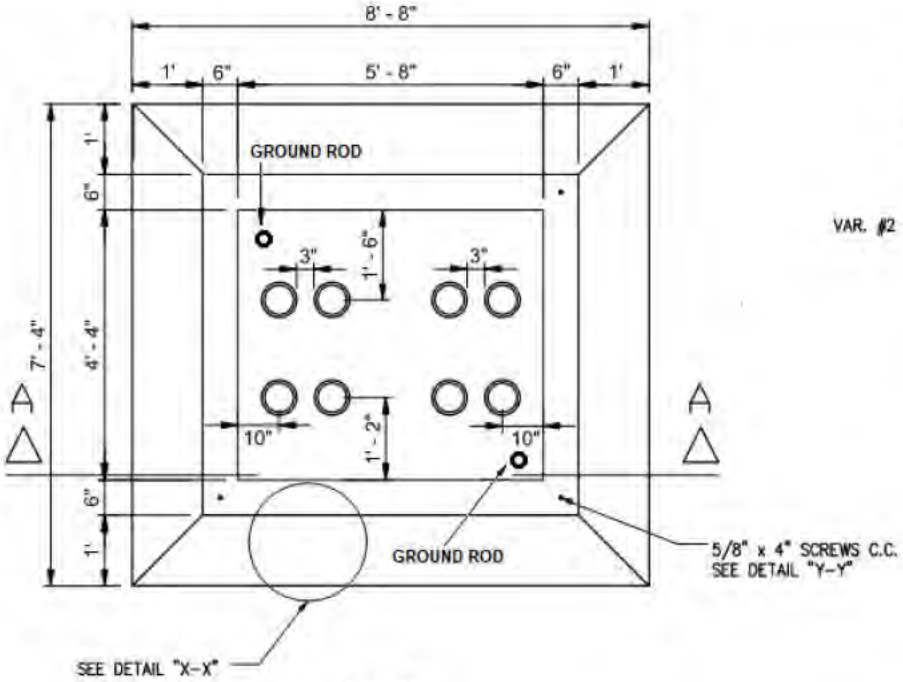
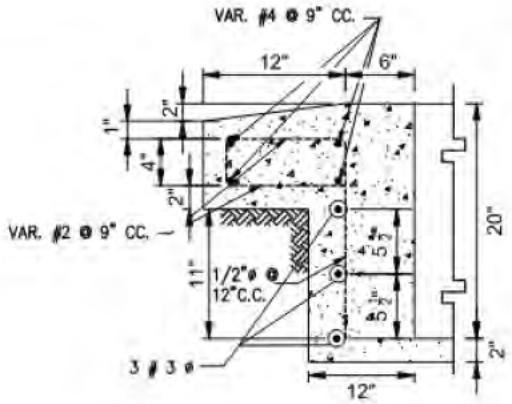
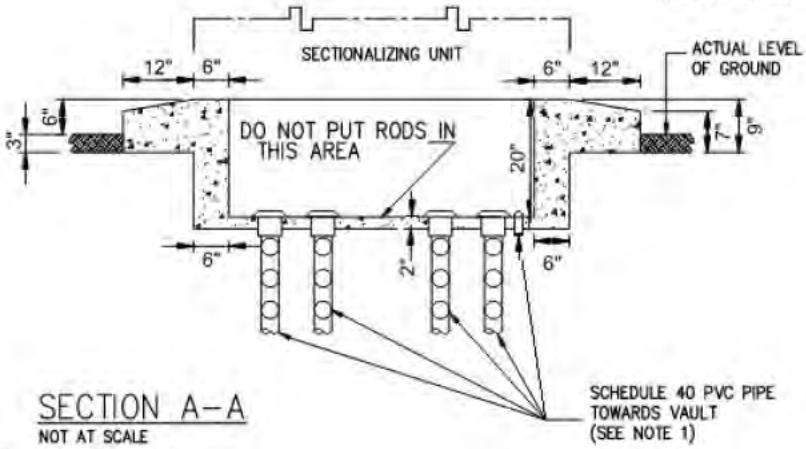


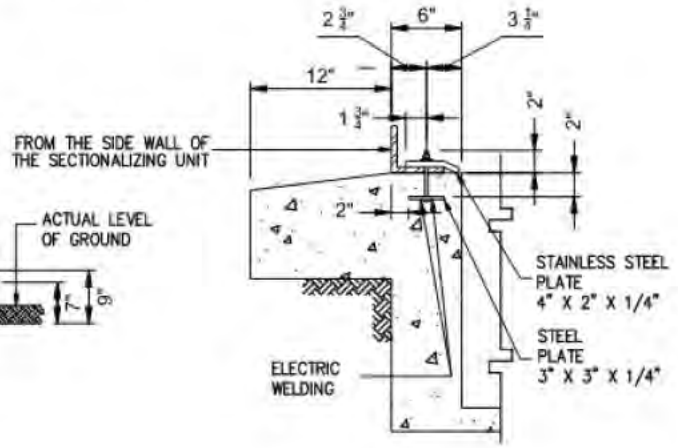
TOP VIEW
NOT AT SCALE



DETAIL X-X
NOT AT SCALE



SECTION A-A
NOT AT SCALE



DETAIL Y-Y
NOT AT SCALE

NOTES:

1 - THE QUANTITY AND SIZE OF PVC CONDUIT WILL BE COORDINATED WITH PREPA ACCORDING TO THE NUMBER OF SERVICES REQUIRED AND THE SIZE OF THE CONDUCTORS.

2 - BEFORE ADDING THE CONCRETE, CHECK THE MEASUREMENTS OF THE SECTIONALIZING UNIT AND COMPARE THEM WITH THOSE OF THE BASE.

3 - COMPACT THE GROUND FIRMLY BEFORE ADDING THE CONCRETE.

4 - APPROPRIATE REINFORCEMENT SHOULD BE PROVIDED DEPENDING ON THE SUPPORT CAPACITY OF THE GROUND.

5- IT WILL NOT BE ACCEPTED TO OBTAIN THE SLOPE OF THE BASE BY MEANS OF PLASTERING.

6- INSERT 1-1/2" CONDUIT FOR GROUND ROD THROUGH BASE

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

PRE-FABRICATED CONCRETE BASE
FOR SECTIONALIZING UNIT

STANDARD NO. - URD-14 REV - 3
PAGE -
DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
APPROVED
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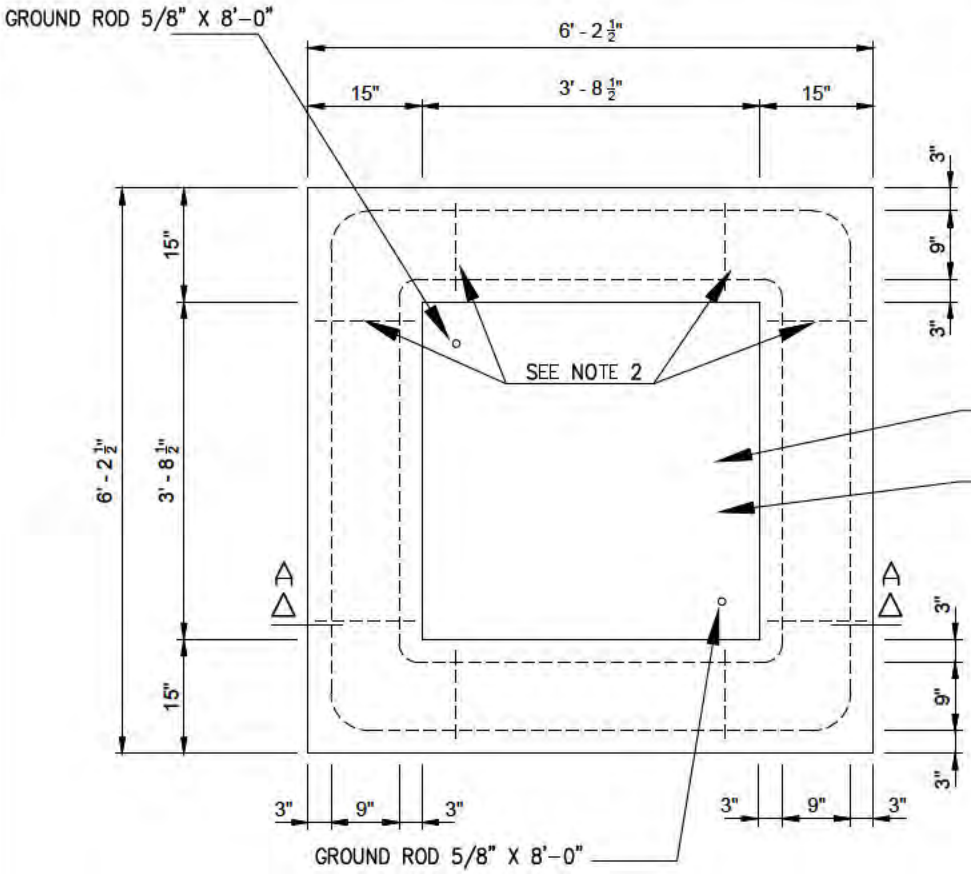


FLOOR VIEW

NOTES:

1- ALL DIMENSIONS ARE SUBJECT TO REVISIONS ACCORDING TO THE SPECIFICATIONS GIVEN BY THE MANUFACTURER FOR THE SECTIONALIZING UNIT.

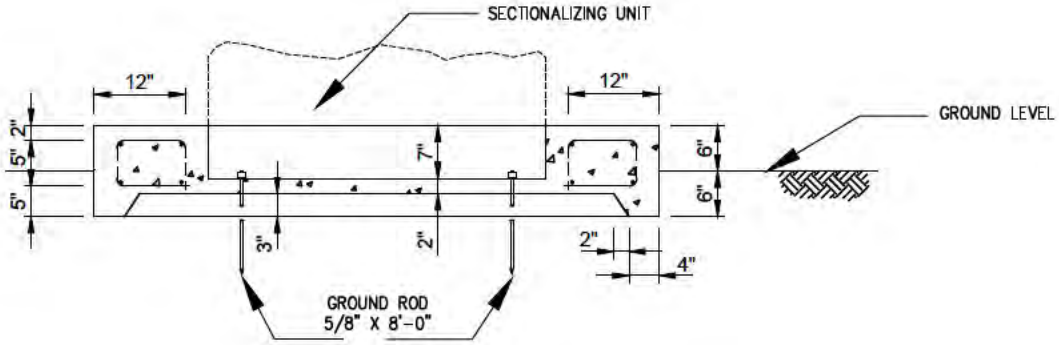
2- WHERE THE DISTANCES ARE NOT INDICATED, 5/8" GROUND RODS WILL BE USED WITH A 6" SEPARATION.

3- THE BASE SHOULD BE EXTENDED BY AT LEAST 12" IN ALL DIRECTIONS AROUND THE SECTIONALIZING UNIT.

4- IN PLACES WITH SOFT TERRAIN, ADDITIONAL REINFORCEMENT WILL NEED TO BE PROVIDED.

DO NOT USE GROUND RODS IN THIS AREA.

PVC CONDUITS AND TERMINATION COVERS ARE TO BE INSTALLED BEFORE POURING THE CONCRETE ACCORDING TO THE PARTICULAR NEEDS OF EACH CASE. THIS INCLUDES THE SPARE CONDUITS.



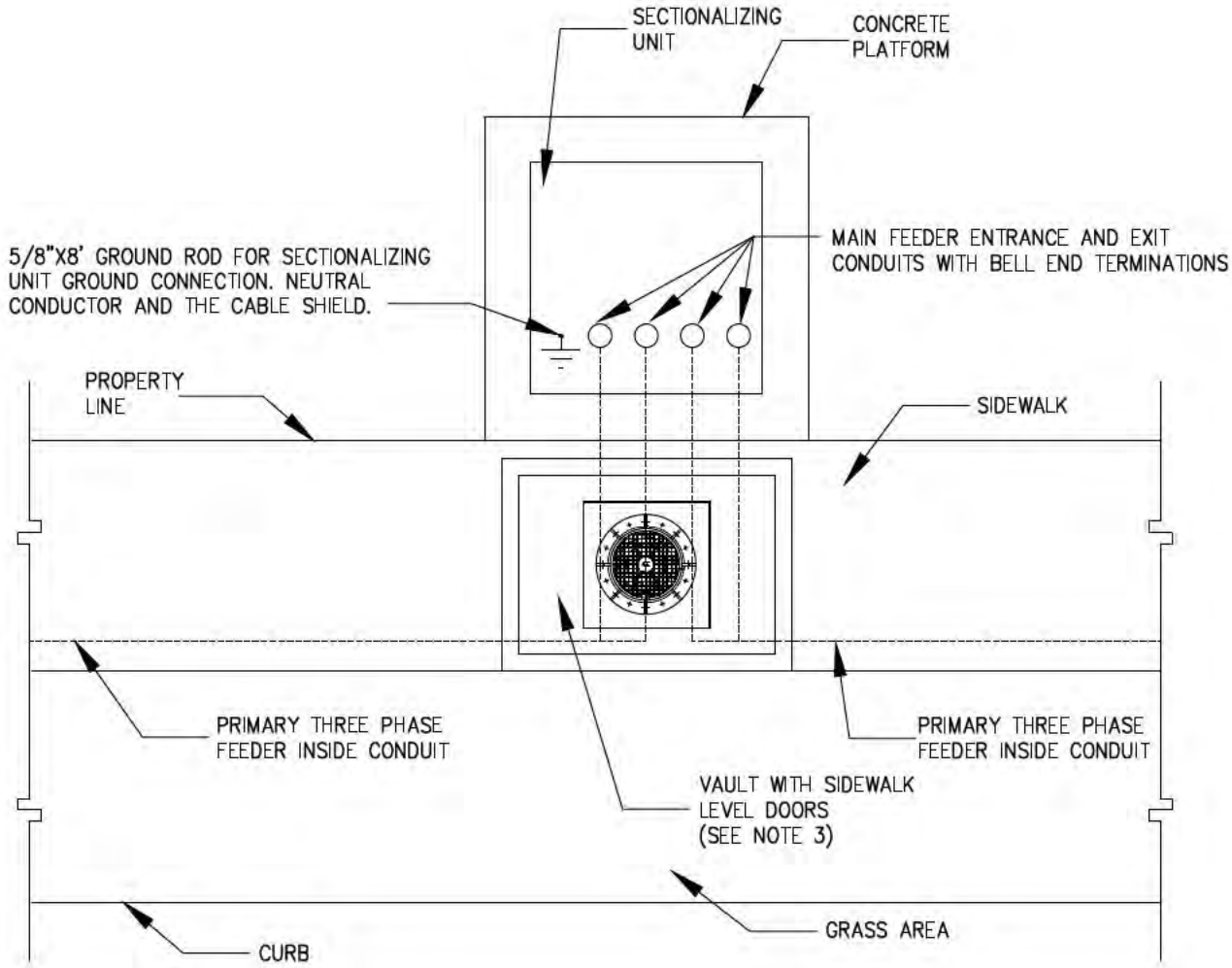
SECTION "A-A"

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
TYPICAL DETAIL FOR THE CONSTRUCTION OF MANHOLE AND SECTIONALIZING UNIT WITH CONDUCTOR GREATER THAN 4/0 AWG	STANDARD NO. - URD-15 REV -4 PAGE - DATE - REVIEWED - SUBMITTED - RECOMMENDED APPROVED DIGITIZED



NOTES:

1– THIS IS A TYPICAL DETAIL. THE EXACT LOCATION OF THE SECTIONALIZING UNIT AND THE VAULT ARE AS INDICATED IN THE DRAWINGS.

2– PROVIDE CONDUITS LEAVING THE SECTIONALIZING UNIT ACCORDING TO THE PLAN DIAGRAM (NOT DEMONSTRATED IN THIS DETAIL).

3– THE SIZE OF THE VAULT DEPENDS ON THE SIZE OF THE FEEDER CONDUCTOR.

4– A 10'X7'X8' VAULT (SEE STANDARD URD–31 AND 31A) WILL BE BUILT IN FRONT OF ANY SECTIONALIZING UNIT THAT HAS CONDUCTORS GREATER THAN 4/0 AWG IN COPPER.

5– THE SECTIONALIZING UNIT WILL NEVER BE INSTALLED ON TOP OF THE VAULT.

6- PROVIDE 9 FEET CLEAR AREA IN FRONT OF DOORS FOR OPERATION

PUERTO RICO ELECTRIC POWER AUTHORITY

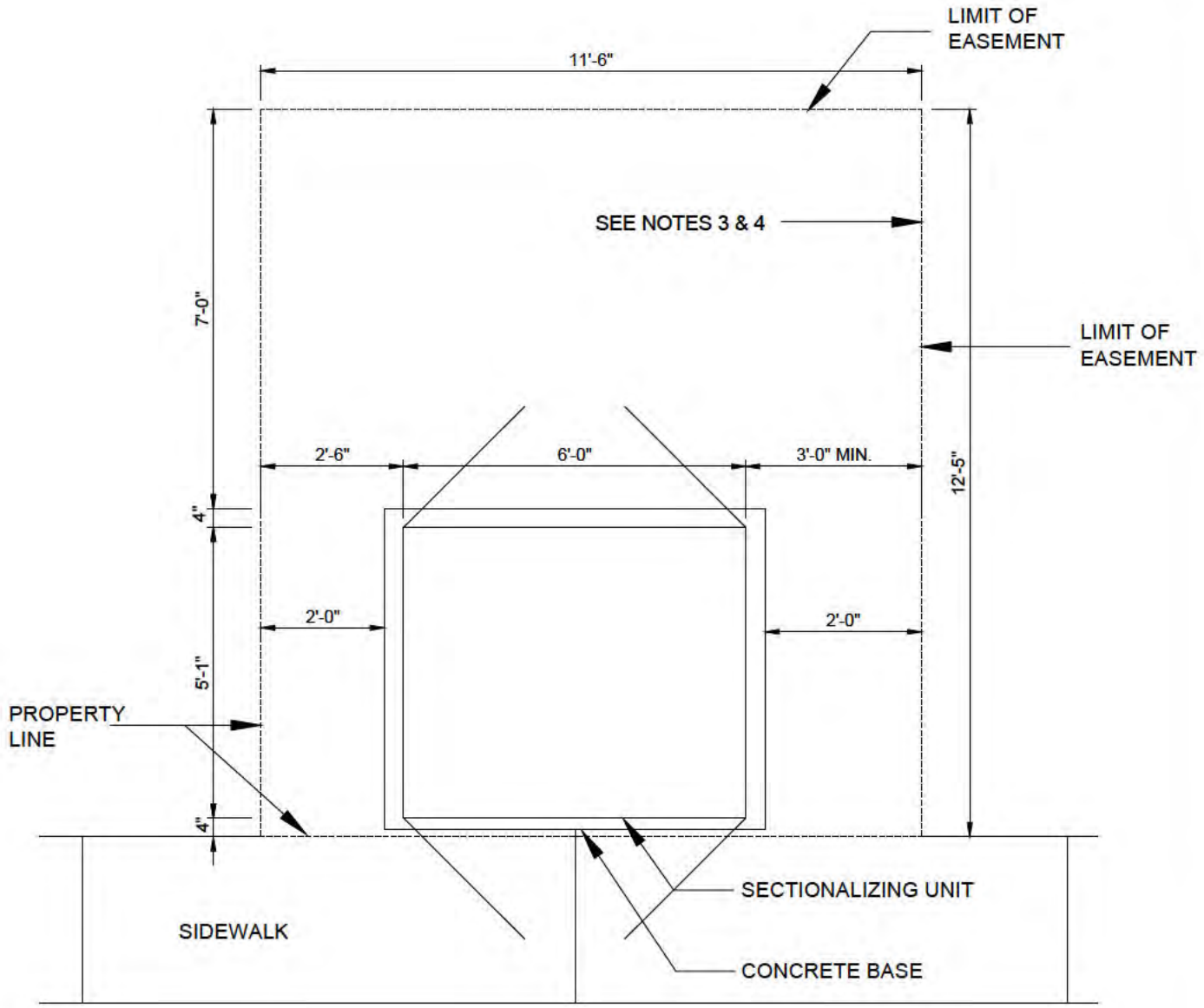
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

LOCATION OF SECTIONALIZING UNITS
INSTALLED ON PRIVATE RESIDENTIAL PROPERTIES

STANDARD NO. -URD-16 REV -2
PAGE - DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
APPROVED
DIGITIZED



GRASS AREA

STREET

NOTES:

1 - LOCATE SECTIONALIZING UNIT BASE 2 FEET FROM THE LOT'S PROPERTY LINE.

2 - FOR ESTABLISHED RULES ON EASEMENTS, REFER TO PREPA'S EASEMENT REGULATIONS.

3 - IN THE CASE A FENCE IS TO BE BUILT AT THE EASEMENT LIMIT, IT SHOULD BLEND WITH THE EXISTING SURROUNDINGS, OBSERVING SIMILAR ALIGNMENT CONDITIONS, HEIGHT, BUILDING MATERIALS AND PAINT. THE FENCE SHOULD BE PAINTED IN A COLOR THAT ALLOWS IT TO BLEND WITH ITS SURROUNDINGS SO THAT IT DOES NOT STAND OUT.

