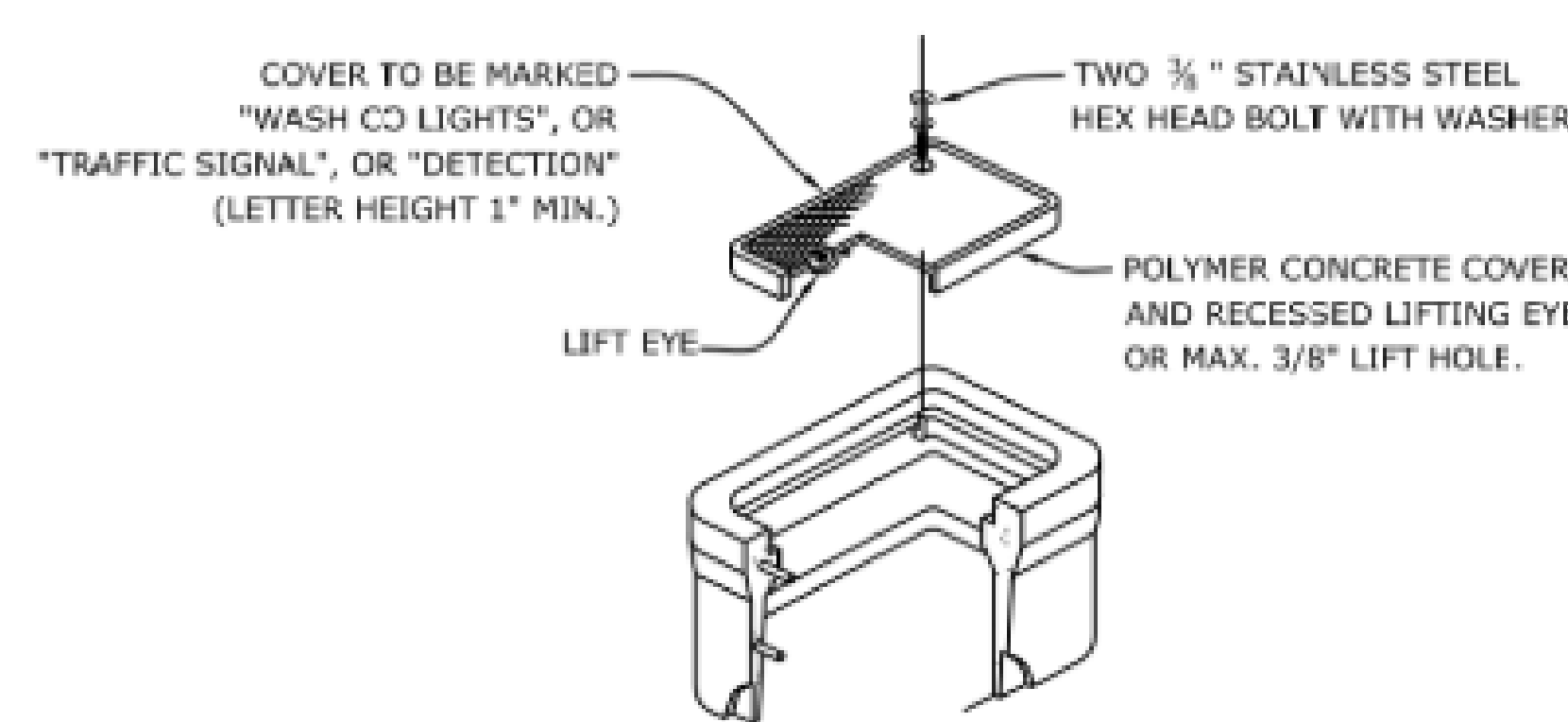
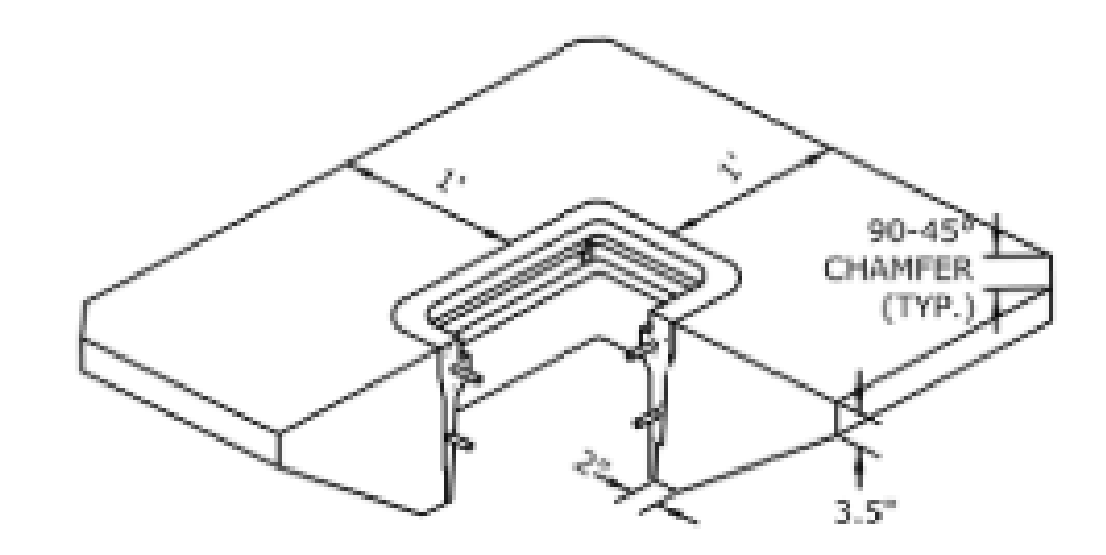