PUERTO RICO ELECTRIC POWER AUTHORITY

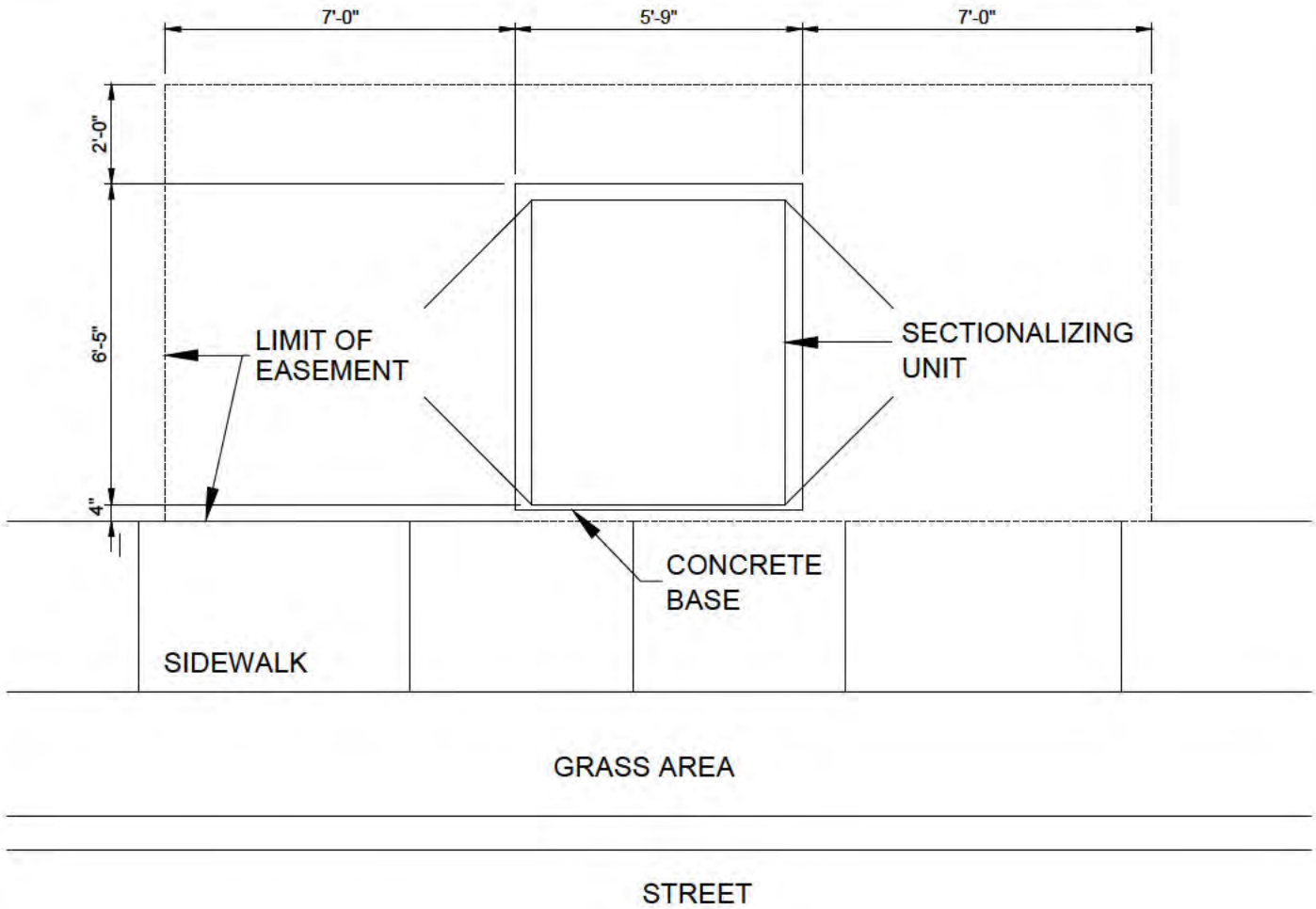
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

LOCATION OF SECTIONALIZING UNITS
INSTALLED ON PRIVATE RESIDENTIAL PROPERTIES

STANDARD NO. -URD-17 REV -3
PAGE - DATE -
REVIEWED -
SUBMITTED -
RECOMMENDED
APPROVED
DIGITIZED



NOTES:

1 - LOCATE SECTIONALIZING UNIT BASE 2 FEET FROM THE LOT'S PROPERTY LINE.

2 - FOR ESTABLISHED RULES ON EASEMENTS, REFER TO PREPA'S EASEMENT REGULATIONS.

3 - IN THE CASE A FENCE IS TO BE BUILT AT THE EASEMENT LIMIT, IT SHOULD BLEND WITH THE EXISTING SURROUNDINGS, OBSERVING SIMILAR ALIGNMENT CONDITIONS, HEIGHT, BUILDING MATERIALS AND PAINT. THE FENCE SHOULD BE PAINTED IN A COLOR THAT ALLOWS IT TO BLEND WITH ITS SURROUNDINGS SO THAT IT DOES NOT STAND OUT.

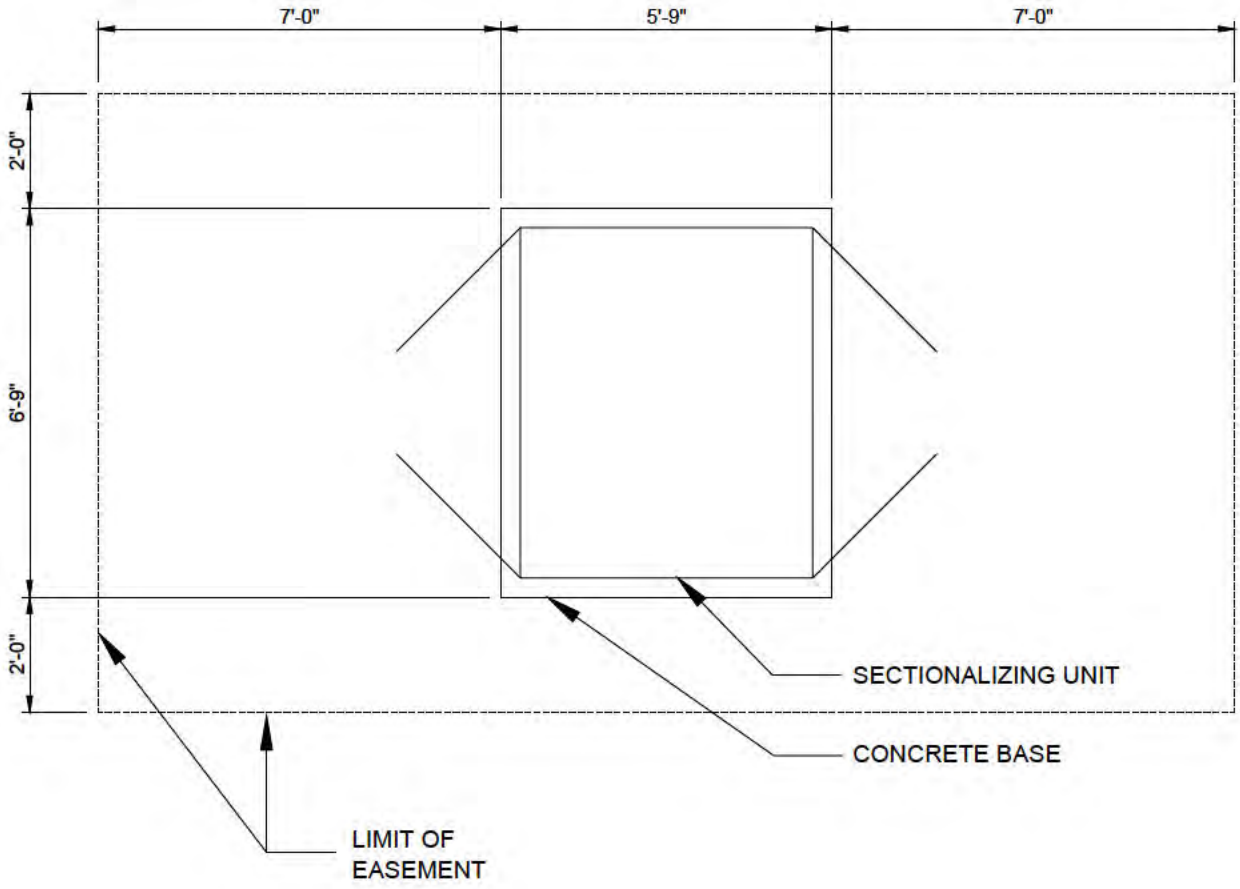
4 - THE FENCE MUST ALLOW ACCESS TO PREPA'S STAFF WITH ITS NECESSARY TOOLS AND EQUIPMENT FOR THE OPERATION AND MAINTENANCE OF THE SECTIONALIZING UNIT.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. - URD-18 REV -4
PLACEMENT OF SECTIONALIZING UNIT INSTALLED ON PUBLIC PROPERTY	PAGE - DATE - REVIEWED - SUBMITTED - RECOMMENDED APPROVED DIGITIZED



NOTES:

1 - FOR ESTABLISHED RULES ON EASEMENTS, REFER TO PREPA'S EASEMENT REGULATIONS.

2 - THE SECTIONLIZER SHALL BE PLACED TO PROVIDE CLEAR SPACE TO PERMIT ACCESS TO PREPA'S STAFF TO PROVIDE FOR OPERATION AND MAINTENTANCE

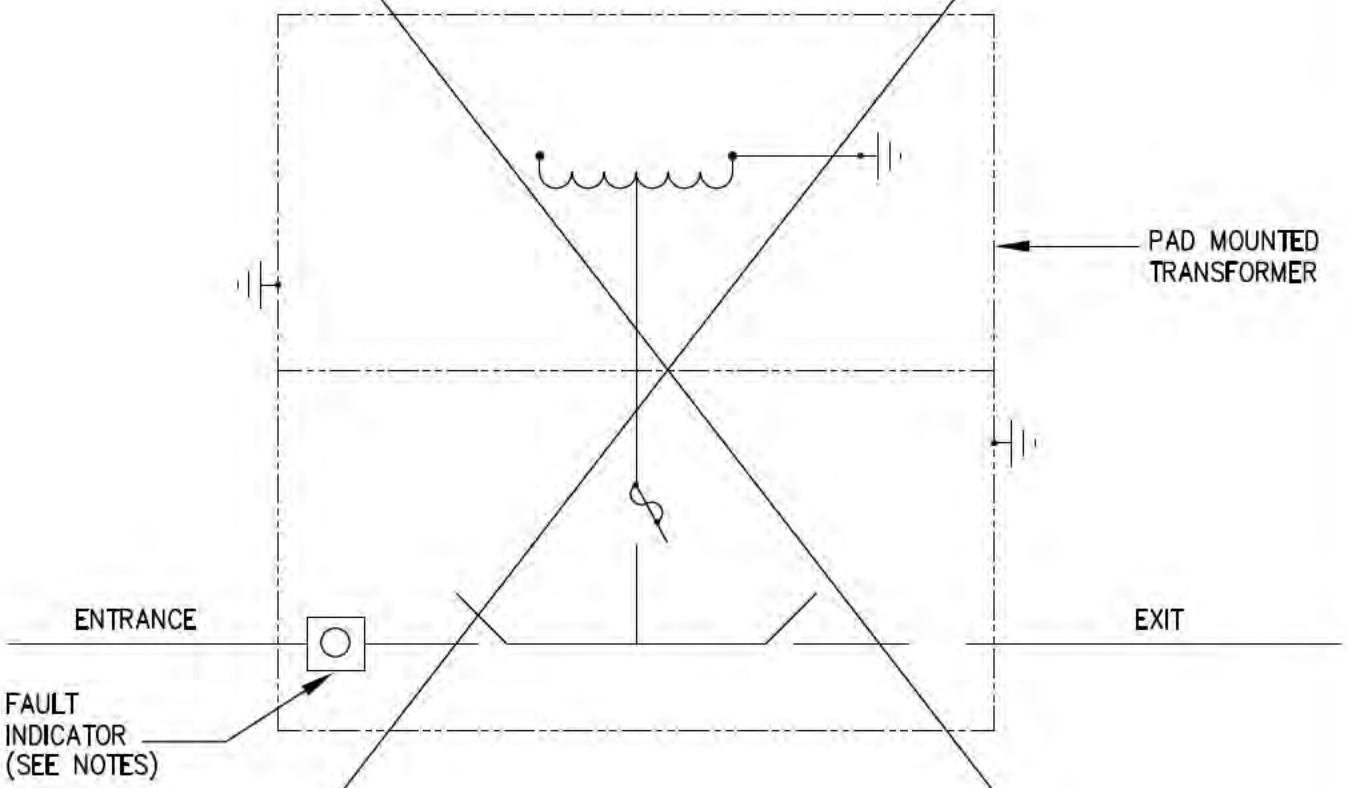
PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-19 REV 0
ONE-LINE DIAGRAM FOR DEAD-FRONT TYPE PAD MOUNTED TRANSFORMER	PAGE _____ DATE _____ REVIEWED _____ SUBMITTED _____ RECOMMENDED _____ APPROVED _____ DIGITIZED _____

VOID



ONE-LINE DIAGRAM

NOTE:

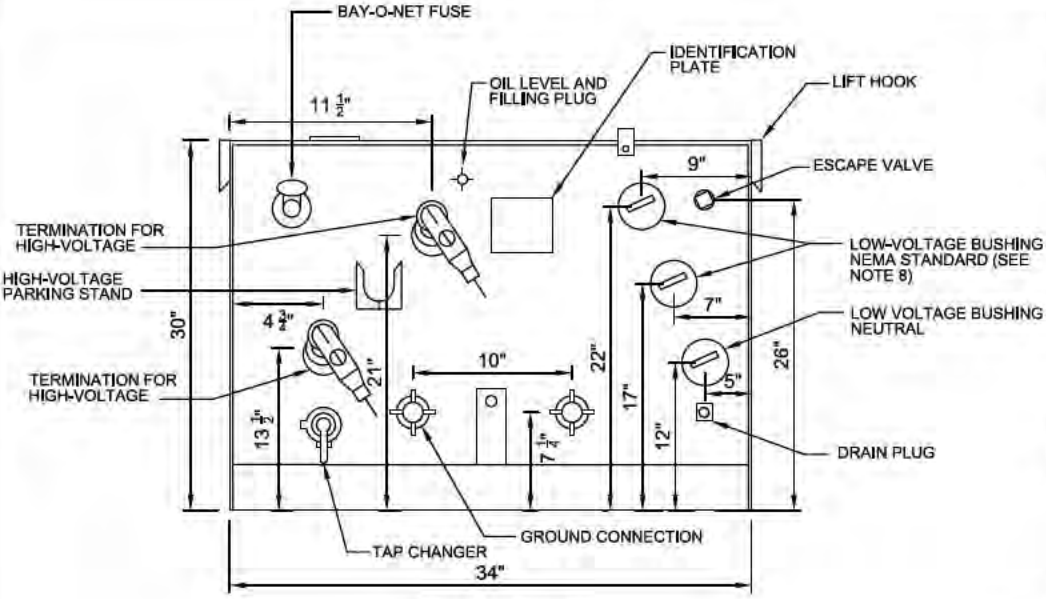
1 – A FAULT INDICATOR IS TO BE INSTALLED FOR EACH STRETCH OF LINE.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

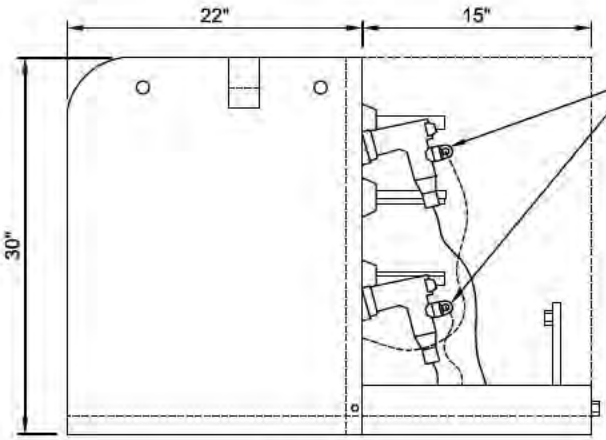
TITLE:	
DEAD-FRONT PADMOUNT TRANSFORMER MOUNTED ON CONCRETE	STANDARD NO. URD-20 REV 0 PAGE ____ DATE ____ REVIEWED ____ SUBMITTED ____ RECOMMENDED ____ APPROVED ____ DIGITIZED ____



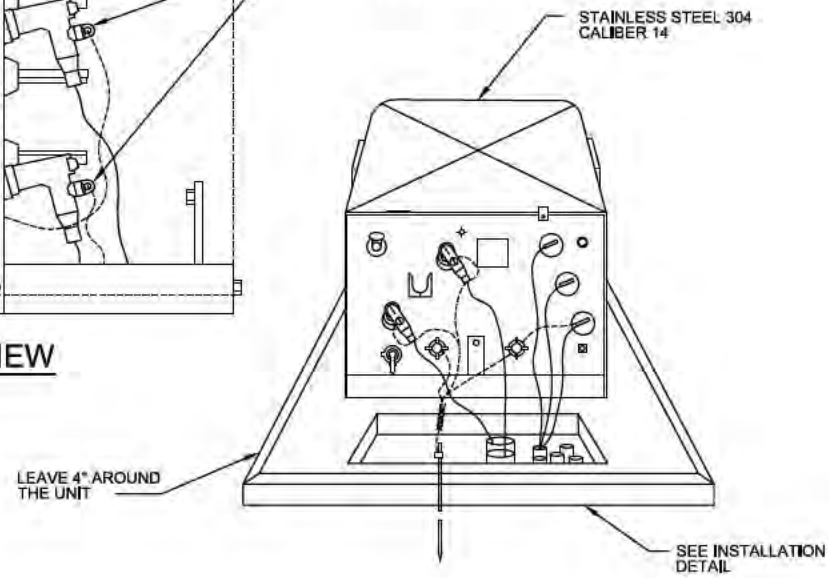
FRONT VIEW

NOTES:

1 - ALL TRANSFORMERS MUST HAVE A CONTACT PLUG AND DEAD FRONT RECEPTACLE.
2 - THE POSITION OF THE BAY-O-NET FUSE AND THE TAP CHANGER MUST BE DETERMINED BY THE MANUFACTURER WITH PRIOR COORDINATION WITH PREPA.
3 - GROUND TERMINALS MUST BE WELDED OR SECURED WITH A 1/2" SCREW AND BELLEVILLE WASHERS.
4 - RE-ARRANGEMENT OF TERMINALS FOR LOAD OPERATION SHOULD BE COORDINATED WITH PREPA.
5 - ALL DIMENSIONS SHOWN ARE MINIMUM.
6 - THE DOORS MUST BE OPENED UPWARDS WITH A MINIMUM ANGLE OF 180° OR THEY MUST BE COMPLETELY REMOVED. FOR DIMENSIONS SEE DESIGN OF THE TRANSFORMER FROM THE MANUFACTURER.
7 - FOR THE CONSTRUCTION AND INSTALLATION OF THE BASE SEE STANDARD URD-23.
8 - SECONDARY AND NEUTRAL BUSHINGS SHOULD BE PROVIDED WITH A SIX-POSITION TRANSFORMER CONNECTION BAR WITH A SET OF PREPA-APPROVED HEXAGONAL SCREWS.
9 - THE NEUTRAL BAR SHOULD BE CONNECTED SOLIDLY TO THE GROUND ROD.
10 - 200 AMP LOAD BREAK ELBOW CONNECTORS SHALL INCORPORATE COPPER INSERTS, NOT ALUMINUM INSERTS.
11 - BONDING SHOULD BE PROVIDED BETWEEN ALL ABOVE GROUND METALLIC SUPPLY OR COMMUNICATION ENCLOSURES SEPARATED BY 6' OR LESS. SEE NESC 384 FOR MORE DETAILS.



SIDE VIEW

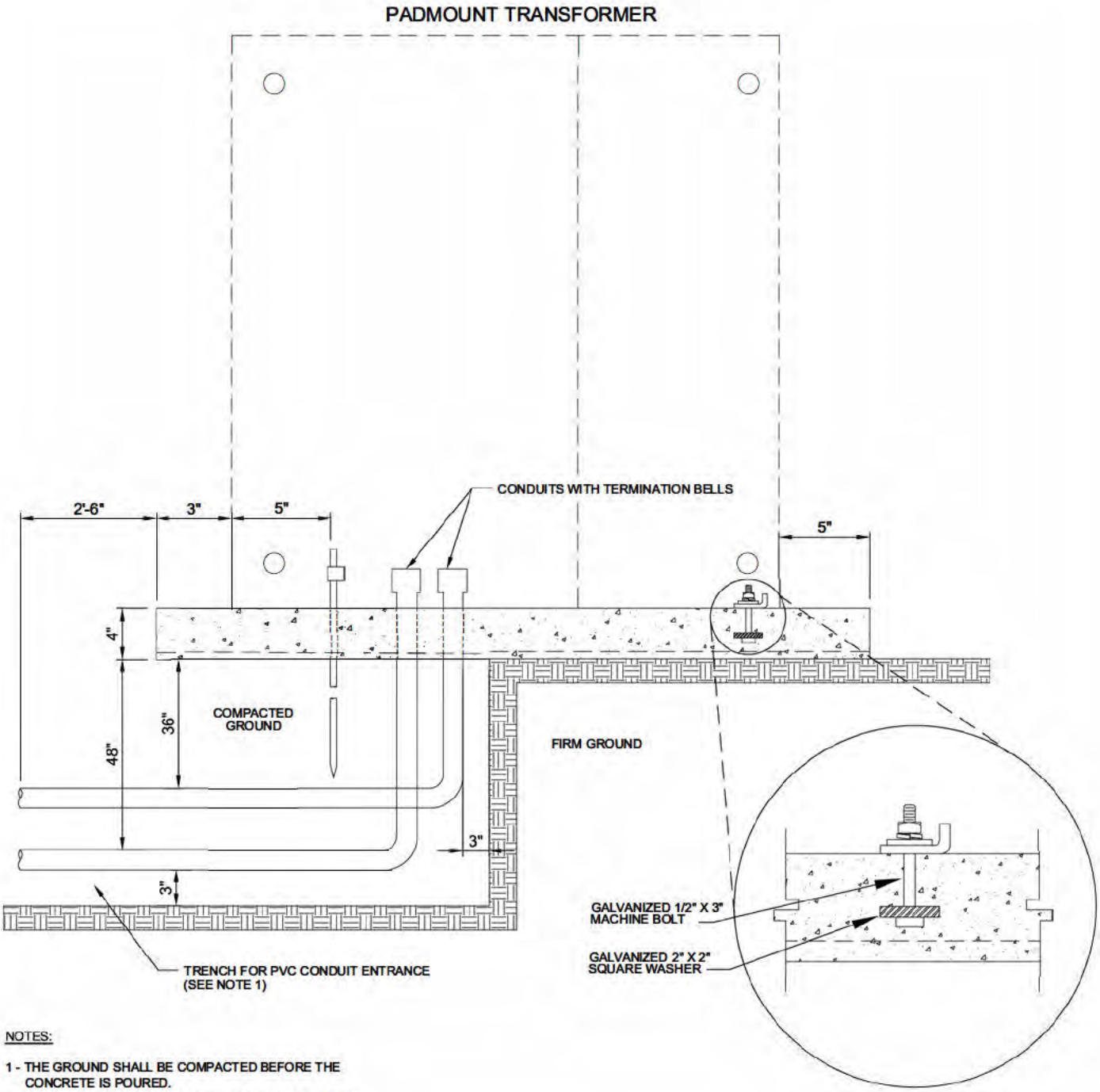


PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO URD-21 REV 0
CONCRETE BASE AND PADMOUNT TRANSFORMER FOUNDATIONS	PAGE _____ DATE _____
	REVIEWED _____
	SUBMITTED _____
	RECOMMENDED _____
	APPROVED _____
	DIGITIZED _____



NOTES:

1 - THE GROUND SHALL BE COMPACTED BEFORE THE CONCRETE IS POURED.

2 - REFER TO PREPA STANDARD URD 22 FOR CONCRETE BASE CONSTRUCTION DETAILS.