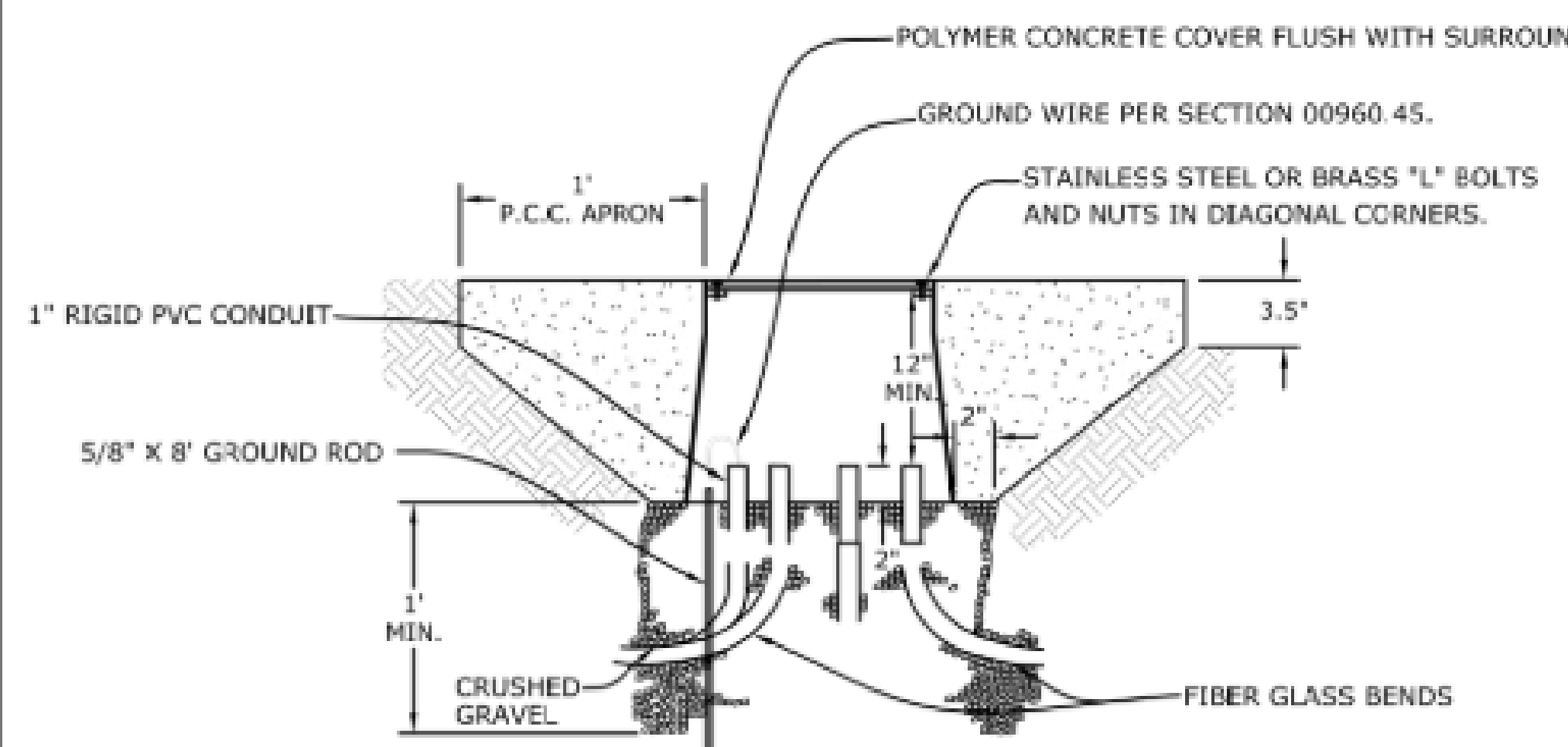
05/20/23 10:17:59 AM



TRAFFIC SIGNAL/ILLUMINATION JUNCTION BOX
NOT TO BE USED IN TRAVEL LANES, SHOULDERS OR AREAS EXPOSED TO TRAFFIC.



CONCRETE APRON AROUND JUNCTION BOX
(APPROX. 7 FT.² CONCRETE IN NEAT SECTION)



JUNCTION BOX INSTALLATION WITH APRON (NEAR ILLUMINATION POLE)
NOT TO SCALE

JB SIZE	W	L	D
JB 1	11"	18"	12"
JB 2	13"	24"	18"
JB 3	17"	30"	18"

NOTES:

- ILLUMINATION CIRCUIT WIRES ARE NOT SHOWN. SEE ILLUMINATION PLANS.
- ILLUMINATION CIRCUITS SHALL BE SPICED ACCORDING TO GENERAL NOTE 8.

ACCOMPANIED BY STANDARD DRAWING 6810, 6820, AND 6833

GENERAL NOTES:

- CONDUITS SHOWN ARE FOR EXAMPLE ONLY. ADDITIONAL CONDUITS MAY BE REQUIRED AS SHOWN ON THE PLAN SHEETS.
- FOR CONDUIT END TREATMENT REFER TO ODOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION (SEE SECTION 00960.42) AND OREGON STANDARD DRAWING LATEST EDITION (TM472).
- IN JUNCTION BOXES WHERE THERE ARE EXISTING WIRES AND CONDUITS, THE CONTRACTOR SHALL ADJUST THEM AS NECESSARY TO MAINTAIN THE SYSTEM WHEN WORK IS COMPLETE.
- JUNCTION BOXES AND COVERS SHALL BE RATED TIER 15 ACCORDING TO ANSI/SCTE 77-2007.
- JUNCTION BOXES SHALL BE INSTALLED BEHIND THE SIDEWALK OR IN THE PLANTER STRIP WHEN POSSIBLE.
- REFER TO SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS SECTION 00960, 00970, AND 02920 FOR APPROVED EQUIPMENT AND ADDITIONAL REQUIREMENTS.
- JUNCTION BOXES SHALL BE FLARED WITH SIZE AS SHOWN ON PLANS.
- FURNISH ELECTRICAL SPLICE MATERIAL MEETING THE FOLLOWING REQUIREMENTS:
 - SPLIT BOLT** - MADE OF SILICON BRONZE TO SECURELY JOIN THE WIRES BOTH MECHANICALLY AND ELECTRICALLY.
 - HEAT-SHRINK TUBING** - SURFACE IRRADIATED TUBE COMPLYING WITH UL 486, RATED AT 194°F WITH 600 V INNER MELTING WALL OR LINER TO PROVIDE VOID-FREE ENCAPSULATED INSULATION.
 - INSULATING RUBBER TAPE** - ELECTRICAL GRADE, NONDRYING, RUBBER BASED, ELASTIC TYPE CONFORMING TO ASTM D4388.

WASHINGTON COUNTY
DEPARTMENT OF LAND USE &
TRANSPORTATION
ENGINEERING SECTION

TRAFFIC ENGINEERING JUNCTION BOX DETAILS

WASH. CO. # 6831

WASHINGTON COUNTY
DEPARTMENT OF LAND USE &
TRANSPORTATION
ENGINEERING SECTION

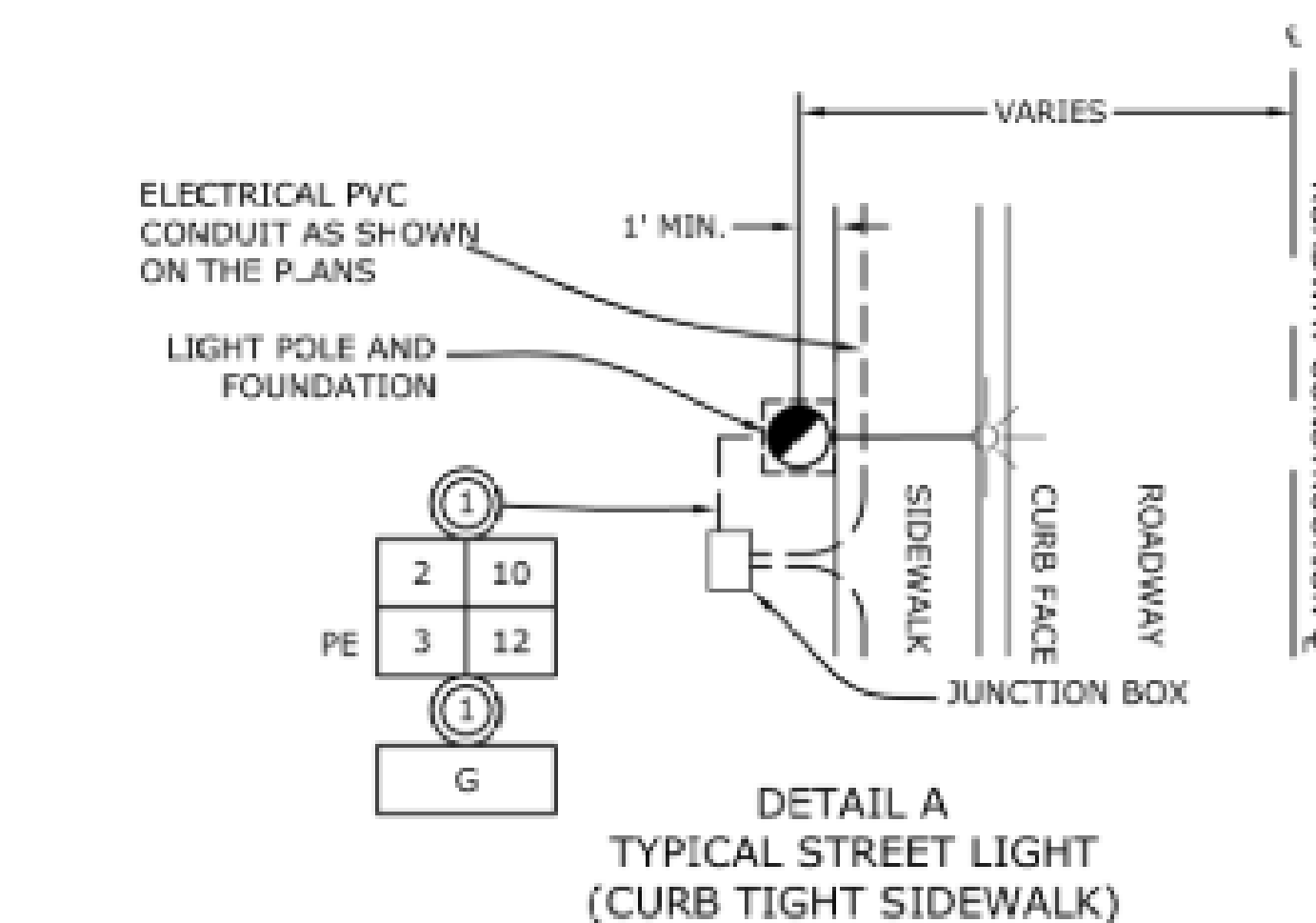
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WASH. CO. # 6831

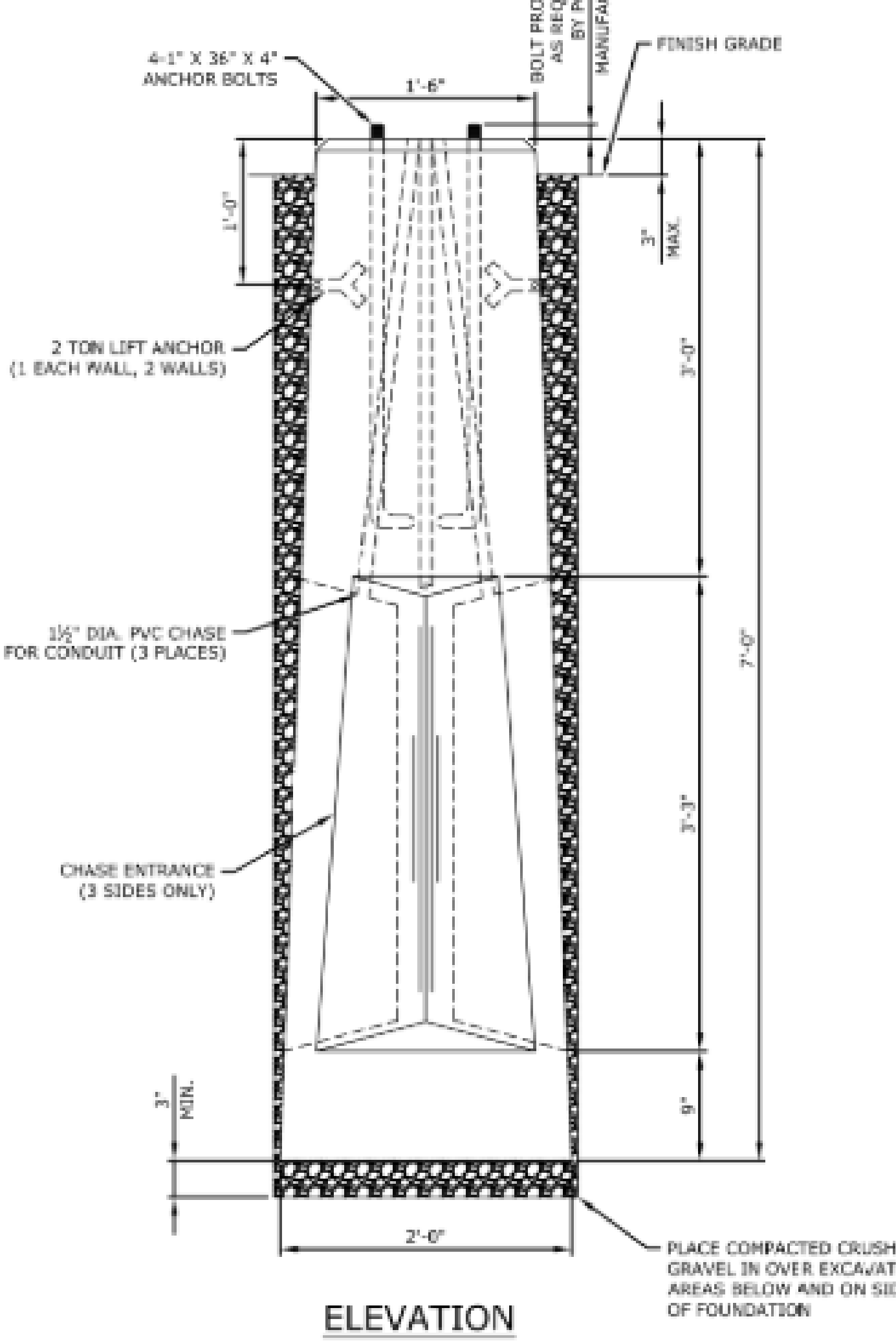
WASHINGTON COUNTY
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ENGINEERING SECTION