PUERTO RICO ELECTRIC POWER AUTHORITY

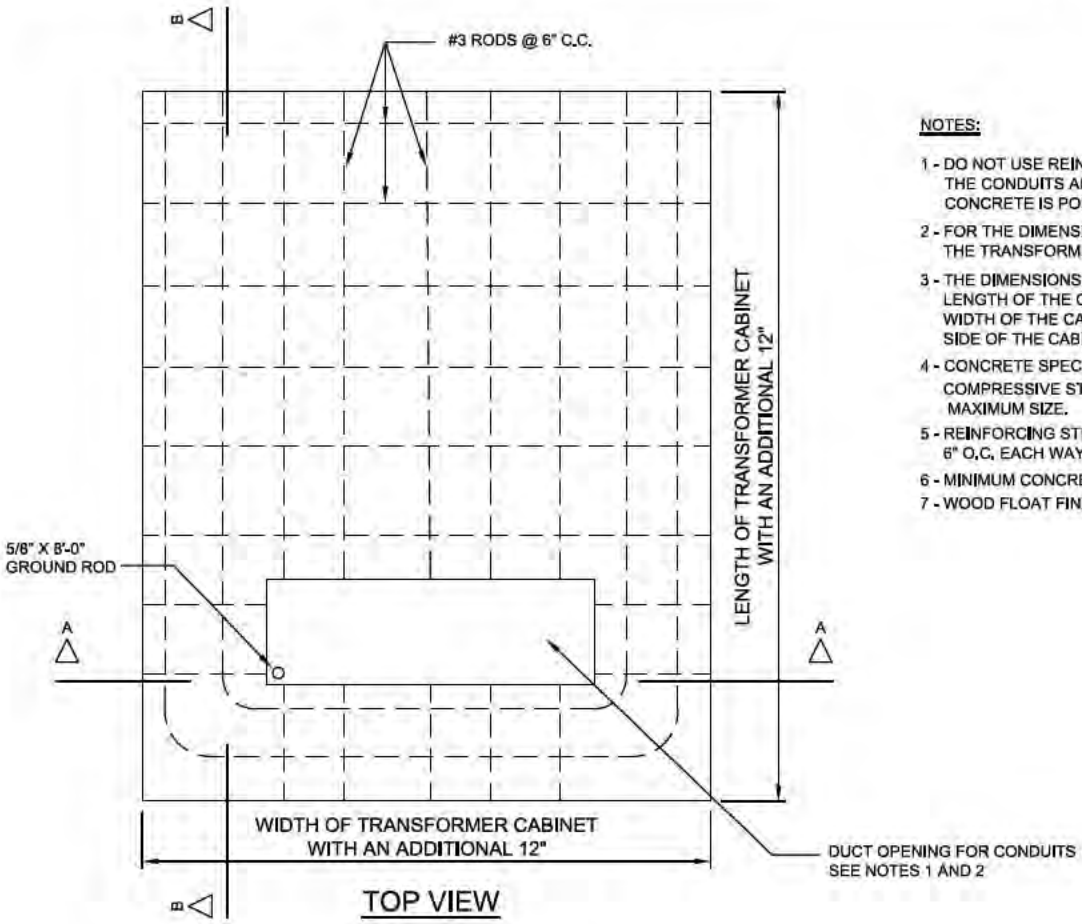
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

CONCRETE BASE FOR PADMOUNT TRANSFORMERS

STANDARD NO. URD-22 REV 0
PAGE _____ DATE _____
REVIEWED _____
SUBMITTED _____
RECOMMENDED _____
APPROVED _____
DIGITIZED _____



TOP VIEW

NOTES:

1 - DO NOT USE REINFORCING RODS IN THIS AREA. INSTALL THE CONDUITS AND TERMINATIONS BELLS BEFORE THE CONCRETE IS POURED.

2 - FOR THE DIMENSIONS OF THE DUCT OPENING, FOLLOW THE TRANSFORMER MANUFACTURER'S INSTRUCTIONS.

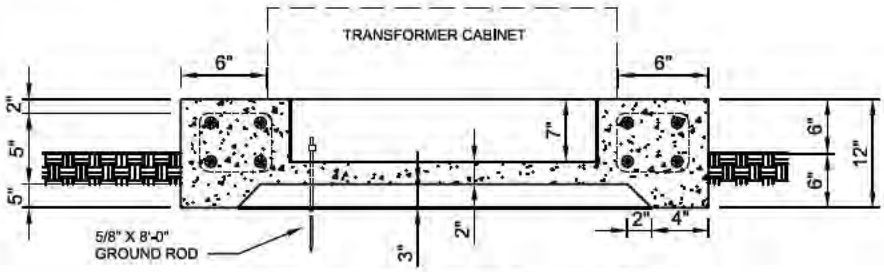
3 - THE DIMENSIONS OF THE CONCRETE BASE SHALL BE THE LENGTH OF THE CONCRETE CABINET PLUS 12" AND THE WIDTH OF THE CABINET PLUS 12", LEAVING 6" ON EACH SIDE OF THE CABINET.

4 - CONCRETE SPECIFICATIONS, MINIMUM 28 DAYS COMPRESSIVE STRENGTH - 4,000 PSI, $\frac{3}{4}$" AGGREGATE MAXIMUM SIZE.

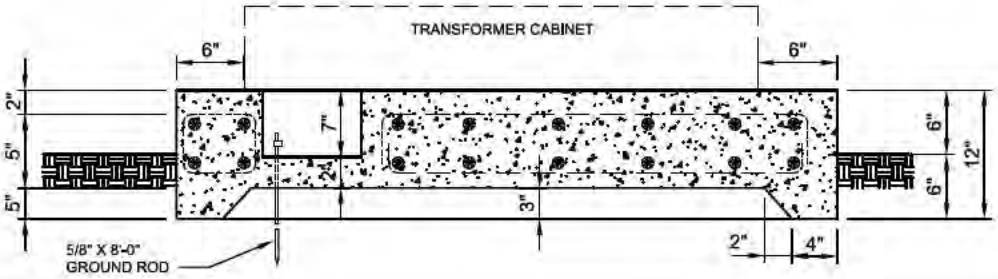
5 - REINFORCING STEEL, ASTM-A615, GRADE 60, PLACED 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.

6 - MINIMUM CONCRETE COVER OVER REINFORCING RODS 2".

7 - WOOD FLOAT FINISH LEAVING NO DEPRESSIONS.



SECTION "A-A"



SECTION "B-B"

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

CONCRETE BASE FOR DEAD-FRONT PADMOUNT TRANSFORMER

STANDARD NO. URD-23 REV 0
PAGE _____ DATE _____
REVIEWED _____
SUBMITTED _____
RECOMMENDED _____
APPROVED _____
DIGITIZED _____

NOTES:

1 - THE QUANTITY AND SIZE OF PVC CONDUIT FOR SECONDARY CIRCUITS SHOULD BE COORDINATED WITH PREPA ACCORDING TO THE NUMBER OF SECONDARY SERVICES AND THE SIZE OF THE CONDUCTOR TO BE USED.

2 - THE BASE SHALL BE ON FIRM GROUND ACCORDING TO STANDARD URD-21.

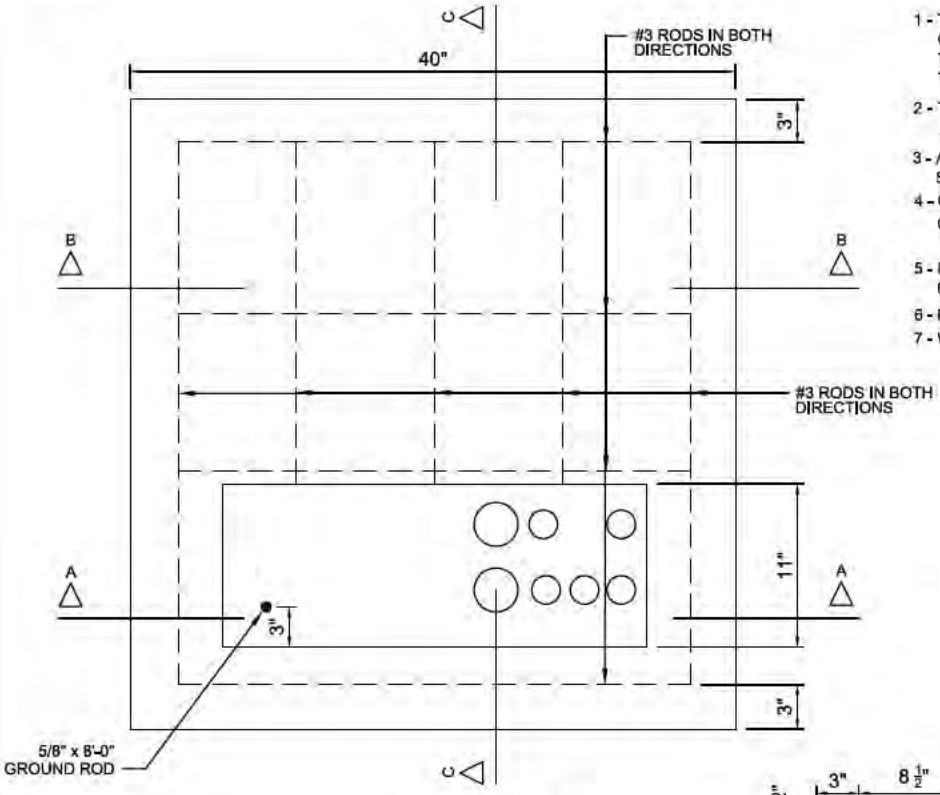
3 - ADDITIONAL REINFORCEMENT WILL BE PROVIDED TO THE BASE SHOE WHEN IT IS INSTALLED ON WEAK GROUND.

4 - CONCRETE SPECIFICATIONS, MINIMUM 28 DAYS COMPRESSIVE STRENGTH - 4,000 PSI, $\frac{3}{4}$" AGGREGATE MAXIMUM SIZE.

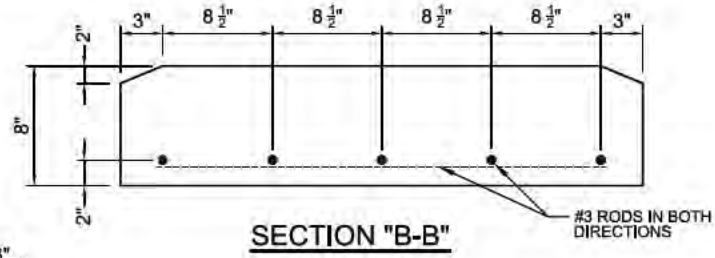
5 - REINFORCING STEEL, ASTM-A615, GRADE 60, PLACED 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.

6 - MINIMUM CONCRETE COVER OVER REINFORCING RODS 2".

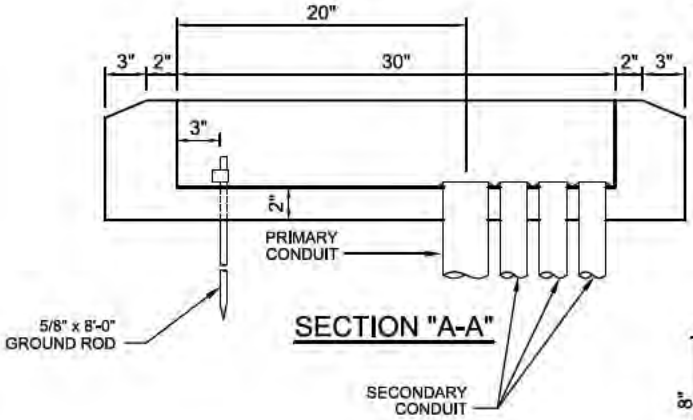
7 - WOOD FLOAT FINISH LEAVING NO DEPRESSIONS.



FLOOR VIEW

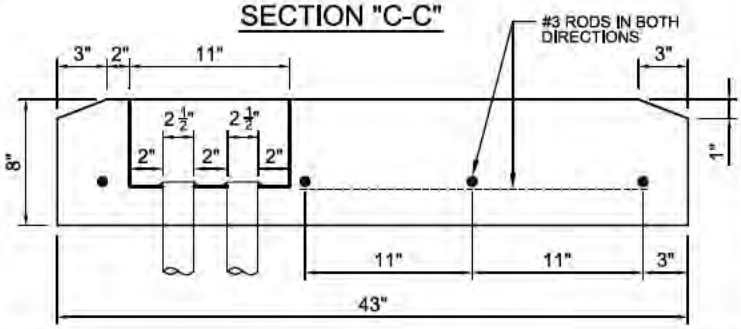


SECTION "B-B"



SECTION "A-A"

SECTION "C-C"

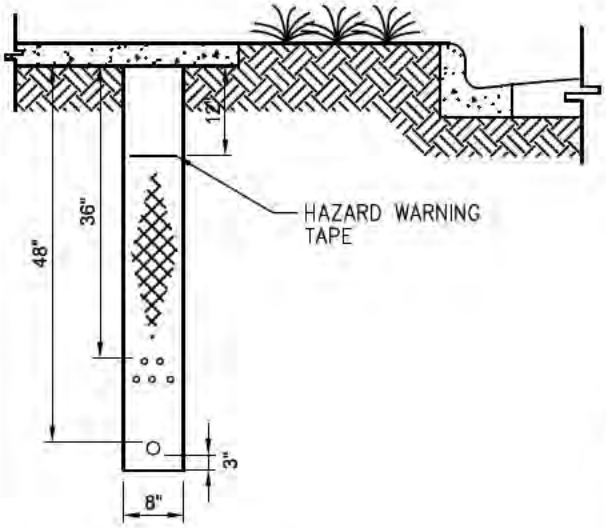


PUERTO RICO ELECTRIC POWER AUTHORITY

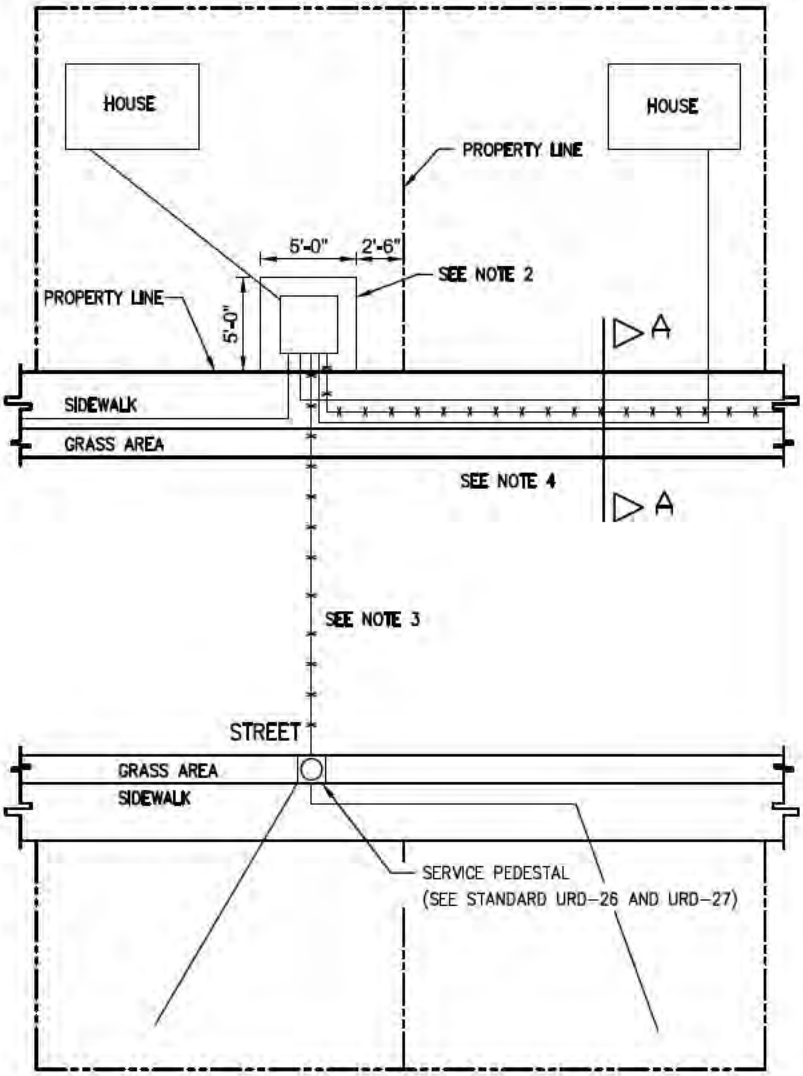
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
INSTALLATION DETAILS FOR ENTRANCE AND EXIT LINES TO PAD MOUNTED TRANSFORMER LOCATED ON PRIVATE PROPERTY	STANDARD NO. URD-24 REV 0 PAGE ____ DATE ____ REVIEWED ____ SUBMITTED ____ RECOMMENDED ____ APPROVED ____ DIGITIZED ____



SECTION "A-A"



NOTES:

1- THE SAME TRENCH CAN BE USED FOR PRIMARY, SECONDARY AND PUBLIC STREET LIGHTING CONDUIT. SEE STANDARD URD-7 FOR TRENCH DETAILS.

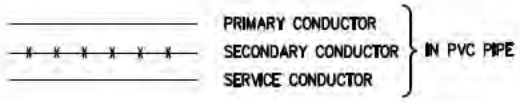
2- THE CONTRACTOR HAS TO COORDINATE THE LOCATION OF THE TRANSFORMERS WITH THE PROJECT DESIGNERS TO AVOID PROBLEMS WITH DRIVEWAYS.

3- AT STREET CROSSINGS, THE CONDUIT WILL BE INSTALLED ENCASED IN CONCRETE.

4- THIS DIAGRAM IS FOR ILLUSTRATIVE PURPOSES ONLY. THE LINES WILL BE INSTALLED IN ACCORDANCE WITH PROVISIONS OF THE INFRASTRUCTURE MANAGEMENT REGULATION IN PUBLIC SPACE. (SEE APPENDICES 9, 10 AND 11)

5- LOCATE THE PADMOUNT TRANSFORMER, PEDESTALS OR ANY OTHER ABOVE GROUND EQUIPMENT A MINIMUM OF 4' AWAY FROM FIRE HYDRANTS.

6 - BONDING SHOULD BE PROVIDED BETWEEN ALL ABOVE GROUND METALLIC SUPPLY OR COMMUNICATION ENCLOSURES SEPARATED BY 6' OR LESS. SEE NESC 384 FOR MORE DETAILS.

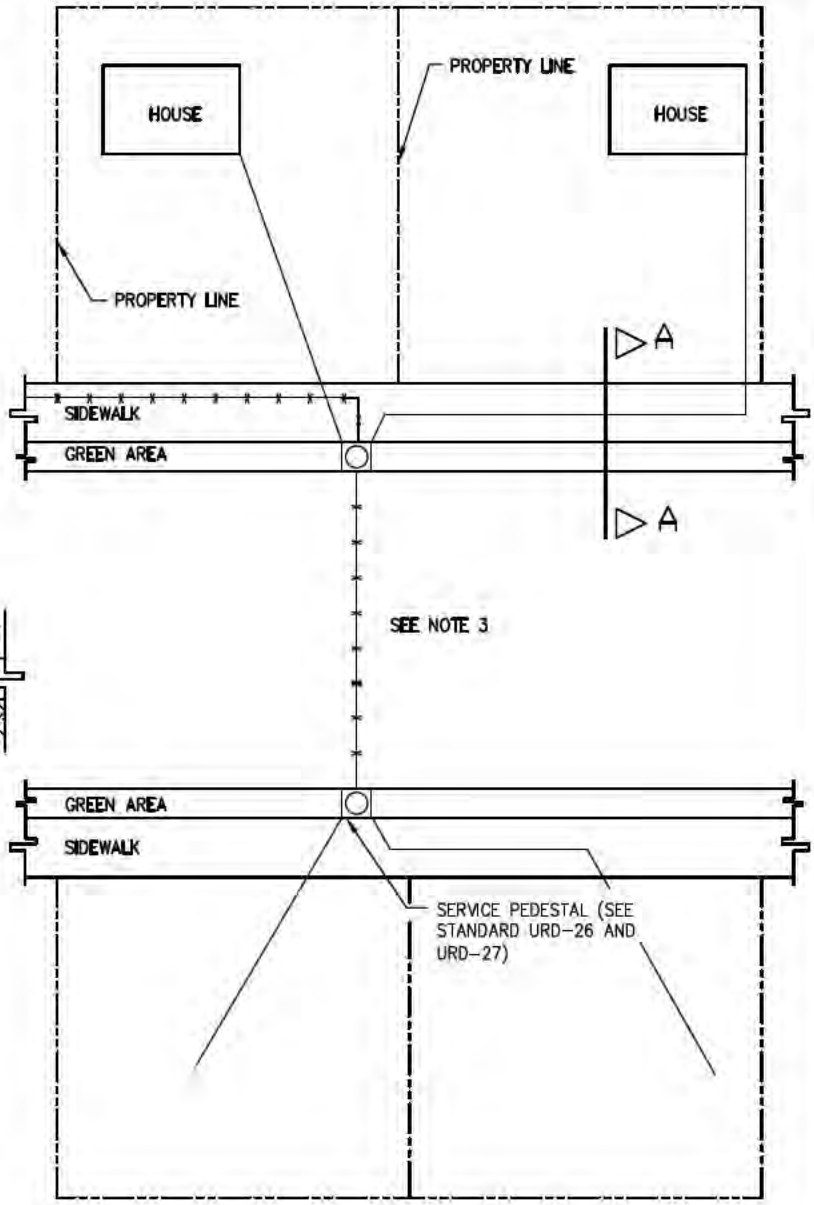


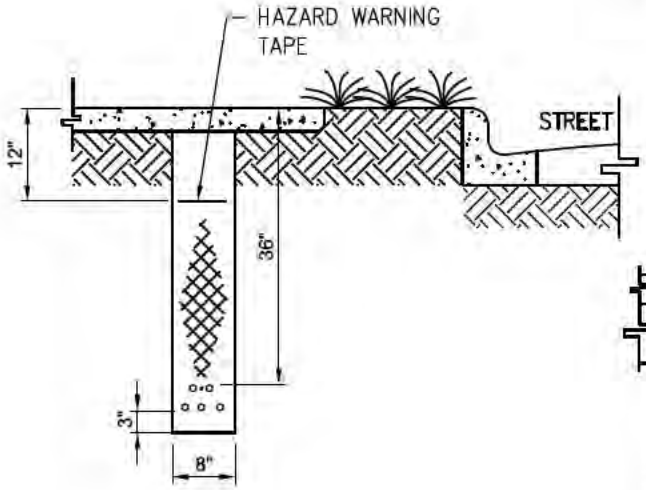
PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-25 REV 0
INSTALLATION DETAILS FOR ENTRANCE AND EXIT LINES TO SERVICE PEDESTAL LOCATED IN THE GREEN AREA IN FRONT OF SIDEWALK	PAGE ____ DATE ____ REVIEWED ____ SUBMITTED ____ RECOMMENDED ____ APPROVED ____ DIGITIZED ____





SECTION "A-A"

NOTES:

1- SERVICE CONDUCTORS SHOULD NOT CROSS THE STREET, STREET CROSSINGS SHOULD BE DONE WITH SECONDARY CONDUCTOR FROM PEDESTAL TO PEDESTAL.

2- THE LOCATION OF THE SERVICE PEDESTAL SHOULD BE COORDINATED WITH THE DESIGNER.

3- AT STREET CROSSINGS, THE CONDUIT WILL BE INSTALLED WITH A CONCRETE ENCASING.