TRAFFIC ENGINEERING JUNCTION BOX DETAILS

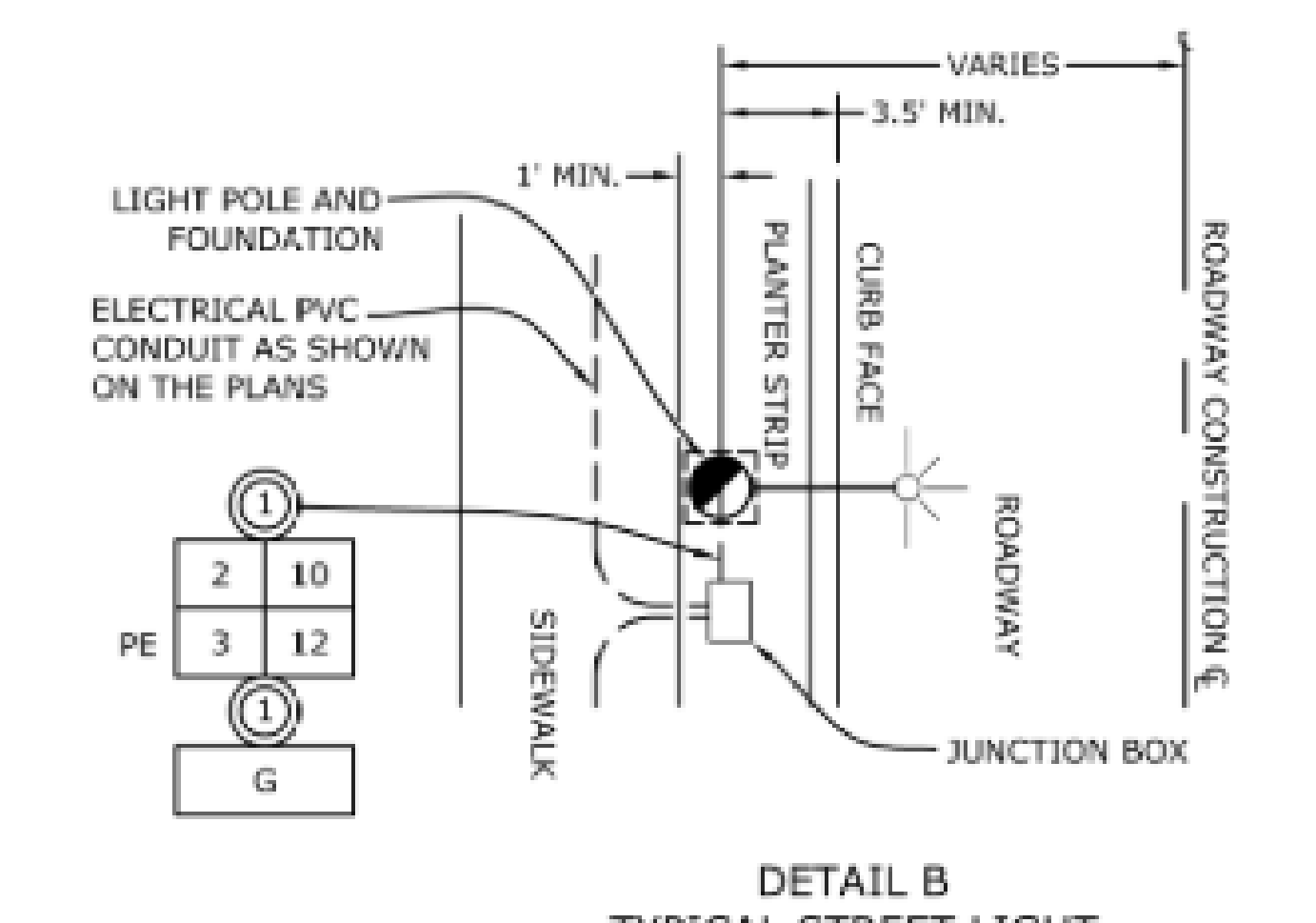
WASH. CO. # 6831



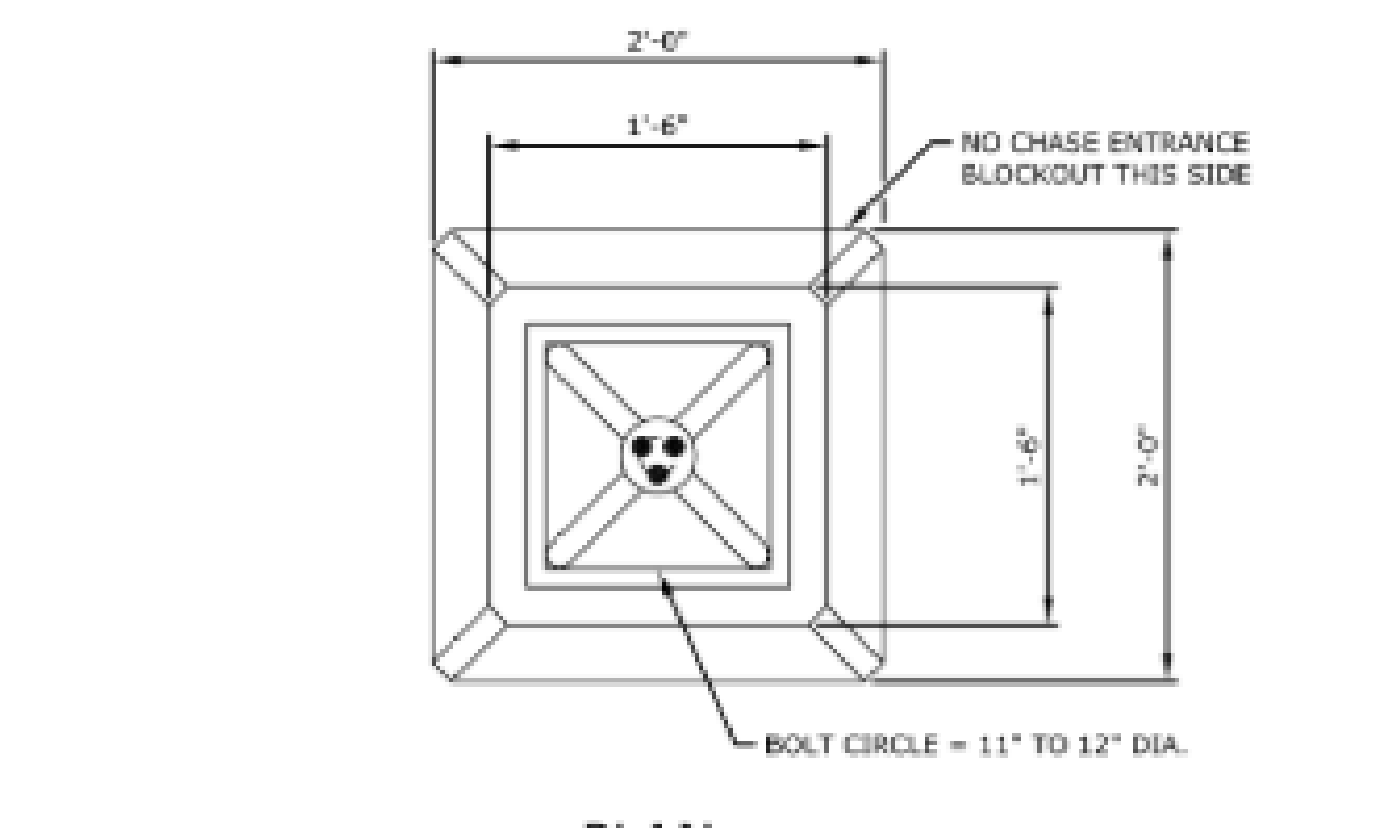
**DETAIL A
TYPICAL STREET LIGHT
(CURB TIGHT SIDEWALK)**
NOT TO SCALE