4- THIS DIAGRAM IS FOR ILLUSTRATIVE PURPOSES ONLY. THE LINES WILL BE INSTALLED IN ACCORDANCE WITH PROVISIONS OF THE INFRASTRUCTURE MANAGEMENT REGULATION IN PUBLIC SPACE. (SEE APPENDICES 9, 10 AND 11)

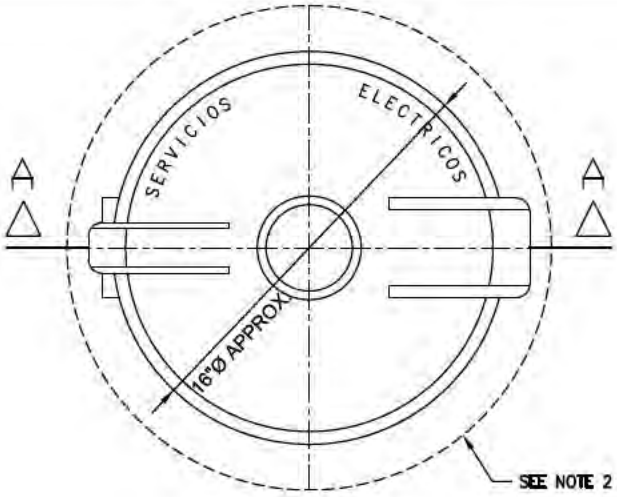
SECONDARY CONDUCTOR } IN PVC PIPE
SERVICE CONDUCTOR }

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-26 REV 0
DOME-SHAPED SERVICE PEDESTAL	PAGE ____ DATE ____
	REVIEWED ____
	SUBMITTED ____
	RECOMMENDED ____
	APPROVED ____
	DIGITIZED ____



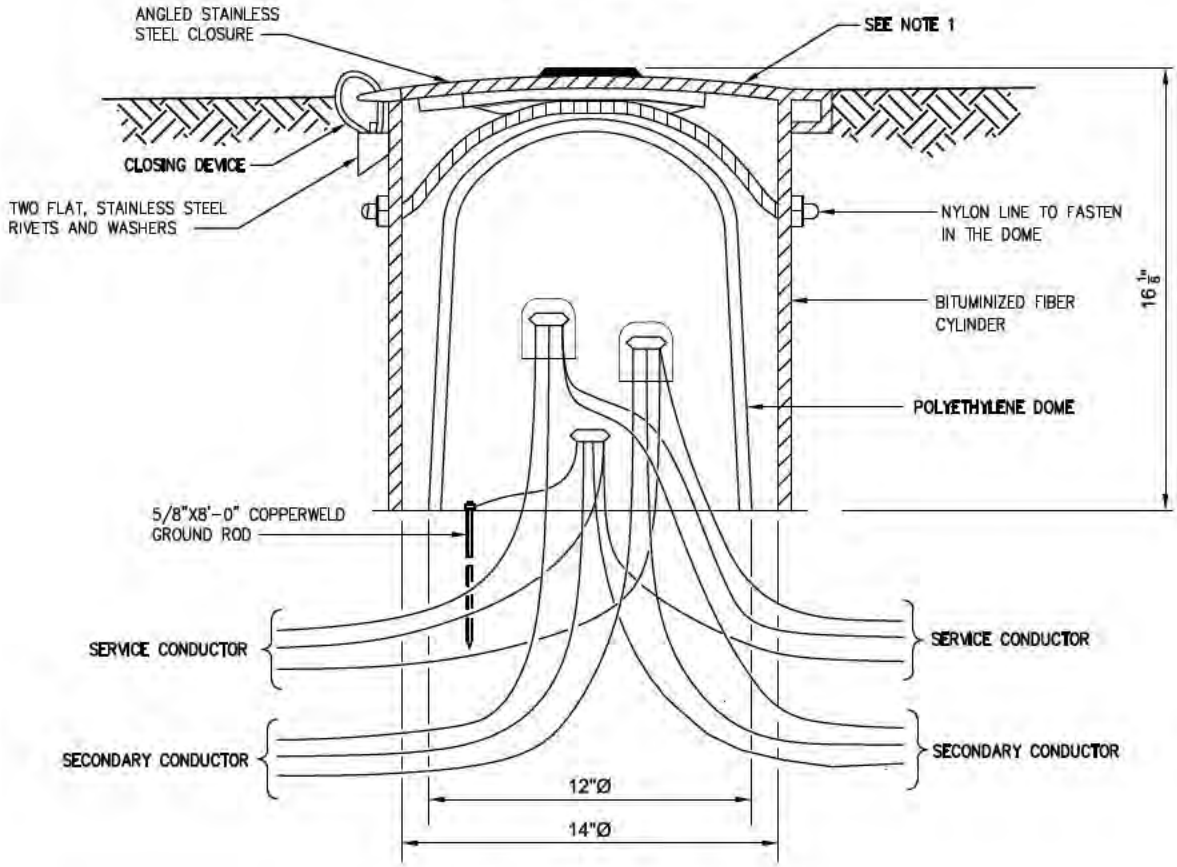
GROUND VIEW

NOTES:

1- THE INSTALLATION OF PEDESTALS WITHIN THE LOTS WILL BE COORDINATED WITH PREPA AND SHOULD BE PLACED BETWEEN 2" AND 6" ABOVE THE FINAL GRADE OF THE GROUND.

2- PEDESTALS LOCATED IN GREEN AREAS OR PUBLIC AREAS WILL BE INSTALLED IN A CONCRETE PROTECTIVE FRAME ACCORDING TO STANDARD URD-28.

3- ALL SERVICE CONDUCTORS WILL BE INSTALLED IN PVC CONDUIT. THE DIAMETER OF THE CONDUIT DEPENDS ON THE SIZE OF THE CONDUCTOR.



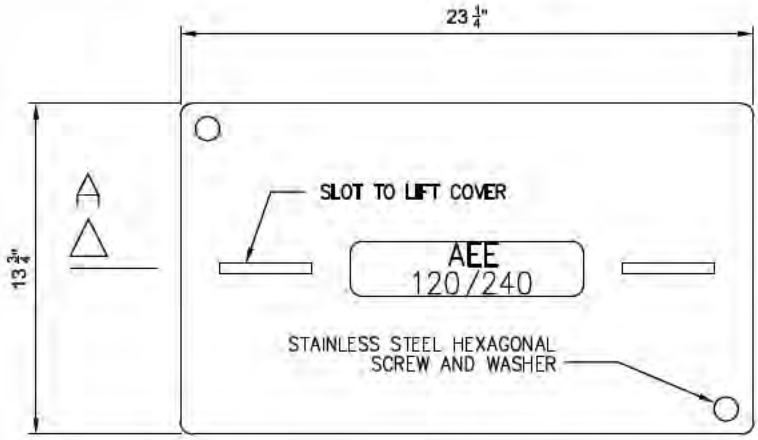
SECTION "A-A"

PUERTO RICO ELECTRIC POWER AUTHORITY

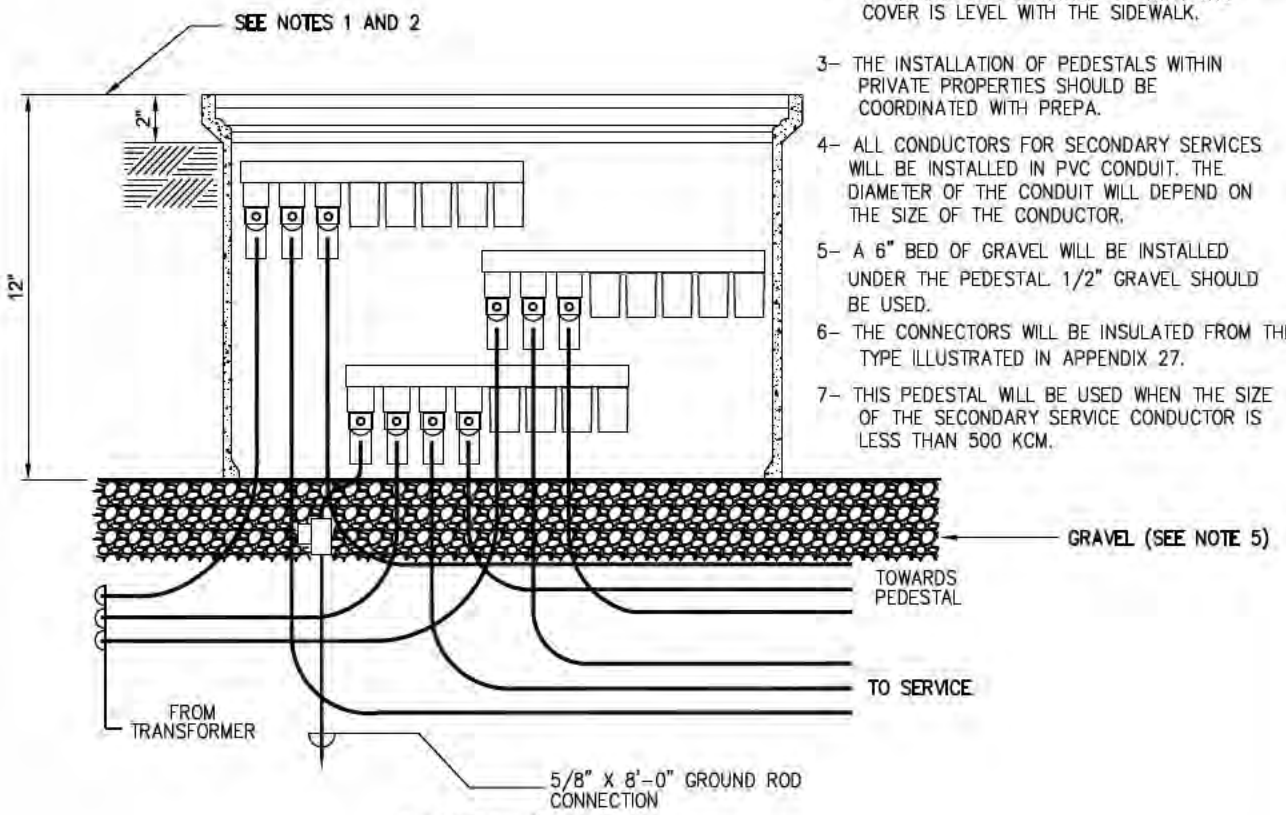
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
SERVICE PEDESTAL 13" X 24"	STANDARD NO. URD-27A REV 0 PAGE ____ DATE ____ REVIEWED ____ SUBMITTED ____ RECOMMENDED ____ APPROVED ____ DIGITIZED ____



TOP VIEW



SECTION "A-A"

NOTES:

1- THE INSTALLATION OF PEDESTALS WILL BE IN THE GRASS AREA AT 2" ABOVE THE FINAL GRADE OF THE GROUND. IF IT IS ACCESSIBLE TO VEHICULAR TRAFFIC, A CONCRETE PROTECTION SHOULD BE USED, REFER TO URD-28A FOR MORE DETAILS.

2- PEDESTALS CAN BE INSTALLED IN THE SIDEWALK. IT SHOULD BE POSITIONED SO THAT THE COVER IS LEVEL WITH THE SIDEWALK.

3- THE INSTALLATION OF PEDESTALS WITHIN PRIVATE PROPERTIES SHOULD BE COORDINATED WITH PREPA.

4- ALL CONDUCTORS FOR SECONDARY SERVICES WILL BE INSTALLED IN PVC CONDUIT. THE DIAMETER OF THE CONDUIT WILL DEPEND ON THE SIZE OF THE CONDUCTOR.

5- A 6" BED OF GRAVEL WILL BE INSTALLED UNDER THE PEDESTAL. 1/2" GRAVEL SHOULD BE USED.

6- THE CONNECTORS WILL BE INSULATED FROM THE TYPE ILLUSTRATED IN APPENDIX 27.

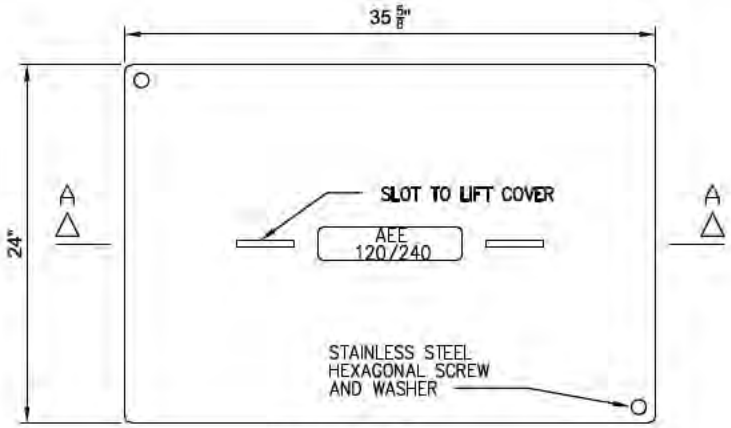
7- THIS PEDESTAL WILL BE USED WHEN THE SIZE OF THE SECONDARY SERVICE CONDUCTOR IS LESS THAN 500 KCM.

PUERTO RICO ELECTRIC POWER AUTHORITY

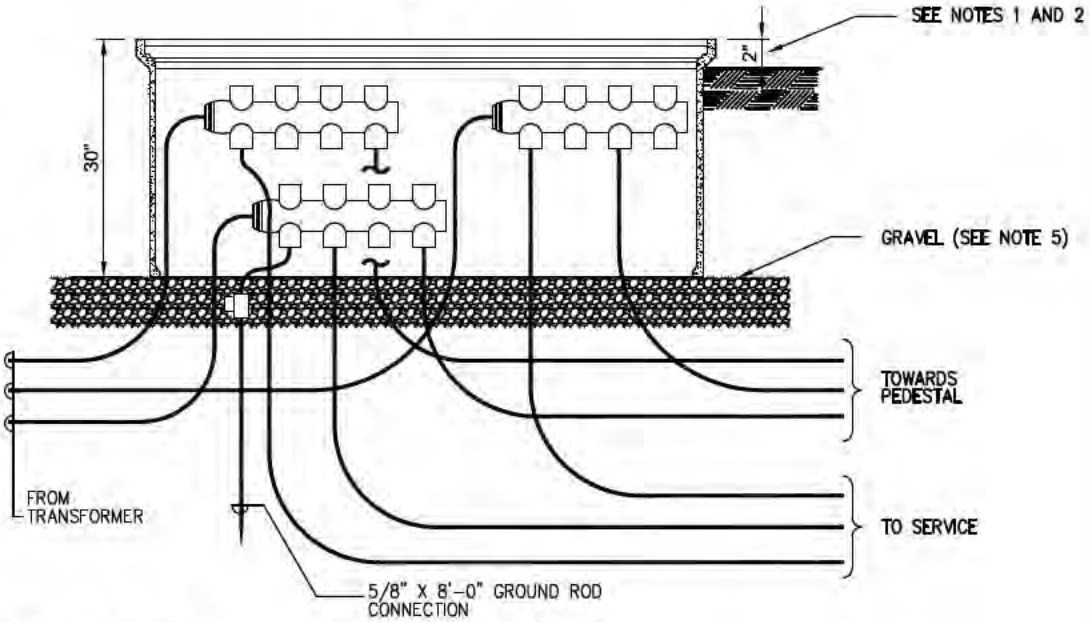
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
SERVICE PEDESTAL 24" X 36"	STANDARD NO. URD-27B REV 0 PAGE _____ DATE _____ REVIEWED _____ SUBMITTED _____ RECOMMENDED _____ APPROVED _____ DIGITIZED _____



TOP VIEW



SECTION "A-A"

NOTES:

1- THE INSTALLATION OF PEDESTALS WILL BE IN THE GRASS AREA AT 2" ABOVE THE FINAL GRADE OF THE GROUND. IF IT IS ACCESSIBLE TO VEHICULAR TRAFFIC, A CONCRETE PROTECTION SHOULD BE USED, REFER TO URD-28A FOR MORE DETAILS.

2- PEDESTALS CAN BE INSTALLED IN THE SIDEWALK. IT SHOULD BE POSITIONED SO THAT THE COVER IS LEVEL WITH THE SIDEWALK.

3- THE INSTALLATION OF PEDESTALS WITHIN PRIVATE PROPERTIES SHOULD BE COORDINATED WITH PREPA.

4- ALL CONDUCTORS FOR SECONDARY SERVICES WILL BE INSTALLED IN PVC CONDUIT. THE DIAMETER OF THE CONDUIT WILL DEPEND ON THE SIZE OF THE CONDUCTOR.

5- A 6" BED OF GRAVEL WILL BE INSTALLED UNDER THE PEDESTAL. 1/2" GRAVEL SHOULD BE USED.

6- THE CONNECTORS WILL BE THE SAME OR SIMILAR TO THE BURNDY ZMT MODEL WITH A MAXIMUM OF 9 OUTPUTS.

7- THIS PEDESTAL WILL BE USED WHEN THE SIZE OF THE SECONDARY SERVICE CONDUCTOR IS GREATER THAN 500 KCM.

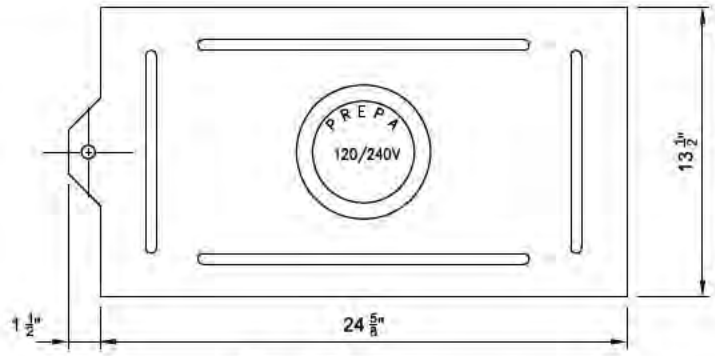
8- THE SIZE OF THE CONDUCTOR FROM THE TRANSFORMER TO THE PEDESTAL WILL BE 1000 KCM OR LESS AND THE CONDUCTOR FROM THE PEDESTAL TO ANOTHER PEDESTAL OR SOCKET WILL BE 500 KCM OR LESS.

PUERTO RICO ELECTRIC POWER AUTHORITY

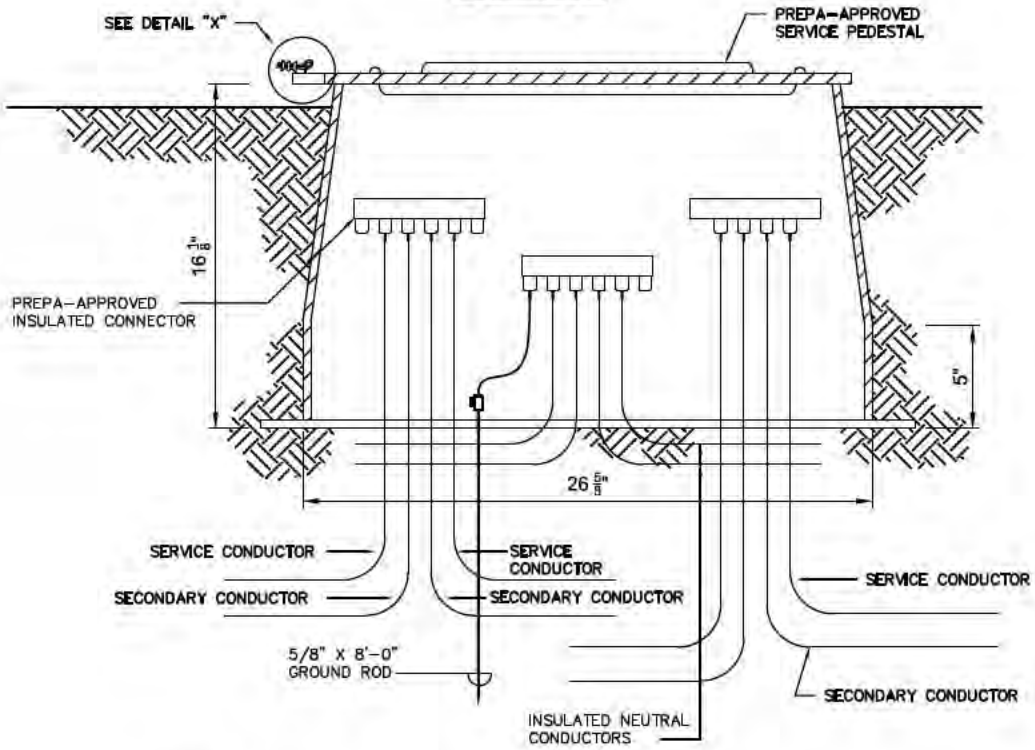
DISTRIBUTION SYSTEM

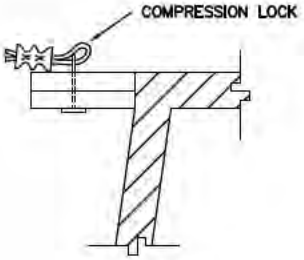
UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-27 REV 0
RECTANGULAR SERVICE PEDESTAL	PAGE ____ DATE ____
	REVIEWED ____
	SUBMITTED ____
	RECOMMENDED ____
	APPROVED ____
	DIGITIZED ____



TOP VIEW





DETAIL "X"

NOTES:

1 – THIS PEDESTAL WILL BE USED WHEN THE SIZE OF SECONDARY CONDUCTORS IS GREATER THAN 4/0 AWG.

2 – CONNECTORS WILL BE OF THE INDICATED TYPE.

3 – NEUTRAL CONNECTORS WILL BE INSULATED.

4 – ALL SECONDARY SERVICES WILL BE INSTALLED IN PVC CONDUIT. THE DIAMETER OF THE CONDUIT WILL DEPEND ON THE SIZE OF THE CONDUCTOR.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

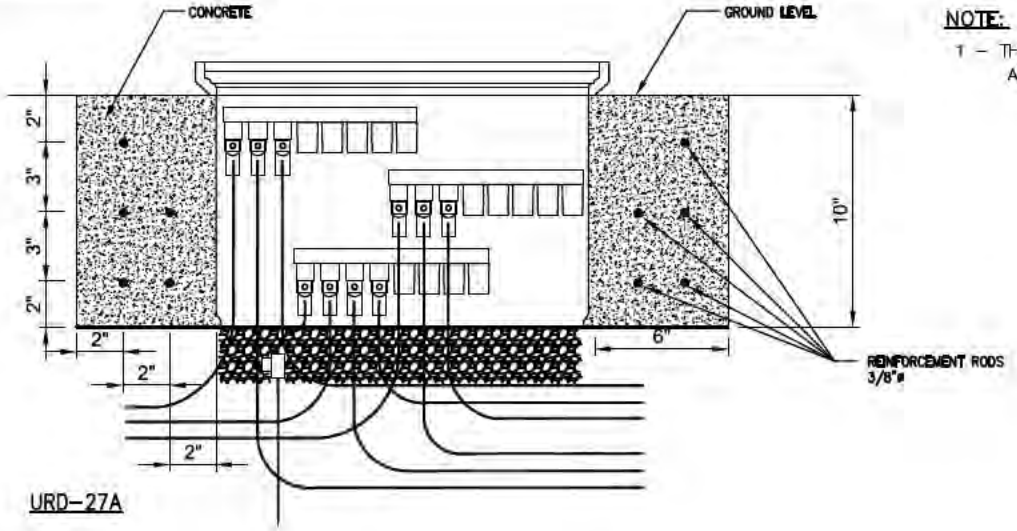
TITLE:

CONCRETE PROTECTION FOR SECONDARY PEDESTALS (27A & 27B) INSTALLED IN PUBLIC AREA ACCESSIBLE TO VEHICULAR TRAFFIC

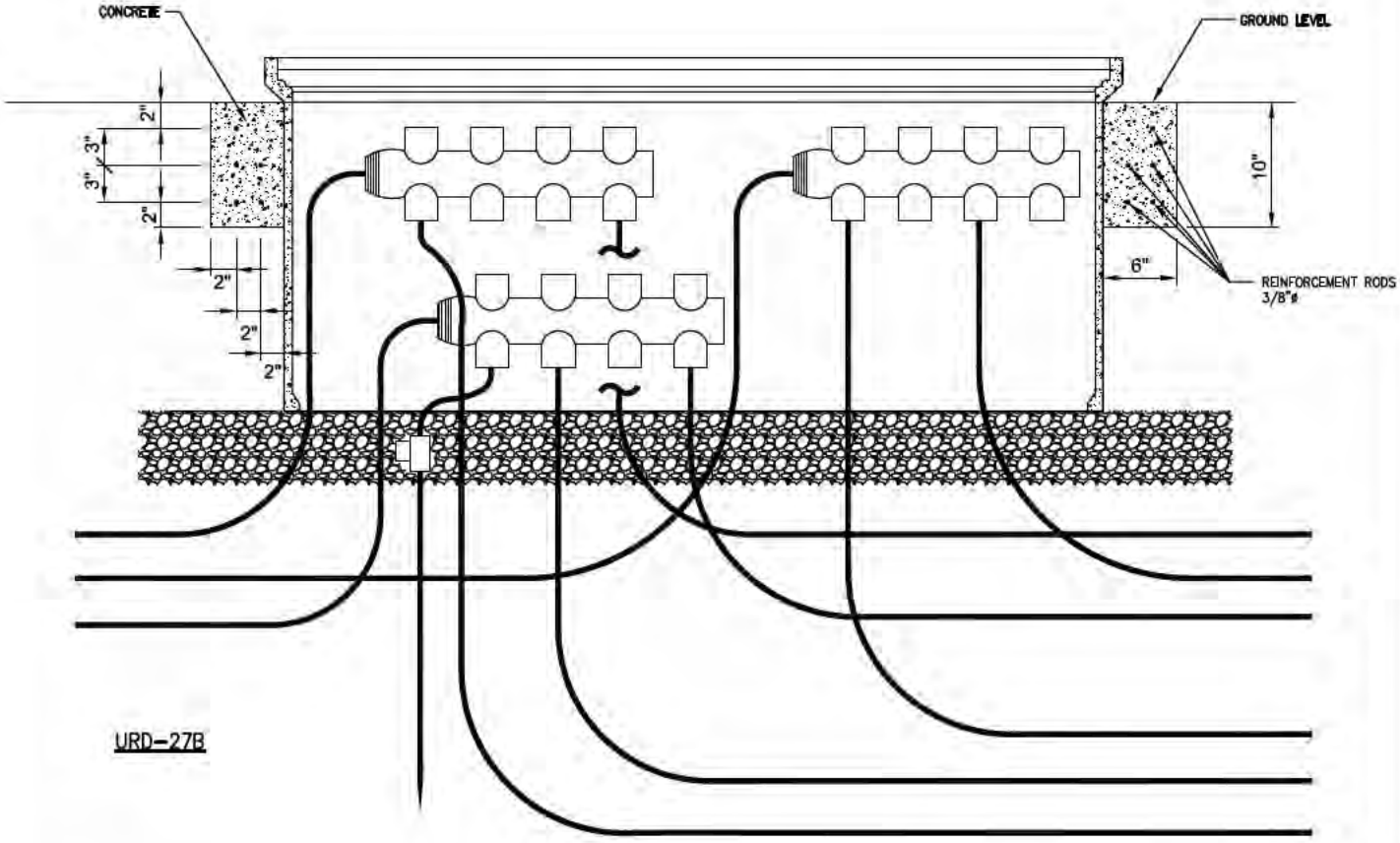
STANDARD NO. URD-28A REV 0
PAGE _____ DATE _____
REVIEWED _____
SUBMITTED _____
RECOMMENDED _____
APPROVED _____
DIGITIZED _____

NOTE:

1 – THE CONCRETE WILL BE SURROUNDED BY DIRT AND RESTING ON FIRM GROUND.



URD–27A



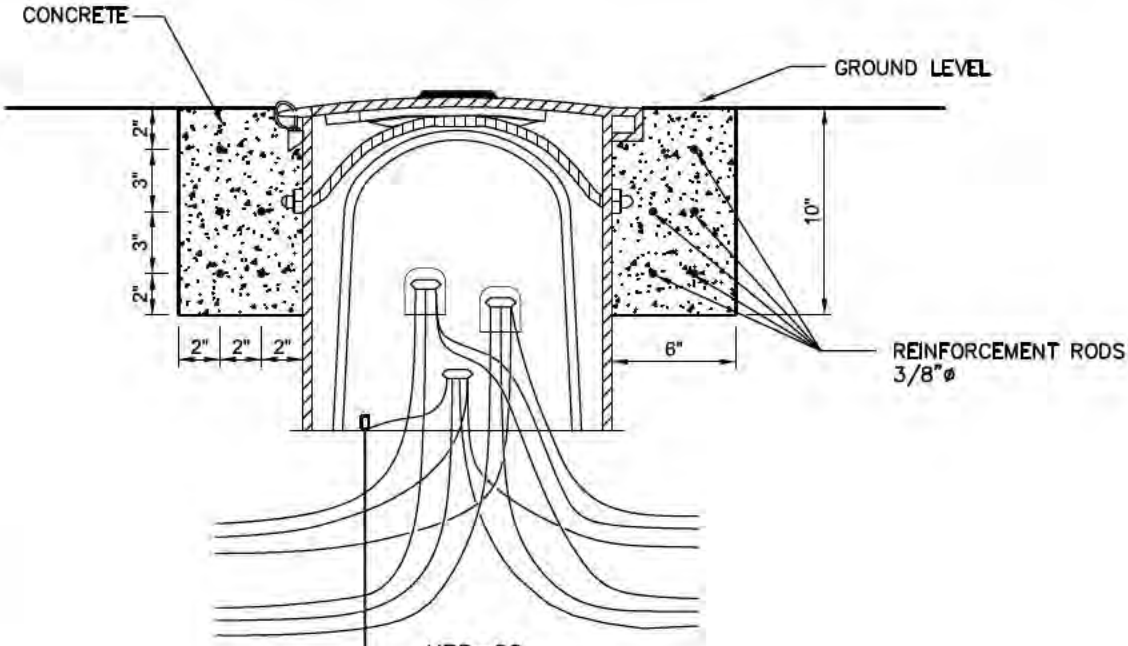
URD–27B

PUERTO RICO ELECTRIC POWER AUTHORITY

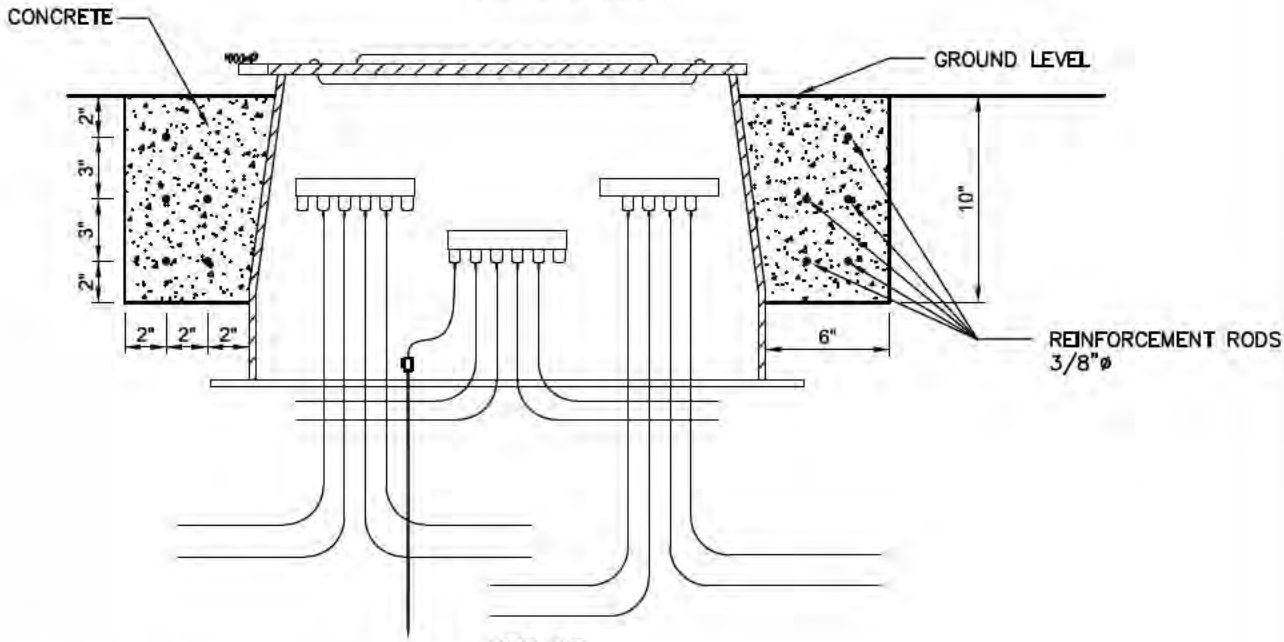
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
CONCRETE PROTECTION FOR SECONDARY PEDESTALS (URD 26 & 27) INSTALLED IN PUBLIC AREA ACCESSIBLE TO VEHICULAR TRAFFIC	STANDARD NO. URD-28 REV 0 PAGE ____ DATE ____ REVIEWED ____ SUBMITTED ____ RECOMMENDED ____ APPROVED ____ DIGITIZED ____



URD–26
DOMED SHAPED
SERVICE PEDESTAL



URD–27
RECTANGULAR SHAPED
SERVICE PEDESTAL

NOTE:

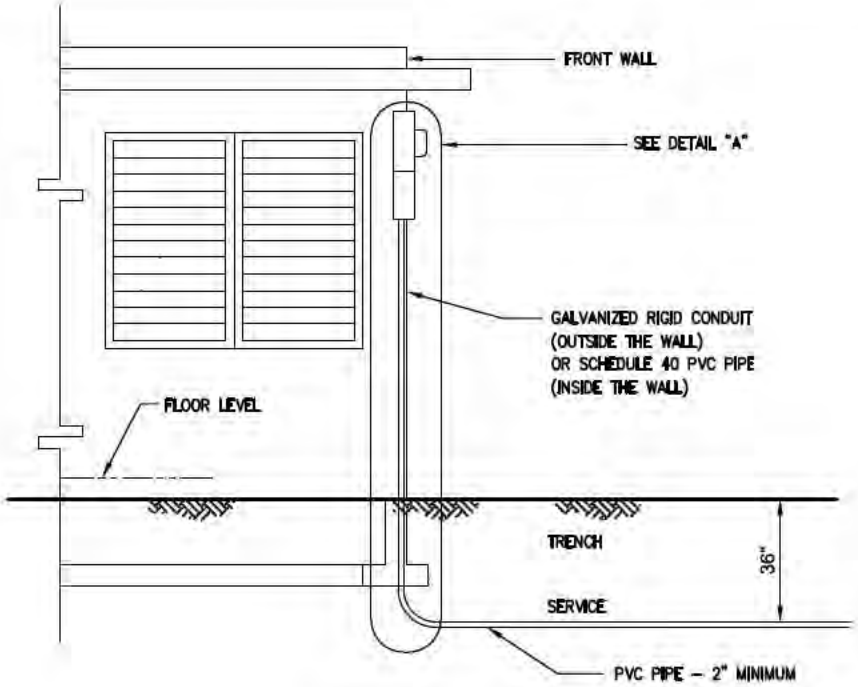
1 – THE CONCRETE WILL BE SURROUNDED BY DIRT AND RESTING ON FIRM GROUND.

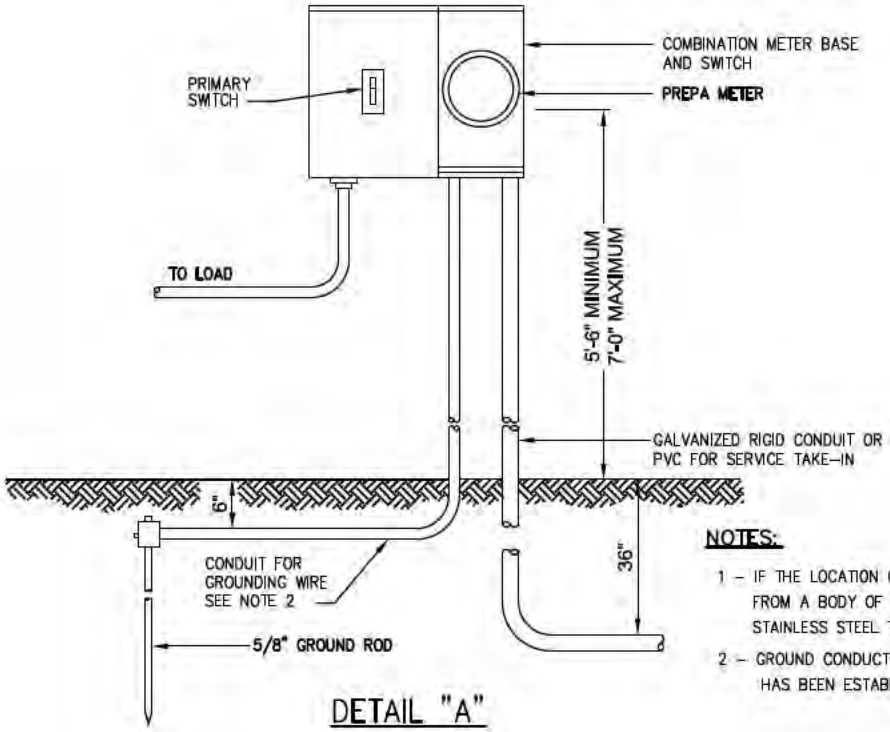
PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-29 REV 0
UNDERGROUND RESIDENTIAL SERVICE	PAGE ____ DATE ____
	REVIEWED ____
	SUBMITTED ____
	RECOMMENDED ____
	APPROVED ____
	DIGITIZED ____





DETAIL "A"

NOTES:

1 – IF THE LOCATION OF THIS EQUIPMENT IS ONE MILE OR LESS FROM A BODY OF WATER, IT IS REQUIRED ALUMINUM OR STAINLESS STEEL TO BE USED.

2 – GROUND CONDUCTOR SHALL NOT BE SMALLER THAN WHAT HAS BEEN ESTABLISHED ON NEC TABLE 250-66

PUERTO RICO ELECTRIC POWER AUTHORITY

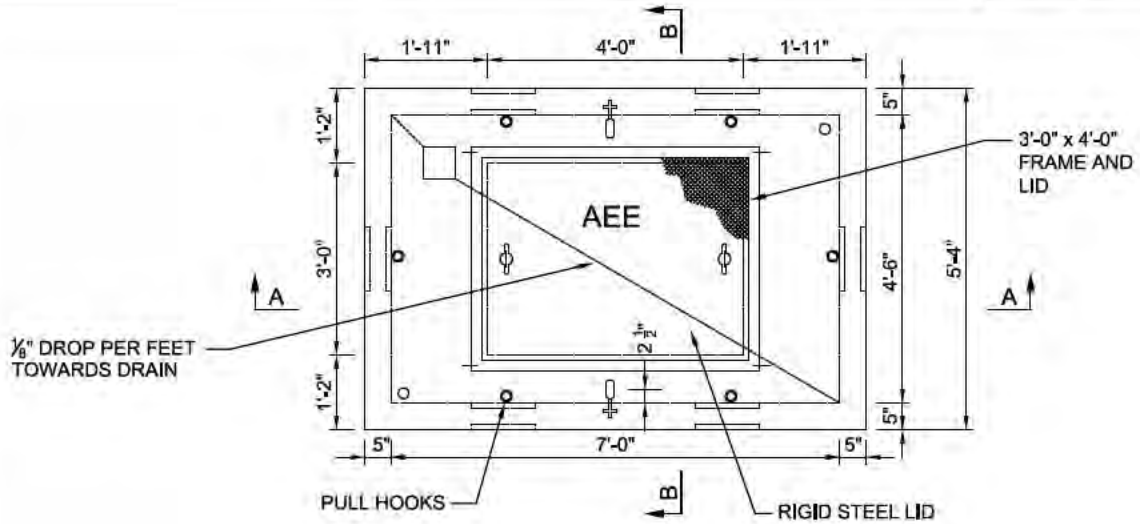
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

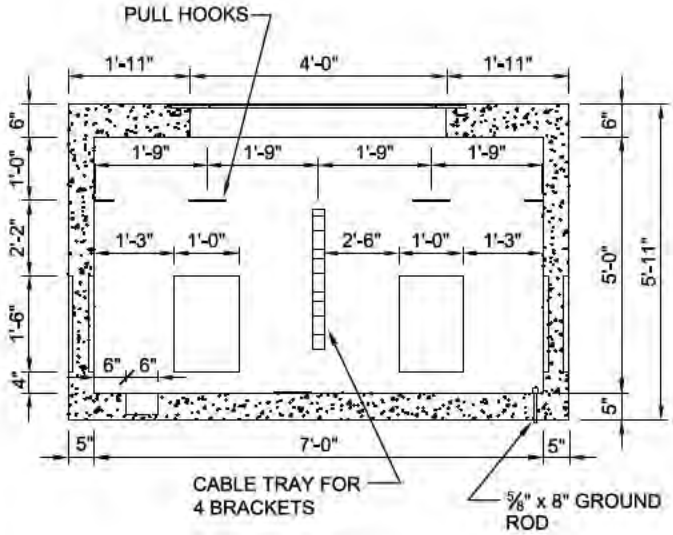
TITLE:

UNDERGROUND VAULT
FOR PRIMARY FEEDERS
7'-0" X 4'-6" X 5'-0"

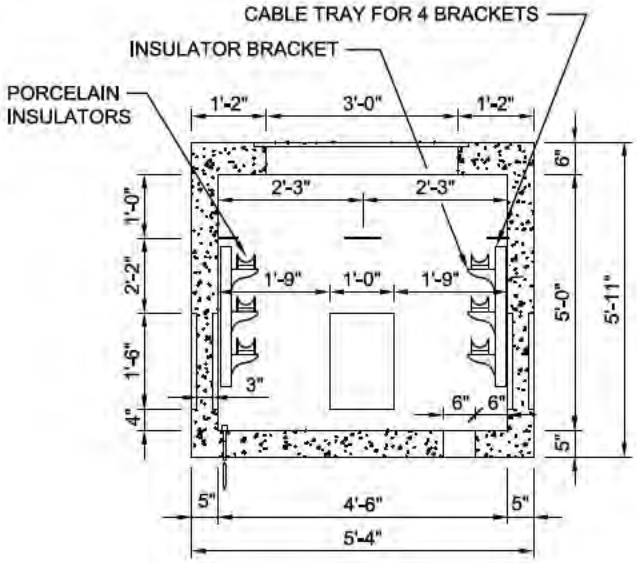
STANDARD NO. URD-30B REV 0
PAGE 1 OF 2 DATE -
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED



FLOOR VIEW



SECTION "A-A"



SECTION "B-B"

NOTES:

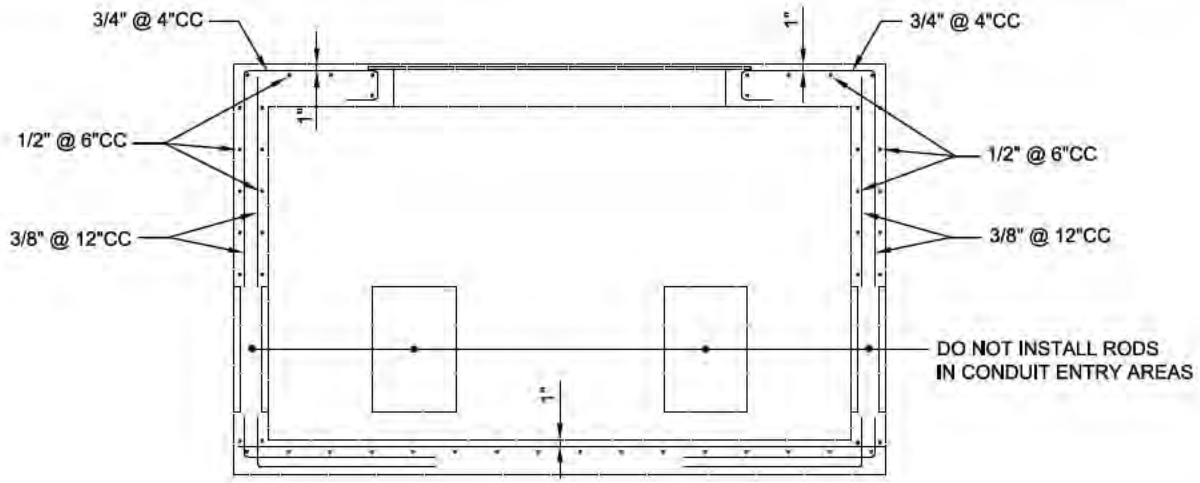
1 - THIS VAULT IS AVAILABLE PREFABRICATED FOR BOTH SIDEWALKS AND VEHICLE TRAFFIC. CONSULT WITH THE ELECTRICAL DISTRIBUTION DIVISION FOR MANUFACTURER'S THAT HAVE THESE APPROVED VAULTS.
2 - THIS VAULT IS TO BE USED ONLY FOR PRIMARY FEEDERS, PRIMARY DELIVERIES WITH CONDUCTOR UP TO 4/0 AWG-15kV, OR BOTH.
3 - FOR SECONDARY FEEDERS, USE THE SIZE 7'-0 x 4'-6" x 5'-0" VAULT. (SEE STANDARD URD-30).
4 - THE CONCRETE TO BE USED IN THE MANUFACTURE OF THE VAULT SHOULD HAVE A MINIMUM COMPRESSION RESISTANCE OF 4,000 psi (f'c = 4ksi).
5 - SEE VAULT DOORS IN APPENDICES 5, 6, 7 AND 8.
6 - SPLICES CAN'T BE MADE IN THESE VAULTS, IF SPLICES ARE NEEDED, URD-31 AND URD-31A ARE TO BE USED.