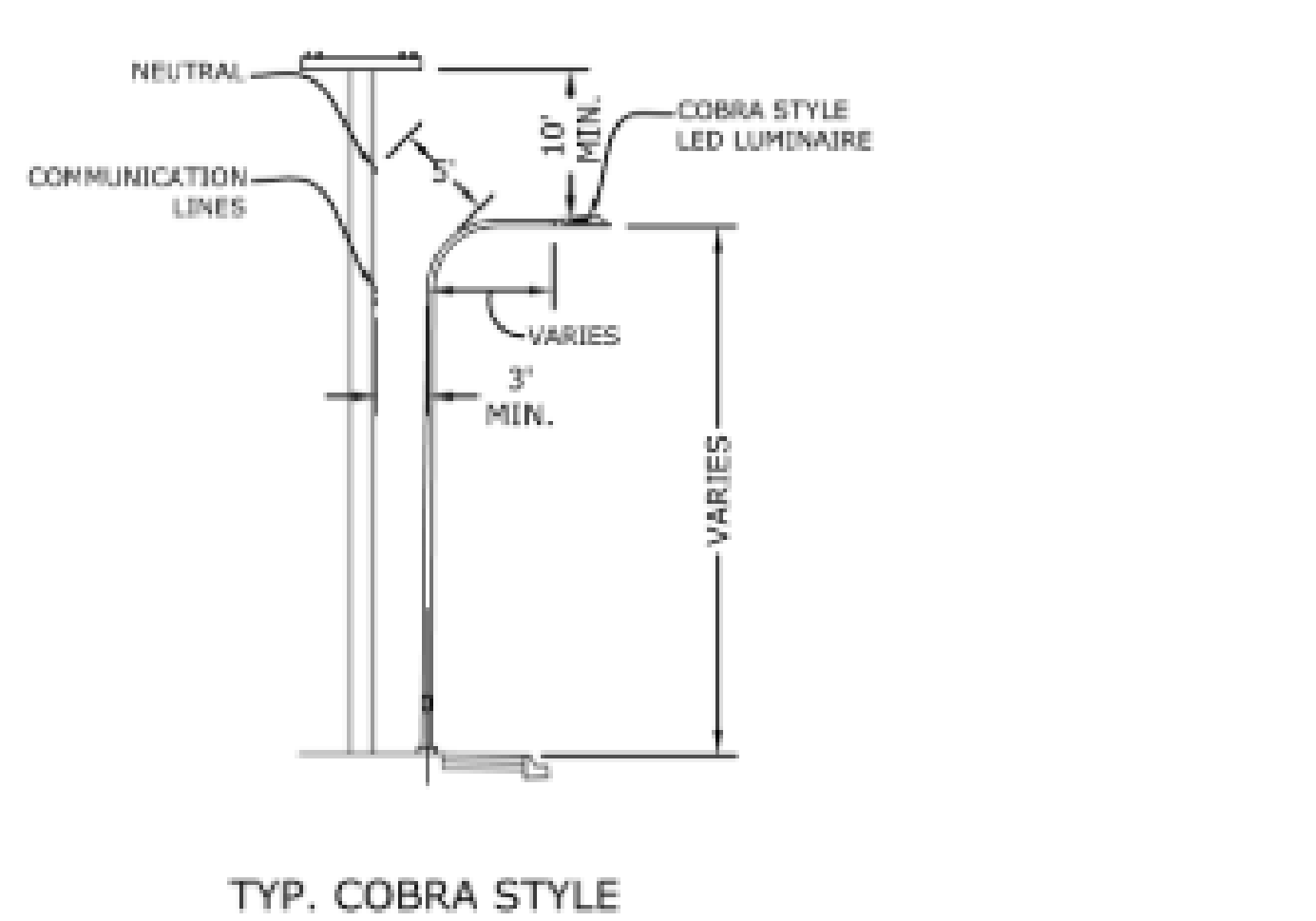
ELEVATION



**DETAIL B
TYPICAL STREET LIGHT
(SIDEWALK WITH PLANTER STRIP)**
NOT TO SCALE



PLAN



**TYP. COBRA STYLE
STREET-LIGHT
POLE DETAIL**
NOT TO SCALE

GENERAL NOTES:

- REFER TO SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS SECTION 00960 AND 00970 FOR APPROVED EQUIPMENT AND ADDITIONAL REQUIREMENTS.
- INSTALL LIGHT POLE MIN. 3' BEHIND FACE OF CURB PER AASHTO ROADSIDE DESIGN GUIDE 3.4.1.
- PROVIDE 3 FEET OF SLACK OF ALL CONDUCTORS IN EACH JUNCTION BOX.
- PROVIDE 20' OF SEPARATION BETWEEN STREET LIGHTS AND STREET TREES.
- POLE DESIGNED PER 2015 AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
- FOUNDATION DESIGN PER 2014 OREGON STRUCTURAL SPECIALTY CODE.
- FOUNDATION REINFORCEMENT PER FOUNDATION MANUFACTURER.
- ANCHORAGE AND BOLT CIRCLE DIAMETER PROVIDED BY POLE MANUFACTURER.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F_C OF 5500 PSI.
- SEE SPECIAL PROVISIONS SECTION 00960, 00962 FOR INSTALLATION REQUIREMENTS.
- REFER TO SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS SECTION 00960 AND 00970 FOR APPROVED EQUIPMENT AND ADDITIONAL REQUIREMENTS.

WASHINGTON COUNTY
DEPARTMENT OF LAND USE &
TRANSPORTATION
ENGINEERING SECTION

TYPICAL FOUNDATION FOR LUMINAIRE SUPPORTS AND TYPICAL LUMINAIRE DETAILS

WASH. CO. # 6820

WASHINGTON COUNTY
DEPARTMENT OF LAND USE &
TRANSPORTATION
ENGINEERING SECTION

TYPICAL FOUNDATION FOR LUMINAIRE SUPPORTS AND TYPICAL LUMINAIRE DETAILS

WASH. CO. # 6820

NOT FOR CONSTRUCTION



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REVISION	DATE	REASON FOR ISSUE
C1	05/26/23	LAND USE REVISION 3

**STREET LIGHTING
JUNCTION BOX
DETAILS**

LAND USE

DATE	PROJECT NUMBER
05.26.2023	22-1809

SHEET NUMBER
E0.03-LU

NOTE: DETAIL PROVIDED BY WASHINGTON COUNTY, NOT PREPARED BY ENGINEER OR RECORD



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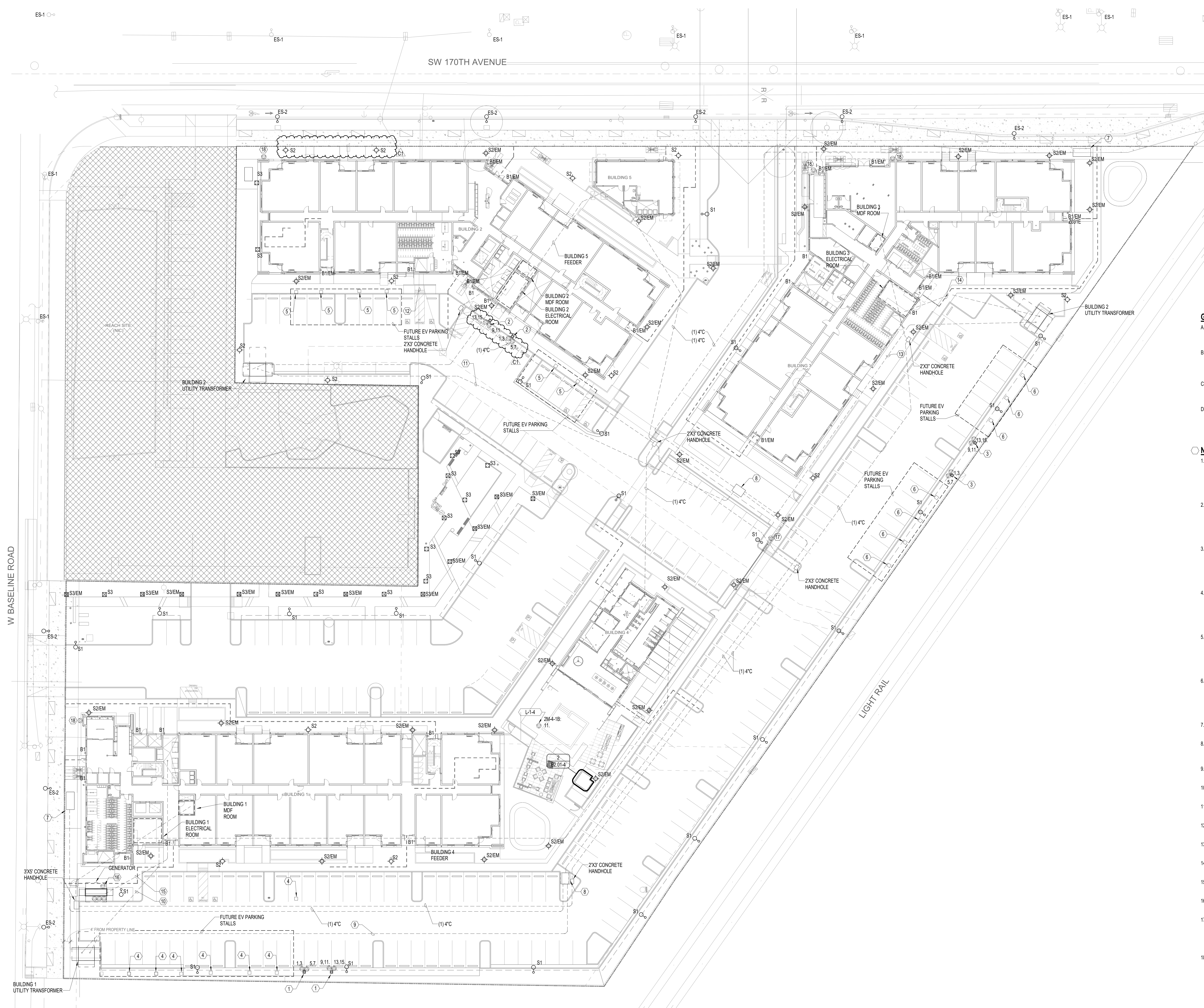