PUERTO RICO ELECTRIC POWER AUTHORITY

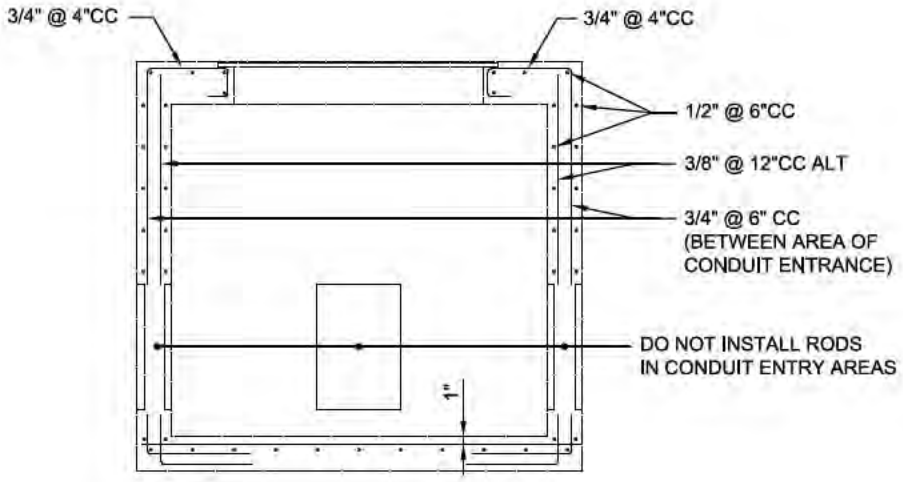
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
UNDERGROUND VAULT FOR PRIMARY FEEDERS REINFORCEMENT DETAILS 7'-0" X 4'-6" X 5'-0"	STANDARD NO. URD-30B REV 0 PAGE 2 OF 2 DATE - REVIEWED SUBMITTED RECOMMENDED APPROVED DIGITIZED



SECTION "A-A"



SECTION "B-B"

NOTES:

1 - THIS VAULT IS AVAILABLE PREFABRICATED FOR BOTH SIDEWALKS AND VEHICLE TRAFFIC. CONSULT WITH THE ELECTRICAL DISTRIBUTION DIVISION FOR MANUFACTURER'S THAT HAVE THESE APPROVED VAULTS.
2 - THIS VAULT IS TO BE USED ONLY FOR PRIMARY FEEDERS, PRIMARY DELIVERIES WITH CONDUCTOR UP TO 4/0 AWG-15kV, OR BOTH.
3 - FOR SECONDARY FEEDERS, USE THE SIZE 7'-0 x 4'-6" x 5'-0" VAULT. (SEE STANDARD URD-30).
4 - THE CONCRETE TO BE USED IN THE MANUFACTURE OF THE VAULT SHOULD HAVE A MINIMUM COMPRESSION RESISTANCE OF 4,000 psi (f'c = 4ksi).
5 - SEE VAULT DOORS IN APPENDICES 5, 6, 7 AND 8.
6 - SPLICES CAN'T BE MADE IN THESE VAULTS. IF SPLICES ARE NEEDED, URD-31 AND URD-31A ARE TO BE USED.

PUERTO RICO ELECTRIC POWER AUTHORITY

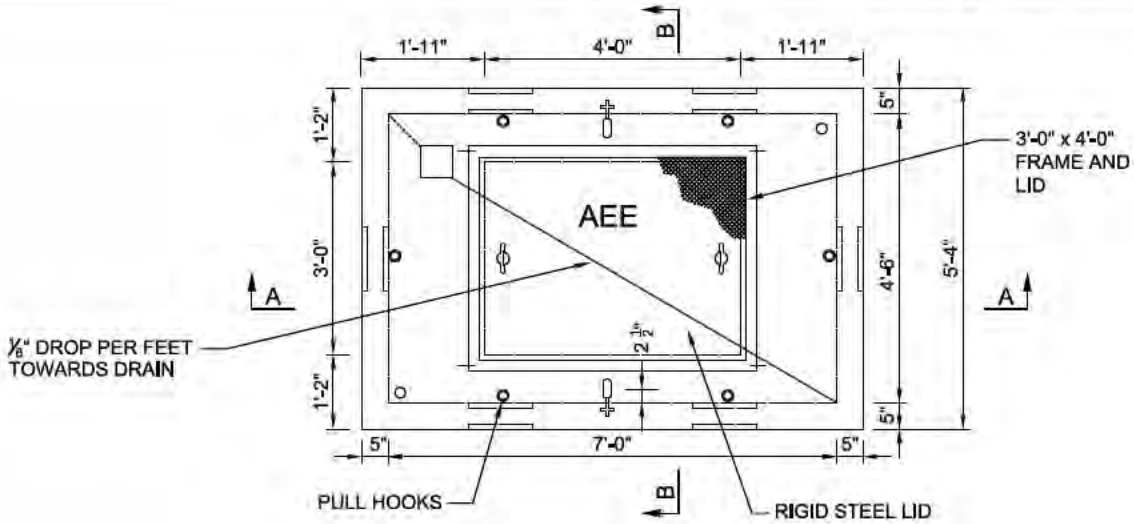
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

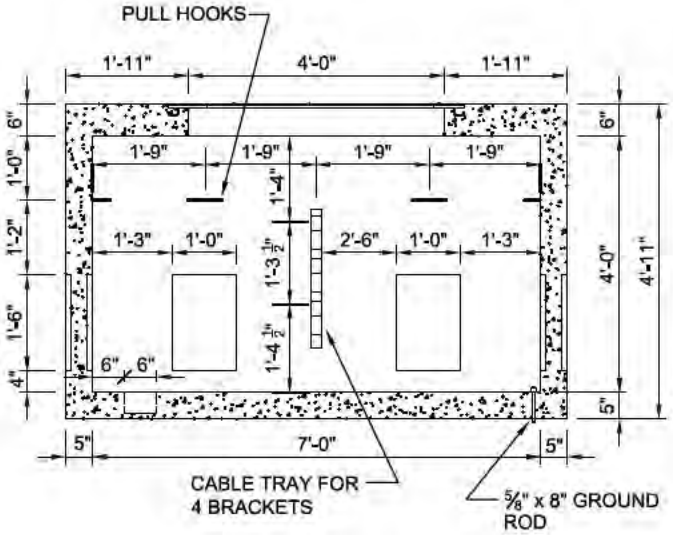
TITLE:

UNDERGROUND VAULT
FOR SECONDARY CONDUCTORS
7'-0" X 4'-6" X 4'-0"

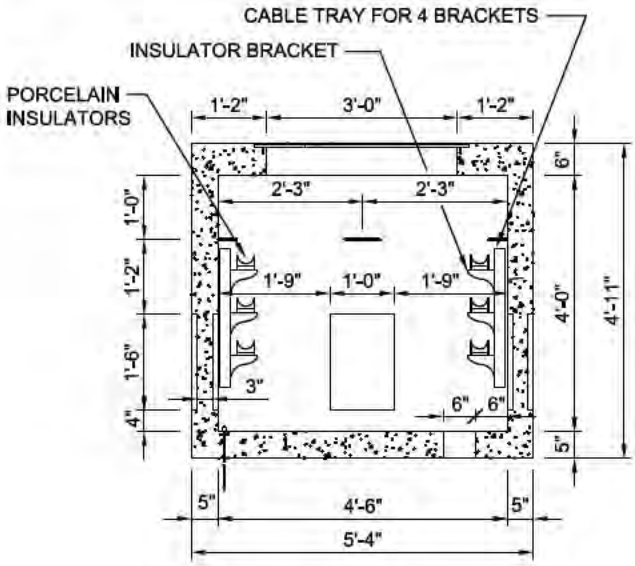
STANDARD NO. URD-30 REV 0
PAGE 1 OF 2 DATE –
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED



FLOOR VIEW



SECTION "A-A"



SECTION "B-B"

NOTES:

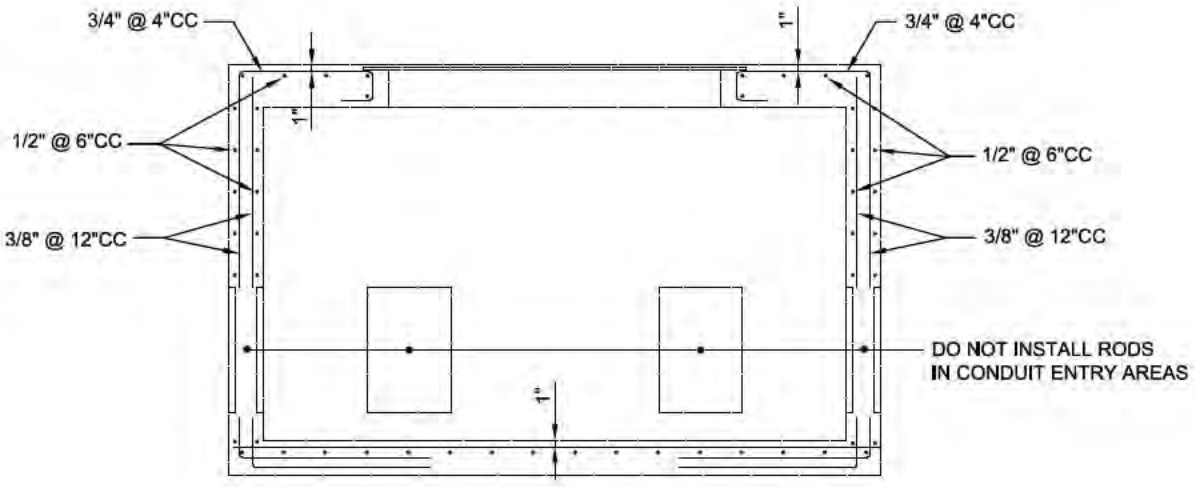
1 - THIS VAULT IS AVAILABLE PREFABRICATED FOR BOTH SIDEWALKS AND VEHICLE TRAFFIC. CONSULT WITH THE ELECTRICAL DISTRIBUTION DIVISION FOR MANUFACTURER'S THAT HAVE THESE APPROVED VAULTS.
2 - THIS VAULT IS TO BE USED ONLY FOR SECONDARY FEEDERS, RESIDENTIAL SERVICE, OR BOTH.
3 - FOR PRIMARY FEEDERS, USE THE SIZE 7'-0 x 4'-6" x 5'-0" VAULT. (SEE STANDARD URD-30B).
4 - THE CONCRETE TO BE USED IN THE MANUFACTURE OF THE VAULT SHOULD HAVE A MINIMUM COMPRESSION RESISTANCE OF 4,000 psi (f'c = 4ksi).
5 - SEE VAULT DOORS IN APPENDICES 5, 6, 7 AND 8.

PUERTO RICO ELECTRIC POWER AUTHORITY

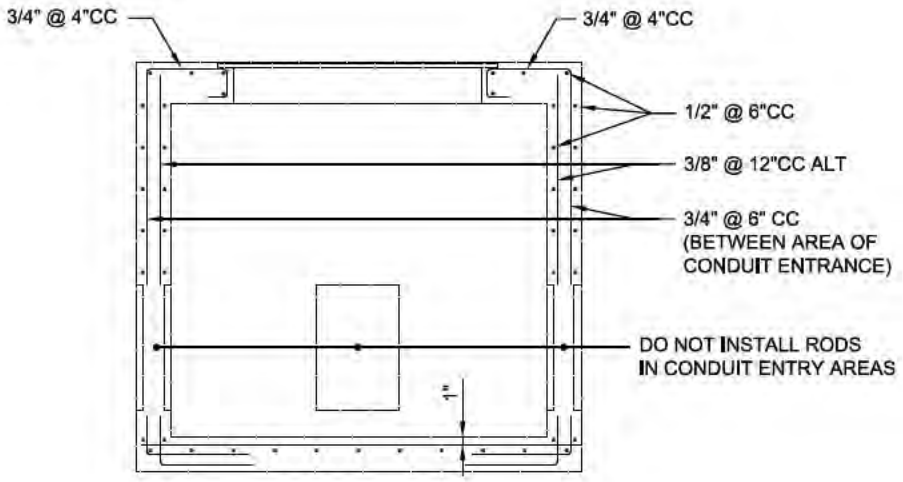
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
UNDERGROUND VAULT FOR SECONDARY CONDUCTORS REINFORCEMENT DETAILS 7'-0" X 4'-6" X 4'-0"	STANDARD NO. URD-30 REV 0 PAGE 2 OF 2 DATE - REVIEWED SUBMITTED RECOMMENDED APPROVED DIGITIZED



SECTION "A-A"



SECTION "B-B"

NOTES:

1 - THIS VAULT IS AVAILABLE PREFABRICATED FOR BOTH SIDEWALKS AND VEHICLE TRAFFIC. CONSULT WITH THE ELECTRICAL DISTRIBUTION DIVISION FOR MANUFACTURER'S THAT HAVE THESE APPROVED VAULTS.

2 - THIS VAULT IS TO BE USED ONLY FOR SECONDARY FEEDERS, RESIDENTIAL SERVICE, OR BOTH.

3 - FOR PRIMARY FEEDERS, USE THE SIZE 7'-0 x 4'-6" x 5'-0" VAULT. (SEE STANDARD URD-30B).

PUERTO RICO ELECTRIC POWER AUTHORITY

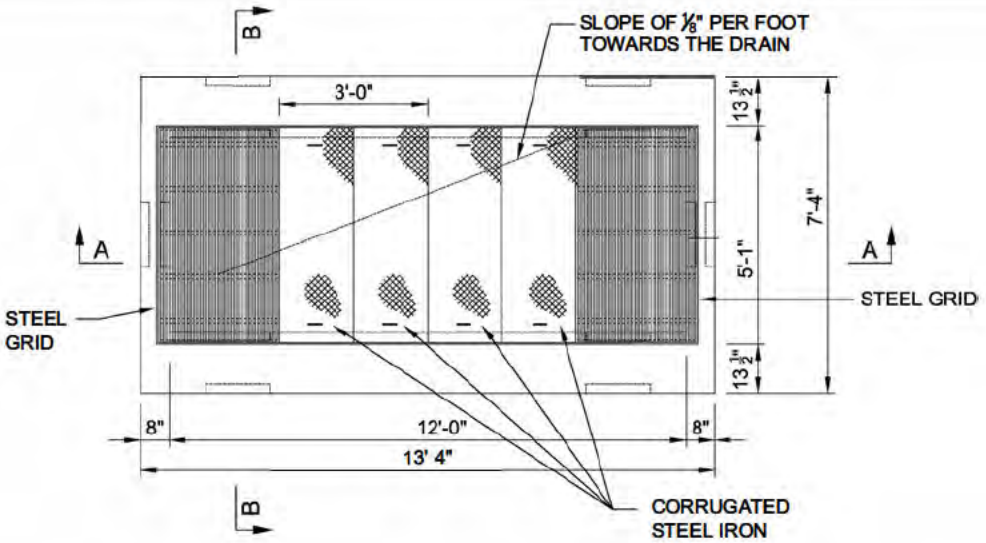
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

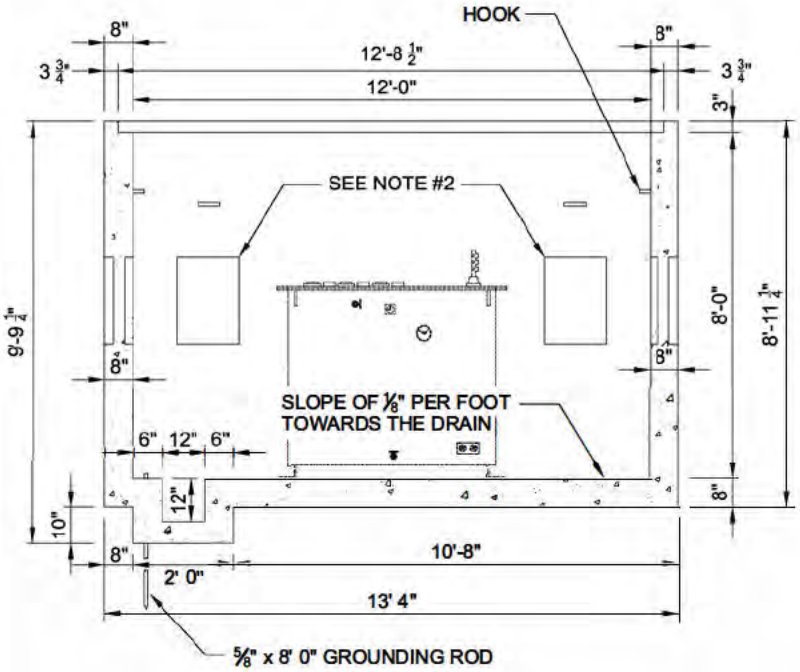
TITLE:

TRANSFORMER VAULT
12' X 6' X 8' VAULT

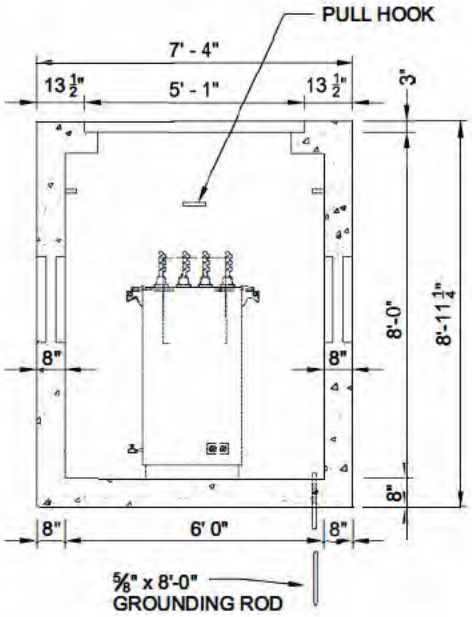
STANDARD NO. URD 33 REV 0
PAGE 1 OF 2 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED



TOP VIEW



SECTION "A - A"
(NO LID)



SECTION "B - B"
(NO LID)

NOTES:

1 THE CONCRETE TO BE USED IN THE MANUFACTURE OF THE VAULT SHOULD HAVE A MINIMUM COMPRESSION RESISTANCE OF 4,000 psi (f'c = 4ksi).

2 VAULTS WILL HAVE THE CORRESPONDING LIDS INSTALLED ACCORDING TO DESIGN SPECIFICATIONS. CONDUIT CARRYING PRIMARY FEEDERS SHOULD BE AT A MINIMUM DEPTH OF 48" AND CONDUIT CARRYING SECONDARY SHOULD BE AT A MINIMUM DEPTH OF 36".

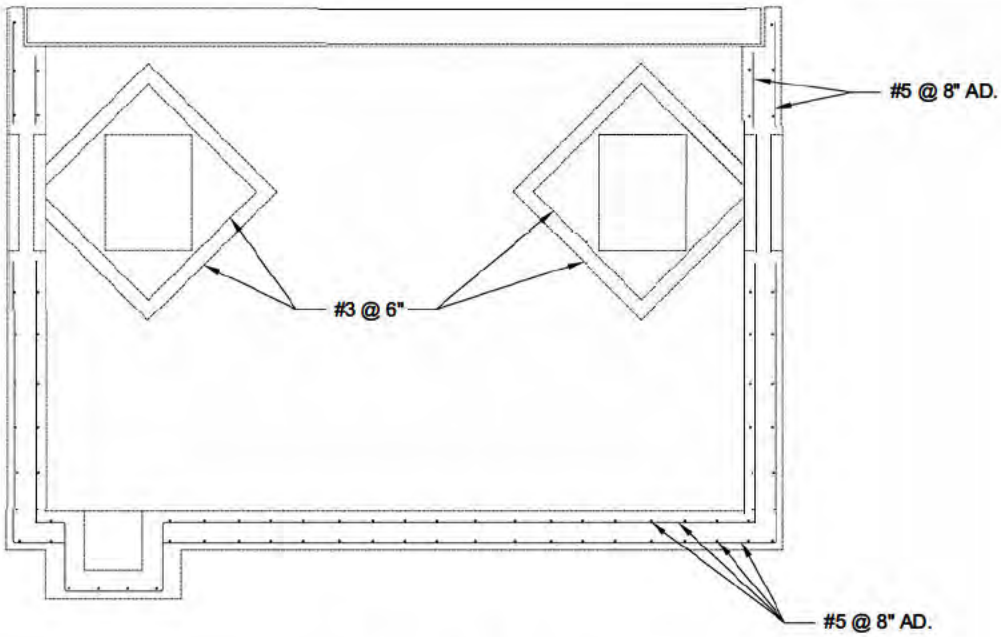
PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

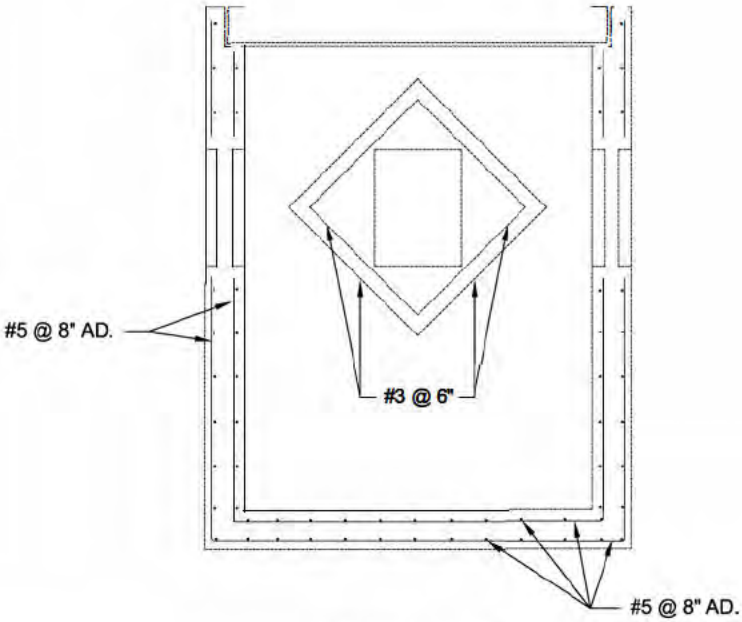
UNDERGROUND DISTRIBUTION STANDARDS

URD-33

TITLE:	STANDARD NO. URD-33 REV 0
TRANSFORMER VAULT REINFORCEMENT DETAIL 12' X 6' X 8'	PAGE 2 OF 2 DATE - REVIEWED SUBMITTED RECOMMENDED APPROVED DIGITIZED



SECTION "A - A"



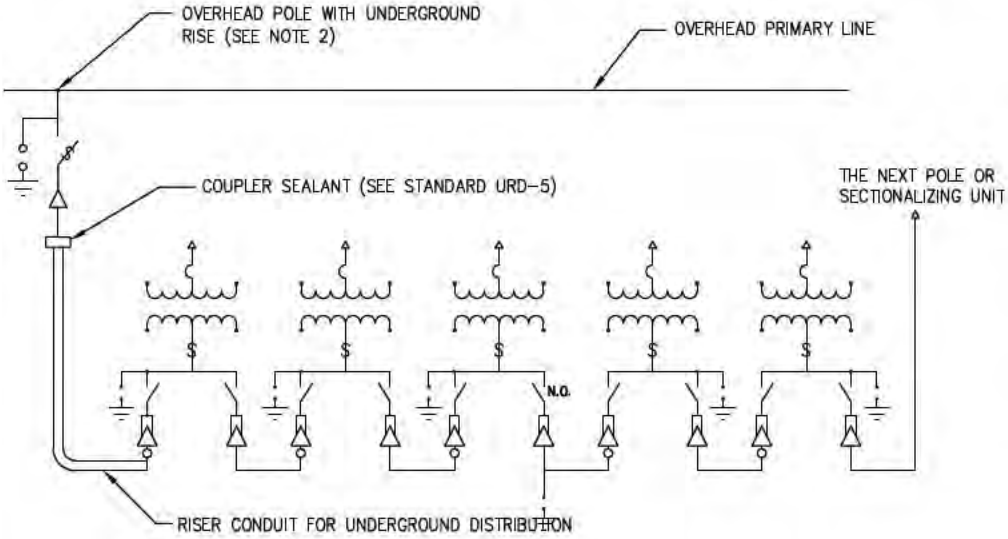
SECTION "B - B"

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
THREE-PHASE LOOP SYSTEM FOR PAD MOUNTED TRANSFORMERS	STANDARD NO. URD-35 REV 0 PAGE _____ DATE _____ REVIEWED _____ SUBMITTED _____ RECOMMENDED _____ APPROVED _____ DIGITIZED _____



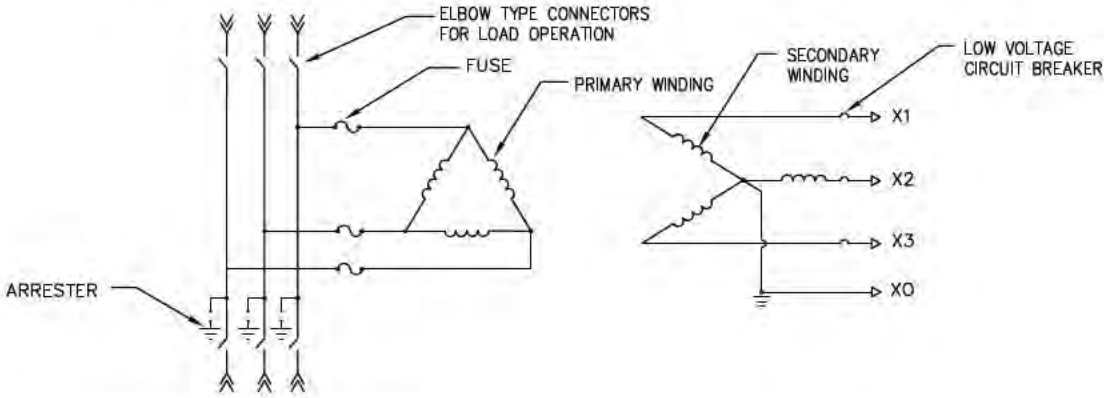
LEGEND:

- CABLE TERMINATION FOR OUTDOOR USE
- ELBOW TYPE CONNECTOR FOR LOAD OPERATION
- FAULT INDICATOR
- FUSE CUTOUT
- CURRENT LIMITING FUSE
- N.O. NORMALLY OPEN
- METAL OXIDE ELBOW ARRESTER
- METAL OXIDE ARRESTER
- TRANSFORMER
- UNDERGROUND CABLE WITH MINIMUM SIZE OF #2 AWG COPPER
- LOW VOLTAGE CIRCUIT BREAKER

NOTES:

1. A MAXIMUM OF 8 THREE-PHASE TRANSFORMERS PER LOOP CAN BE INSTALLED.
2. THIS POINT CAN ALSO BE A SECTIONALIZING UNIT IN AN UNDERGROUND SYSTEM WITH INTERIOR TERMINATIONS AND ADEQUATE OVER-CURRENT AND OVER-VOLTAGE PROTECTION.
3. THIS DIAGRAM IS FOR ILLUSTRATIVE PURPOSES ONLY. THE DESIGN OF THE SYSTEM WILL FOLLOW THE MOST RECENT CODES AND STANDARDS.