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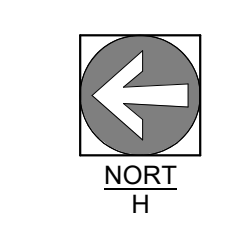
Address: 0921-1809 - Elmonica Apartments - 022252-1808 Elmonica Apartments - 022 Central



- GENERAL NOTES:**
- A. REFER TO ARCHITECTURAL AND LANDSCAPE SITE PLAN FOR EXACT LOCATIONS OF ALL LUMINAIRES AND ELECTRICAL EQUIPMENT.
 - B. PROVIDE MINIMUM #10 CONDUCTORS AND 1" CONDUIT FOR SERVICE TO ALL SITE POWER AND LIGHTING UNLESS OTHERWISE NOTED.
 - C. REFER TO PGE DESIGN DRAWINGS FOR ADDITIONAL INFORMATION FINAL DESIGN TO BE ESTABLISHED IN A FUTURE DESIGN PHASE.
 - D. SEE SHEET E0.03 FOR CIRCUIT INFORMATION OF ALL ZONE CONTROLLED LIGHTING.

- NOTES:**
1. PROVIDE AND INSTALL ELECTRIC VEHICLE (EV) CHARGING STATION. ROUTE (1) 2" CONDUIT AND (2) #8 PHASE, (1) #10 GROUND CONDUCTORS FROM LOCATION SHOWN TO PANEL 2EV-1-1A IN BUILDING 1. EV CHARGER WILL BE INSTALLED AS A DUAL PORT CHARGING STATION.
 2. PROVIDE AND INSTALL ELECTRIC VEHICLE (EV) CHARGING STATION. ROUTE (1) 2" CONDUIT AND (2) #8 PHASE, (1) #10 GROUND CONDUCTORS FROM LOCATION SHOWN TO 2EV-2-1A IN BUILDING 2. EV CHARGER WILL BE INSTALLED AS A DUAL PORT CHARGING STATION.
 3. PROVIDE AND INSTALL ELECTRIC VEHICLE (EV) CHARGING STATION. ROUTE (1) 2" CONDUIT AND (2) #8 PHASE, (1) #10 GROUND CONDUCTORS FROM LOCATION SHOWN TO 2EV-3-1A IN BUILDING 3. EV CHARGER WILL BE INSTALLED AS A DUAL PORT CHARGING STATION.
 4. PROVIDE AND INSTALL 24"W X 24"L X 12"D PULL BOX FOR FUTURE ELECTRIC VEHICLE (EV) CHARGING STATION. ROUTE (1) 2" CONDUIT WITH PULL STRING TO 2EV-1-1A IN BUILDING 1 FOR FUTURE CONDUCTOR INSTALLATION. EV CHARGER WILL BE INSTALLED AS A DUAL PORT CHARGING STATION IN THE FUTURE.
 5. PROVIDE AND INSTALL 24"W X 24"L X 12"D PULL BOX FOR FUTURE ELECTRIC VEHICLE (EV) CHARGING STATION. ROUTE (1) 2" CONDUIT WITH PULL STRING TO 2EV-2-1A IN BUILDING 2 FOR FUTURE CONDUCTOR INSTALLATION. EV CHARGER WILL BE INSTALLED AS A DUAL PORT CHARGING STATION IN THE FUTURE.
 6. PROVIDE AND INSTALL 24"W X 24"L X 12"D PULL BOX FOR FUTURE ELECTRIC VEHICLE (EV) CHARGING STATION. ROUTE (1) 2" CONDUIT WITH PULL STRING TO 2EV-3-1A IN BUILDING 3 FOR FUTURE CONDUCTOR INSTALLATION. EV CHARGER WILL BE INSTALLED AS A DUAL PORT CHARGING STATION IN THE FUTURE.
 7. PROVIDE AND INSTALL OLDCASTLE PRECAST S106 VAULT.
 8. PROVIDE AND INSTALL OLDCASTLE PRECAST S77 VAULT. PROVIDE LID WITH GALVANIZED STEEL DOOR. NO. 57-1-2-332P-PGE.
 9. PRIMARY CONDUIT AND CONDUCTORS. SEE E7.01 FOR ADDITIONAL INFORMATION.
 10. SECONDARY CONDUIT AND CONDUCTORS. SEE E.701 FOR ADDITIONAL INFORMATION.
 11. PRIMARY CONDUIT AND CONDUCTORS. SEE E7.02 FOR ADDITIONAL INFORMATION.
 12. SECONDARY CONDUIT AND CONDUCTORS. SEE E7.02 FOR ADDITIONAL INFORMATION.
 13. PRIMARY CONDUIT AND CONDUCTORS. SEE E7.03 FOR ADDITIONAL INFORMATION.
 14. SECONDARY CONDUIT AND CONDUCTORS. SEE E7.03 FOR ADDITIONAL INFORMATION.
 15. GENERATOR CONDUIT AND CONDUCTORS. SEE E7.01 FOR ADDITIONAL INFORMATION.
 16. GENERATOR EMERGENCY POWER OFF BUTTON. MOUNT TO WALL ADJACENT TO GENERATOR.
 17. PROVIDE 120V/1PH ELECTRICAL CONNECTION TO MOTORIZED GATE. PROVIDE (1) 1" CONDUIT WITH (2) #10 PHASE, (1) #10 GROUND CONDUCTORS FROM PANEL 2P-4-1A. PROVIDE ALL PATHWAYS REQUIRED BY MANUFACTURER FOR A COMPLETE SYSTEM.
 18. PROVIDE ELECTRICAL CONNECTION TO BUILDING SIGNAGE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.