SCHEMATIC DIAGRAM FOR DELTA-Y TRANSFORMER CONNECTION

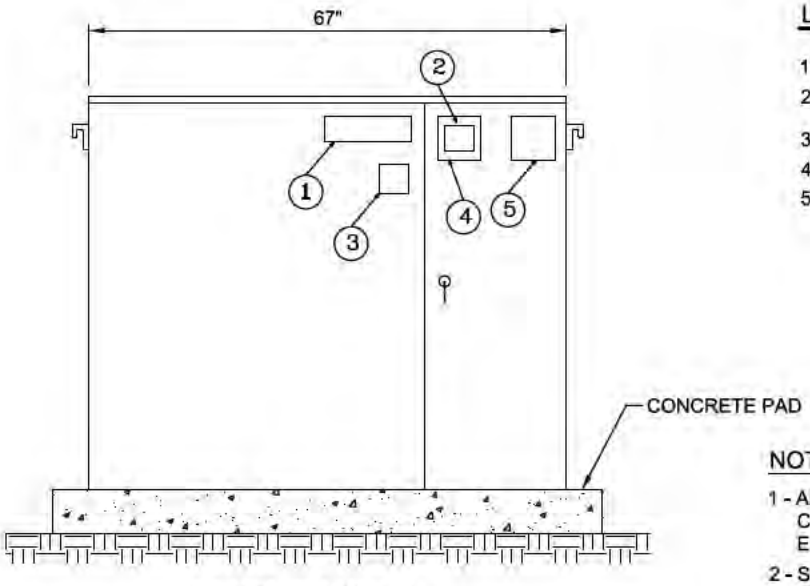


PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
MAXIMUM DIMENSIONS FOR THREE-PHASE DEAD-FRONT PAD MOUNTED TRANSFORMER IN LOOP FEED	STANDARD NO. URD-36 REV 0 PAGE ____ DATE ____ REVIEWED ____ SUBMITTED ____ RECOMMENDED ____ APPROVED ____ DIGITIZED ____



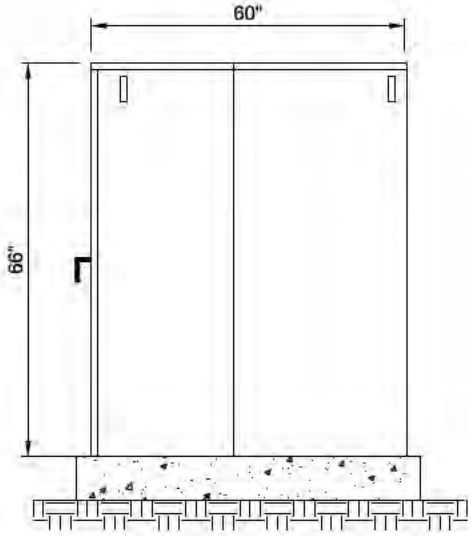
FRONT VIEW

LEGEND:

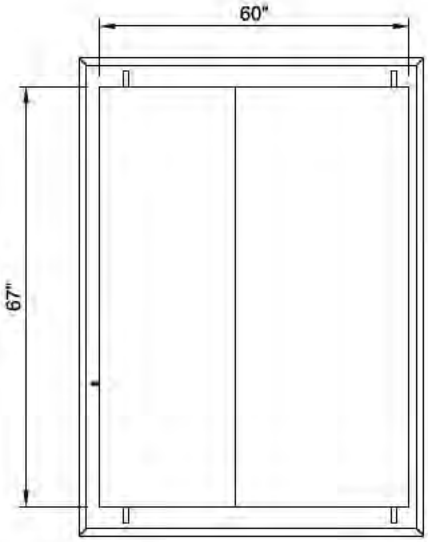
1- PREPA PROPERTY NUMBER
2- PREPA PROPERTY NUMBER ON THE INSIDE OF THE CABINET
3- kVA RATING
4- "DANGER-HIGH VOLTAGE" LABEL
5- "NON-PCB" INDICATOR

NOTES:

1 - ALL EQUIPMENT LOCATED ONE MILE OR LESS FROM THE COAST SHALL USE 304 GRADE STAINLESS STEEL ENCLOSURES TO REDUCE THE EFFECTS OF CORROSION.
2 - SEE URD 37 FOR CONCRETE PAD REQUIREMENTS FOR DEAD FRONT PAD MOUNTED TRANSFORMERS.
3 - THE EQUIPMENT NAMEPLATE SHOULD BE VISIBLE INSIDE AND OUTSIDE OF THE UNIT AND SHOULD INCLUDE THE EQUIPMENT RATING AND THE MANUFACTURER CONTACT INFORMATION.



SIDE VIEW



TOP VIEW

PUERTO RICO ELECTRIC POWER AUTHORITY

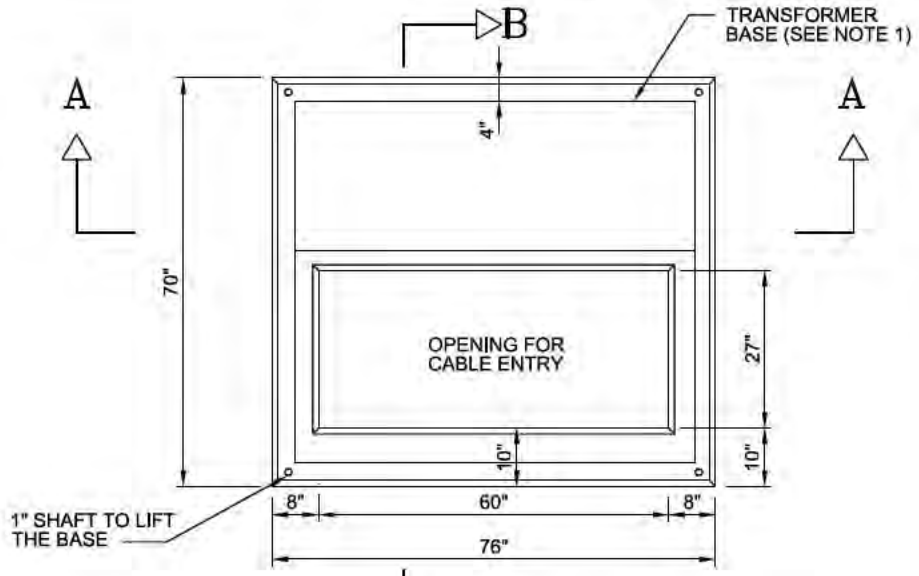
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

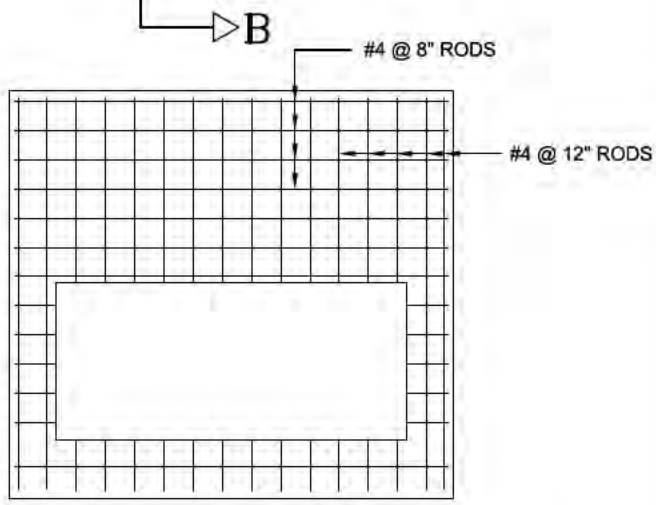
CONCRETE BASE FOR THREE-PHASE
DEAD-FRONT PAD MOUNTED TRANSFORMER
IN LOOP FEED

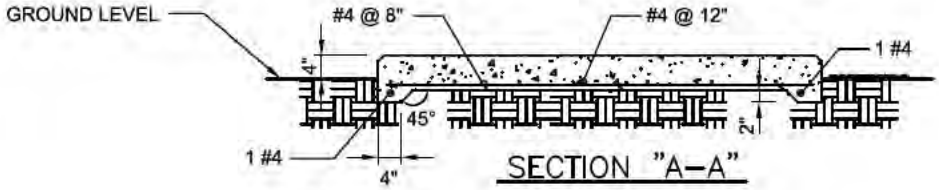
STANDARD NO. URD-37 REV 0
PAGE _____ DATE _____
REVIEWED _____
SUBMITTED _____
RECOMMENDED _____
APPROVED _____
DIGITIZED _____



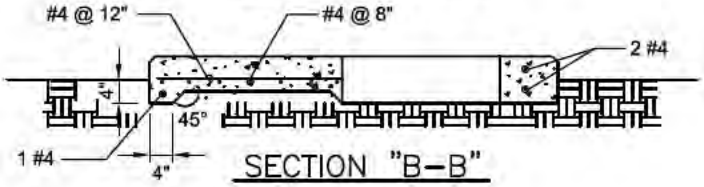
NOTES:

1 - THE MINIMUM DISTANCE FROM THE BASE OF THE TRANSFORMER TO THE EDGES OF THE CONCRETE BASE WILL BE 6".
2 - SEE URD 22 FOR CONCRETE BASE MATERIAL AND CONSTRUCTION DETAILS.
3 - SEE URD 23 FOR CONDUIT AND GROUNDING DETAILS.
4 - SECTION A AND B DIMENSIONS ARE TYPICAL. TRANSFORMER WEIGHT AND SOIL CONDITIONS MAY REQUIRE THICKER PAD AS SHOWN IN URD 23.
5 - SEE URD 24 FOR TRANSFORMER PLACEMENT INFORMATION.
6 - TRANSFORMERS LOCATED 1 MILE OR LESS FROM THE COAST SHALL USE 304 GRADE STAINLESS STEEL ENCLOSURES TO MINIMIZE CORROSION.





SECTION "A–A"



SECTION "B–B"

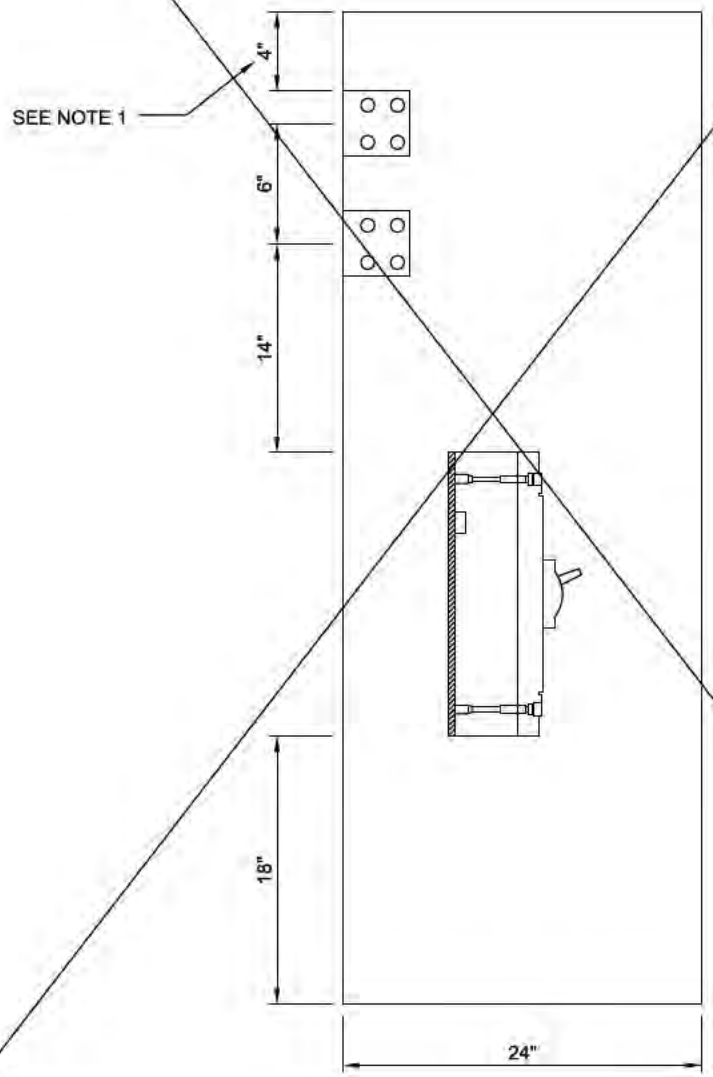
PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-38A REV 0
DESCRIPTIONS AND DIMENSIONS FOR THREE-PHASE DEAD-FRONT PAD MOUNTED TRANSFORMER IN LOOP FEED	PAGE ____ DATE ____
	REVIEWED ____
	SUBMITTED ____
	RECOMMENDED ____
	APPROVED ____
	DIGITIZED ____

SECTION "A–A"



SEE URD 38 SH2

NOTE:

1 - THIS IS THE MINIMUM DISTANCE.

2 - SEE STANDARD URD-38 FOR LOCATION OF THIS SECTION DIAGRAM

PUERTO RICO ELECTRIC POWER AUTHORITY

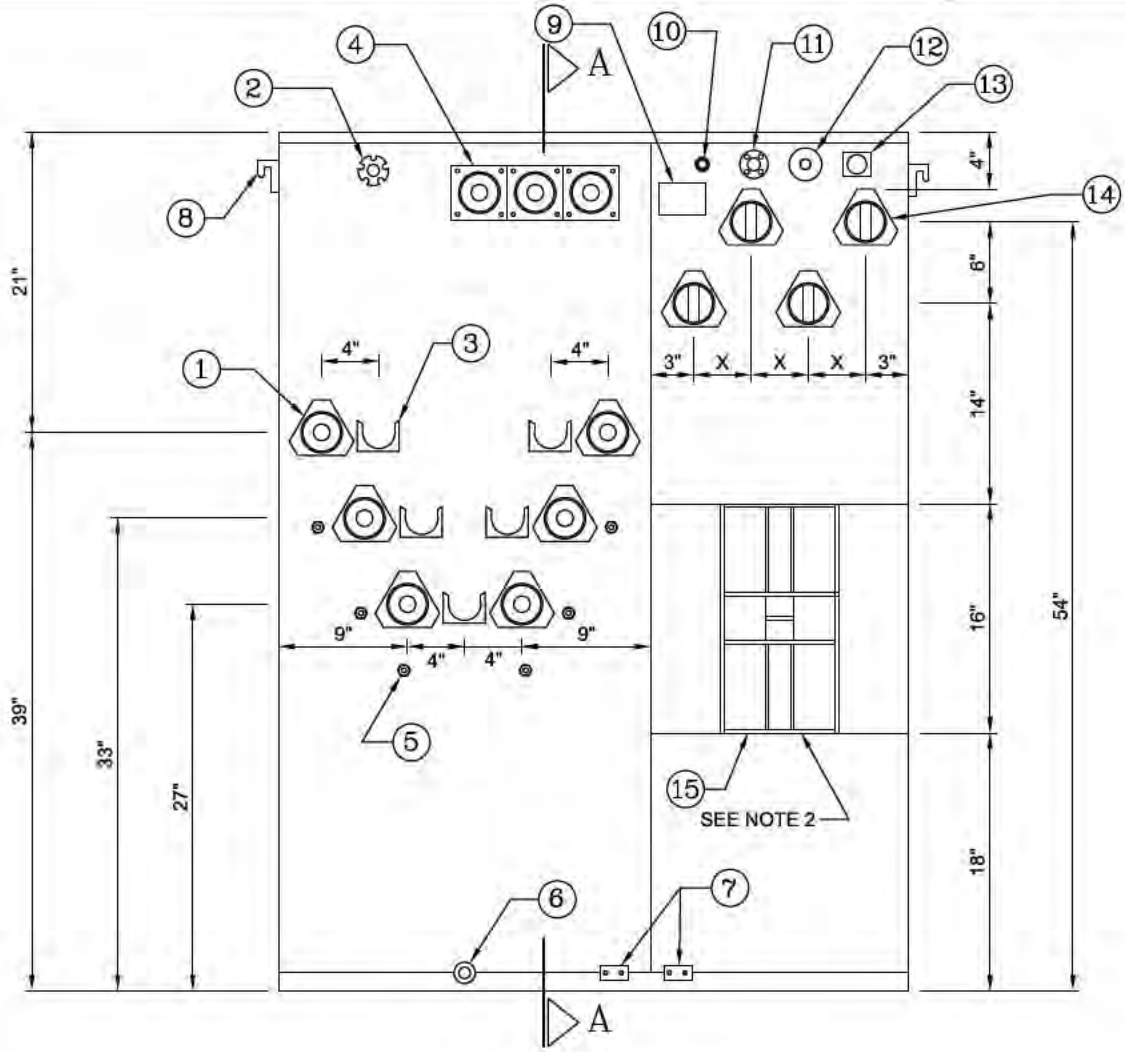
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:

DESCRIPTIONS AND DIMENSIONS FOR THREE-PHASE DEAD-FRONT PAD MOUNTED TRANSFORMER IN LOOP FEED

STANDARD NO. URD-38 REV 0
PAGE 1 OF 2 DATE
REVIEWED
SUBMITTED
RECOMMENDED
APPROVED
DIGITIZED



LEGEND:

1. HIGH-VOLTAGE BUSHING
2. NO LOAD TAP CHANGER
3. PARKING STAND
4. FUSE
5. GROUND CONNECTION FOR ARRESTER
6. DRAINAGE VALVE
7. GROUND CONNECTION
8. LIFT HOOK
9. INDENTIFICATION PLATE
10. FILLING PLUG
11. ESCAPE VALVE
12. OIL TEMPERATURE METER
13. OIL LEVEL METER
14. LOW-VOLTAGE BUSHING
15. LOW VOLTAGE CIRCUIT BREAKER

NOTES:

1 - THE HEIGHT OF THE HIGH AND LOW VOLTAGE BUSHINGS WILL BE AS SPECIFIED IN THE DRAWINGS FOR ALL THREE-PHASE PAD MOUNTED TRANSFORMERS. THE OTHER DIMENSIONS SHOWN IN THE DRAWING ARE THE MINIMUM REQUIREMENTS SPECIFIED BY IEEE C57.12.34.

2 - THE MAXIMUM HEIGHT FROM THE BOTTOM OF THE LOW VOLTAGE SWITCH TO THE TOP OF THE SWITCH WILL BE 16". THE BOTTOM OF THIS SWITCH WILL BE PLACED AT A HEIGHT OF 18" FROM GROUND FOR ALL CASES.

3 - DIMENSION "X" WILL BE AS SPECIFIED ON IEEE C57.12.34.

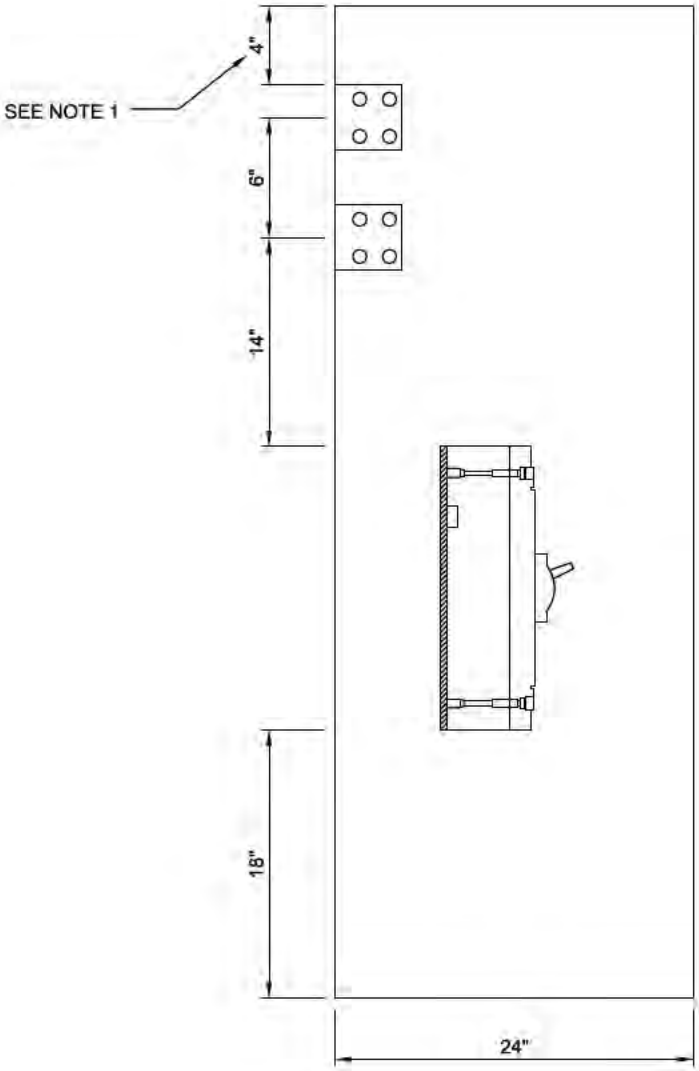
PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-38 REV 0
DESCRIPTIONS AND DIMENSIONS FOR THREE-PHASE DEAD-FRONT PAD MOUNTED TRANSFORMER IN LOOP FEED	PAGE 2 OF 2 DATE REVIEWED SUBMITTED RECOMMENDED APPROVED DIGITIZED

SECTION "A–A"



NOTE:

1 - THIS IS THE MINIMUM DISTANCE.

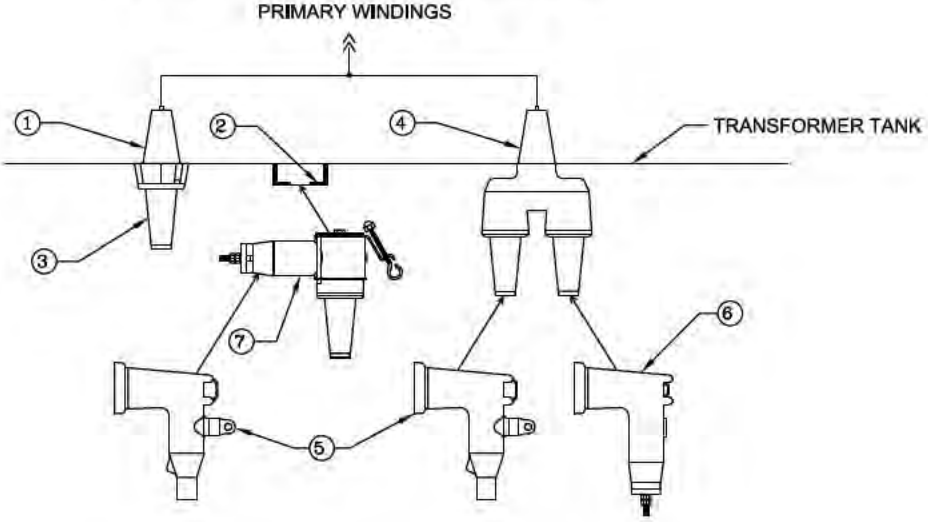
PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

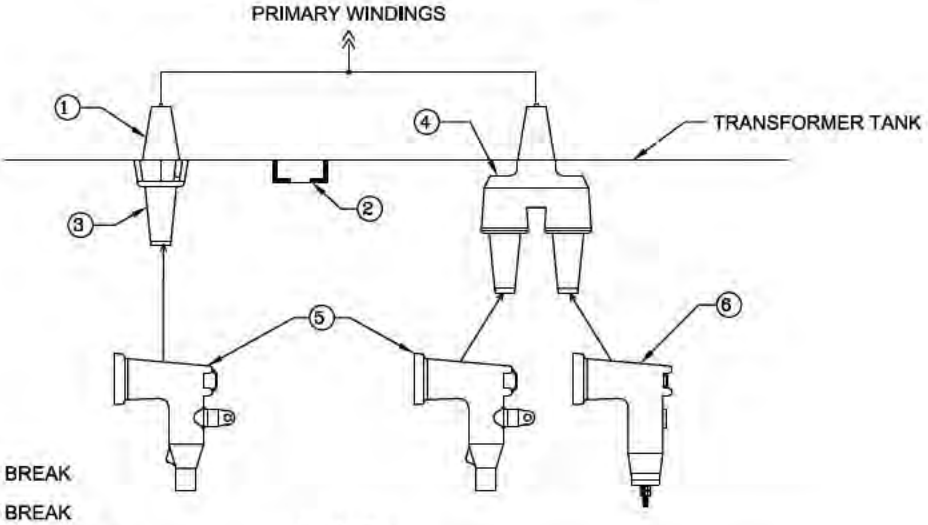
UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
ARRESTER AND BUSHING CONNECTION DETAILS FOR THREE-PHASE PAD MOUNTED TRANSFORMER IN LOOP FEED	STANDARD NO. URD-39 REV 0 PAGE ____ DATE ____ REVIEWED ____ SUBMITTED ____ RECOMMENDED ____ APPROVED ____ DIGITIZED ____

NORMALLY OPEN POINT (N.O.) OF THE LOOP



NORMALLY CLOSED POINT (N.C.) OF THE LOOP



LEGEND:

1. BUSHING WELL
2. PARKING STAND
3. HIGH VOLTAGE LOAD BREAK BUSHING INSERT
3. HIGH VOLTAGE LOAD BREAK FEED-THRU INSERT
5. LOAD BREAK ELBOW CONNECTOR
6. ELBOW ARRESTER
7. PARKING STAND ARRESTER

NOTES:

1 - 200 AMP LOAD-BREAK ELBOW CONNECTORS SHALL INCORPORATE COPPER INSERTS, NOT ALUMINUM INSERTS.

PUERTO RICO ELECTRIC POWER AUTHORITY

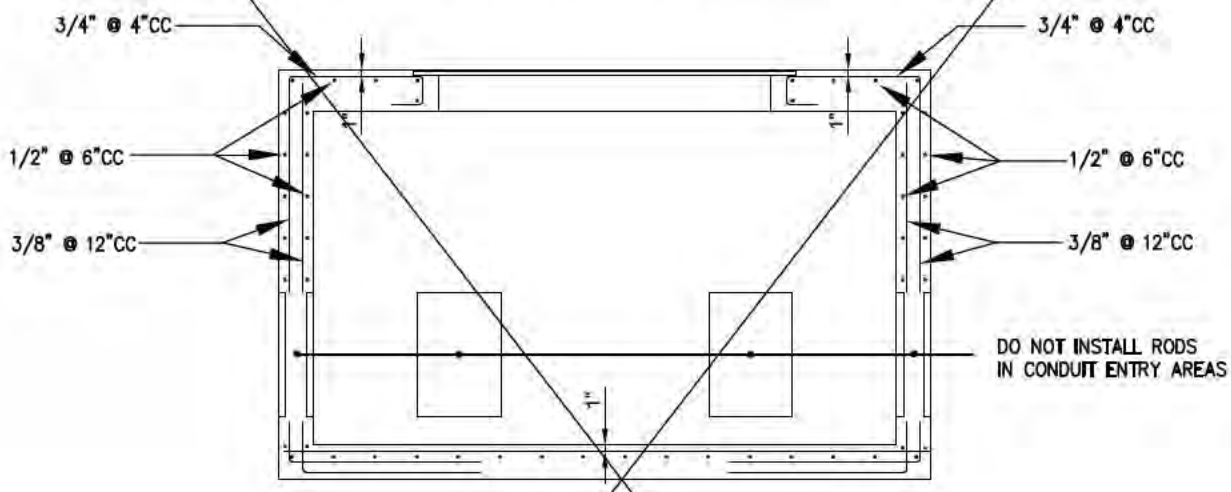
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

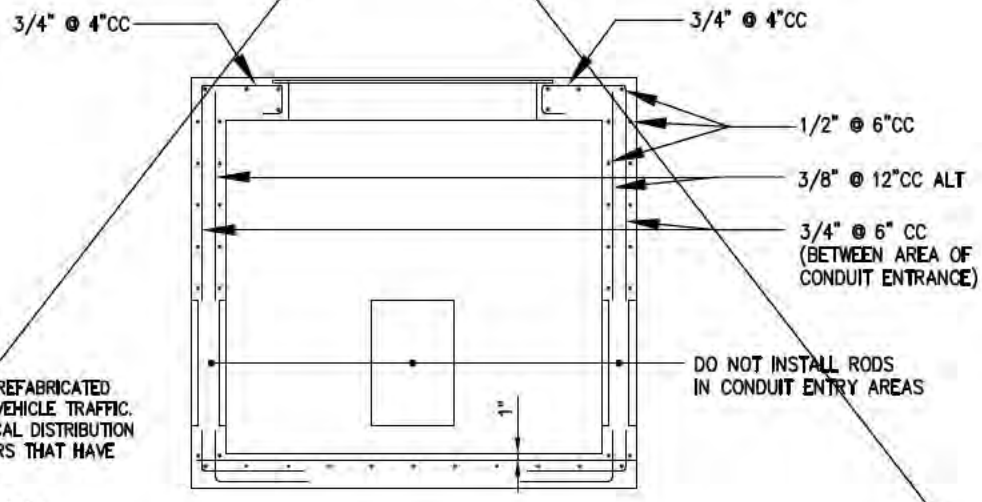
TITLE:	STANDARD NO. URD-30A REV 3
REINFORCEMENT DETAILS FOR UNDERGROUND VAULT 7'-0" X 4'-6" X 4'-0"	PAGE - DATE -
	REVIEWED -
	SUBMITTED -
	RECOMMENDED
	APPROVED
	DIGITIZED

VOID

SUPERCEDED BY URD-30-SH2



SECTION "A–A"



SECTION "B–B"

NOTES:

1 – THIS VAULT IS AVAILABLE PREFABRICATED FOR BOTH SIDEWALKS AND VEHICLE TRAFFIC. CONSULT WITH THE ELECTRICAL DISTRIBUTION DIVISION FOR MANUFACTURERS THAT HAVE THESE APPROVED VAULTS.

2 – THIS VAULT IS TO BE USED ONLY FOR SECONDARY FEEDERS, RESIDENTIAL SERVICE, OR BOTH.

3 – FOR PRIMARY FEEDERS, USE THE SIZE 7'–0" x 4'–6" x 5'–0" VAULT. (SEE STANDARD URD–30B AND URD–30C).

4 – FOR SECTIONAL CUTS "A–A" AND "B–B", SEE STANDARD URD–30

PUERTO RICO ELECTRIC POWER AUTHORITY

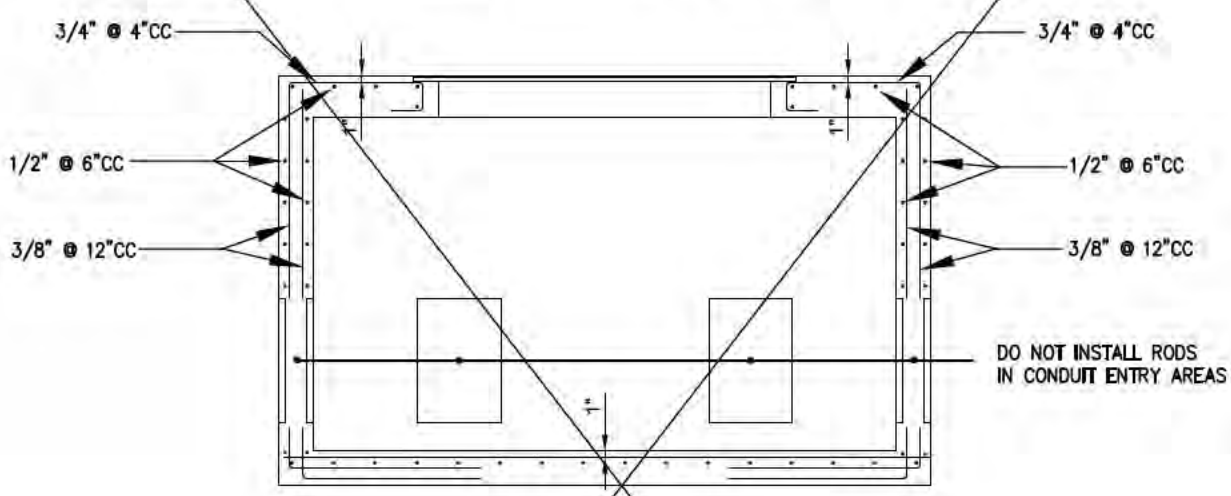
DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

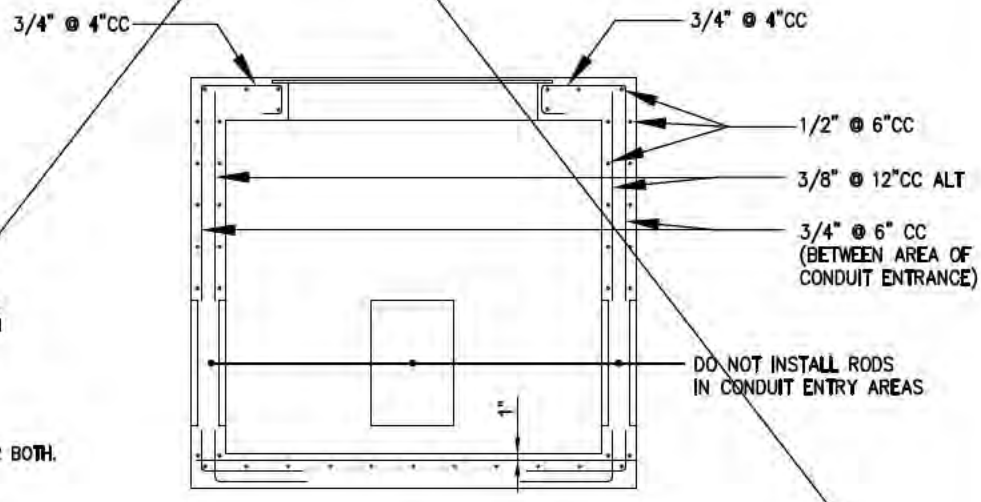
TITLE:	STANDARD NO. URD-30C REV 3
REINFORCEMENT DETAILS FOR PRIMARY FEEDER UNDERGROUND VAULT 7'-0" X 4'-6" X 5'-0"	PAGE - DATE -
	REVIEWED -
	SUBMITTED -
	RECOMMENDED
	APPROVED
	DIGITIZED

VOID

SUPERCEDED BY URD-30B-SH2



SECTION "A–A"



SECTION "B–B"

NOTES:

1 – THIS VAULT IS AVAILABLE PREFABRICATED FOR BOTH SIDEWALKS AND VEHICLE TRAFFIC. CONSULT WITH THE ELECTRICAL DISTRIBUTION DIVISION FOR MANUFACTURERS THAT HAVE THESE APPROVED VAULTS.

2 – THIS VAULT IS TO BE USED ONLY FOR FEEDERS, RESIDENTIAL PRIMARY WITH CONDUCTOR UP TO 4/0 AWG–15kV, OR BOTH.

3 – FOR SECONDARY FEEDERS, USE THE SIZE 7'–0" x 4'–6" x 5'–0" VAULT. (SEE STANDARD URD–30 AND URD–30A).

4 – THE CONCRETE TO BE USED IN THE MANUFACTURE OF THE VAULT SHOULD HAVE A MINIMUM COMPRESSION RESISTANCE OF 4,000 psi (f'c = 4ksi).

5 – SEE VAULT DOORS IN APPENDICES 5, 6, 7 AND 8.

6 – SPLICES CAN'T BE MADE IN THESE VAULTS. IF SPLICES ARE NEEDED, URD–31 AND URD–31A ARE TO BE USED.

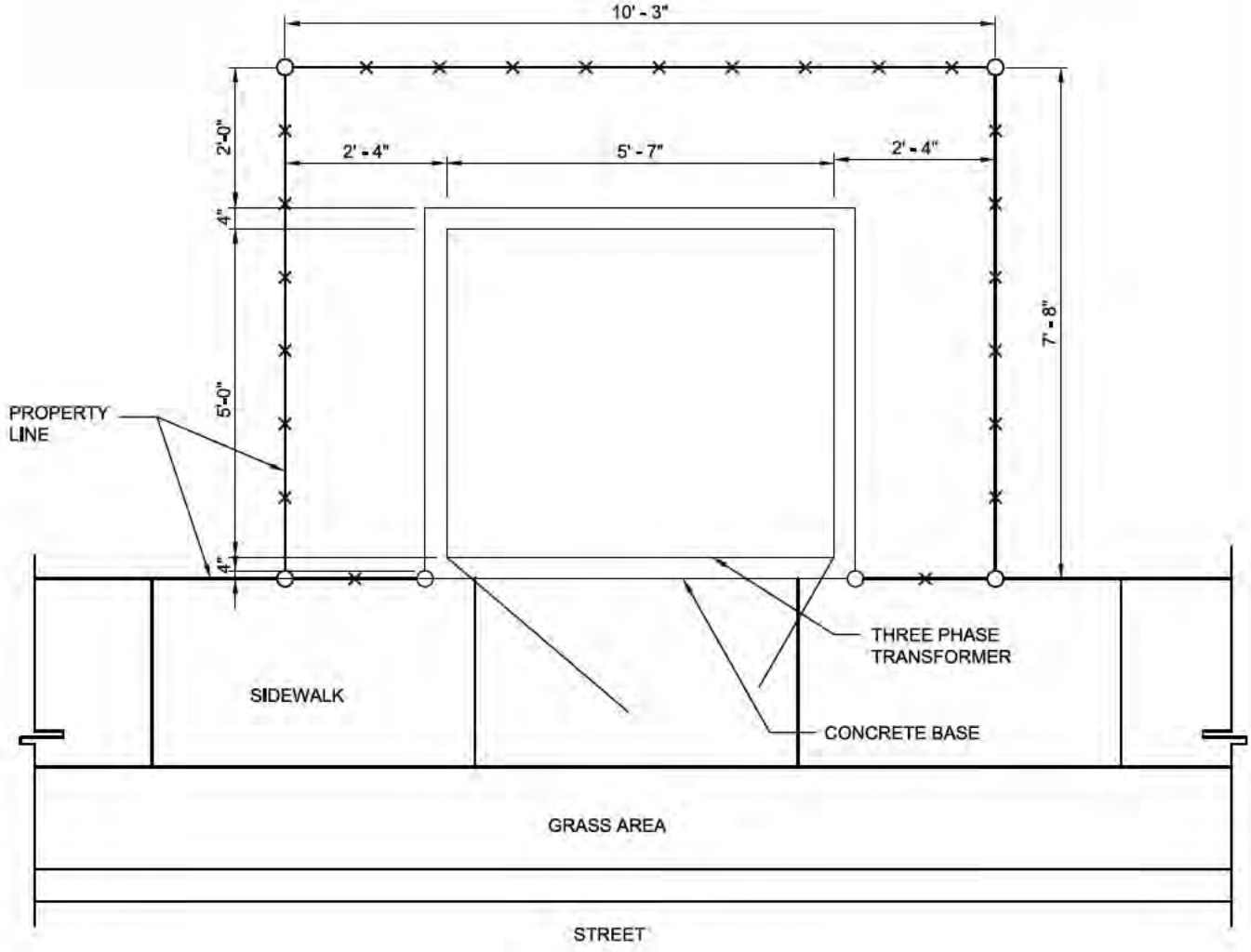
7 – FOR SECTIONAL CUTS "A–A" AND "B–B", SEE STANDARD URD–30B.

PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

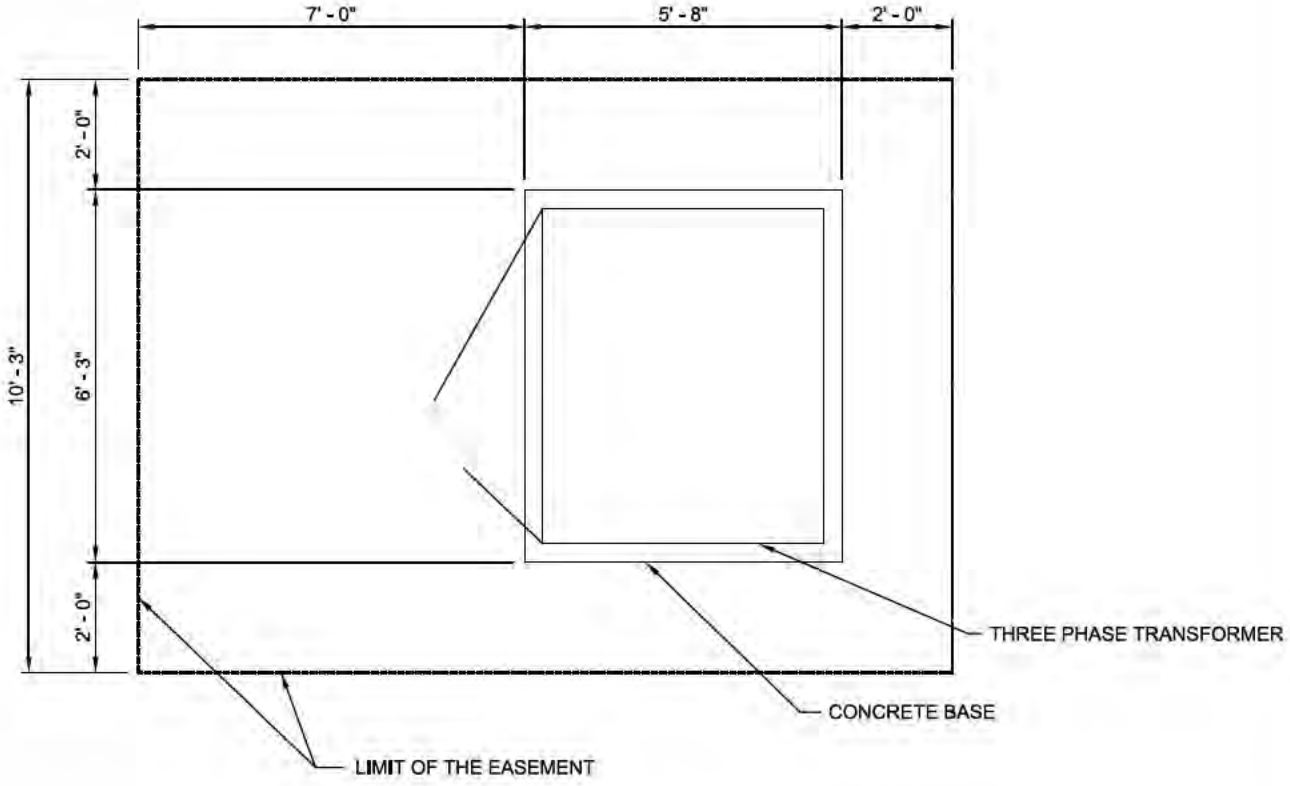
UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	
EASEMENT FOR THREE PHASE PAD MOUNTED TRANSFORMER	STANDARD NO. URD-40 REV 0 PAGE DATE REVIEWED SUBMITTED RECOMMENDED APPROVED DIGITIZED



PUERTO RICO ELECTRIC POWER AUTHORITY

DISTRIBUTION SYSTEM

UNDERGROUND DISTRIBUTION STANDARDS

TITLE:	STANDARD NO. URD-41 REV 0
EASEMENT FOR THREE PHASE PAD MOUNTED TRANSFORMER INSTALLED ON PUBLIC PROPERTY	PAGE _____ DATE _____ REVIEWED _____ SUBMITTED _____ RECOMMENDED _____ APPROVED _____ DIGITIZED _____