1 SITE PLAN - ELECTRICAL
1" = 20'-0"



ELMONICA
SW 170TH AND W BASELINE
REMBOLD PROPERTIES

REVISION	DATE	REASON FOR ISSUE
A	01/09/23	LAND USE REVISION 1
C1	05/26/23	LAND USE REVISION 3

SITE PLAN - ELECTRICAL LAND USE

LAND USE

DATE: 05.26.2023 PROJECT NUMBER: 22-1809

SHEET NUMBER: E0.09-LU

NOT FOR CONSTRUCTION



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ELMONICA
SW 170TH AND W BASELINE

REMBOLD PROPERTIES

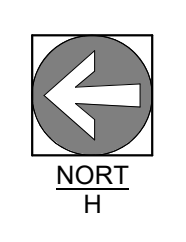
REVISION	DATE	REASON FOR ISSUE
B	04/04/23	PERMIT REVISION 1
C	04/28/23	LAND USE REVISION 2
C1	05/26/23	LAND USE REVISION 3

SITE PLAN - SITE PHOTOMETRICS - ELECTRICAL

LAND USE

DATE: 05.26.2023 PROJECT NUMBER: 22-1809

SHEET NUMBER: E0.10-LU



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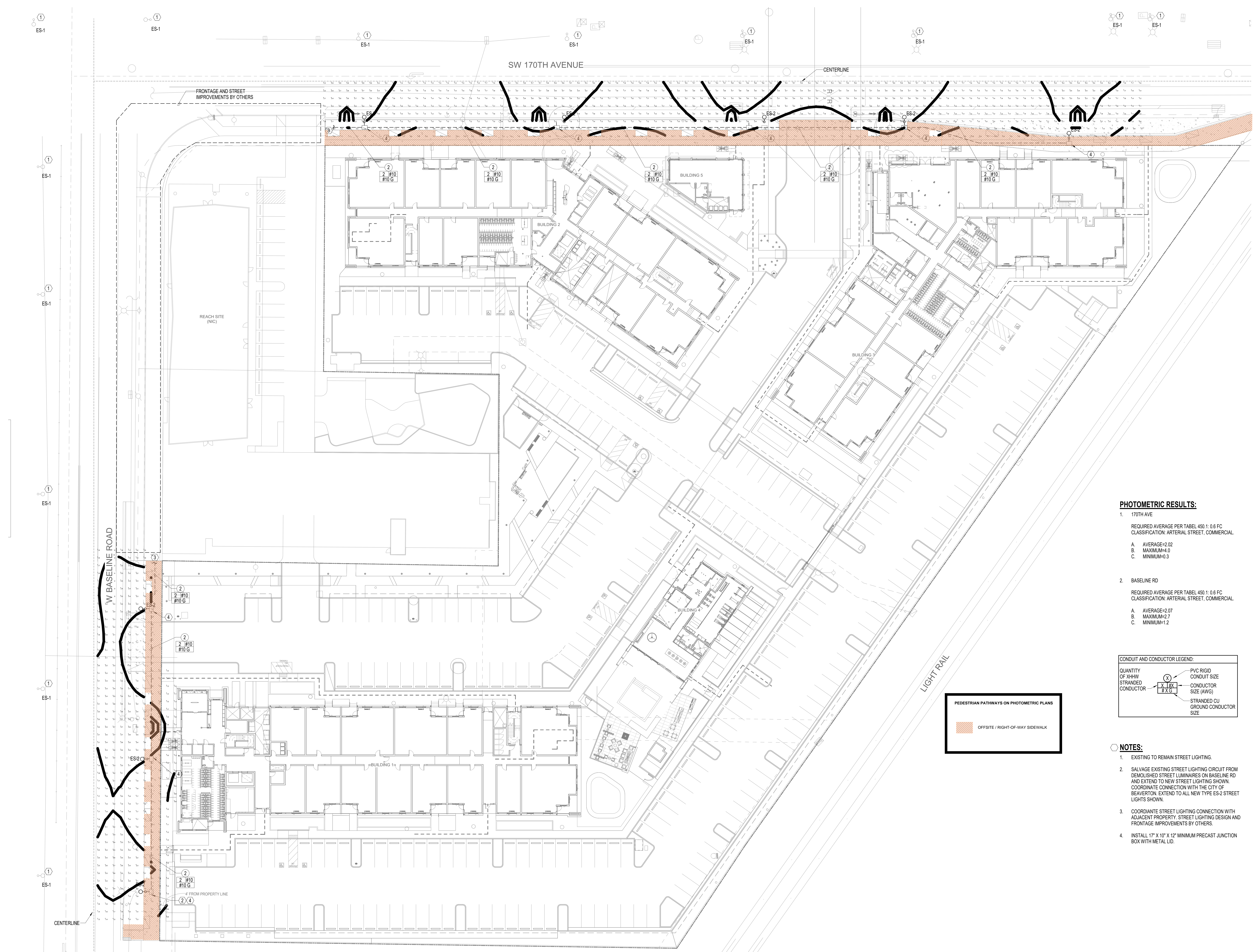
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PHOTOMETRIC RESULTS:

- 170TH AVE**
 REQUIRED AVERAGE PER TABEL 450.1: 0.6 FC
 CLASSIFICATION: ARTERIAL STREET, COMMERCIAL
 A. AVERAGE=2.02
 B. MAXIMUM=4.0
 C. MINIMUM=0.3
- BASELINE RD**
 REQUIRED AVERAGE PER TABEL 450.1: 0.6 FC
 CLASSIFICATION: ARTERIAL STREET, COMMERCIAL
 A. AVERAGE=2.07
 B. MAXIMUM=2.7
 C. MINIMUM=1.2

CONDUIT AND CONDUCTOR LEGEND:

QUANTITY OF STRANDED CONDUCTOR	(X) Y Z	PVC RIGID CONDUIT SIZE
	(X) Y Z	CONDUCTOR SIZE (AWG)
	(X) Y Z	STRANDED CU GROUND CONDUCTOR SIZE



NOTES:

- EXISTING TO REMAIN STREET LIGHTING.
- SALVAGE EXISTING STREET LIGHTING CIRCUIT FROM DEMOLISHED STREET LUMINAIRES ON BASELINE RD AND EXTEND TO NEW STREET LIGHTING SHOWN. COORDINATE CONNECTION WITH THE CITY OF BEAVERTON. EXTEND TO ALL NEW TYPE ES-2 STREET LIGHTS SHOWN.
- COORDINATE STREET LIGHTING CONNECTION WITH ADJACENT PROPERTY STREET LIGHTING DESIGN AND FRONTAGE IMPROVEMENTS BY OTHERS.
- INSTALL 17" X 10" X 12" MINIMUM PRECAST JUNCTION BOX WITH METAL LID.

ELMONICA
 SW 170TH AND W BASELINE
 REMBOLD PROPERTIES

REVISION	DATE	REASON FOR ISSUE
A	01/09/23	LAND USE REVISION 1
C	04/28/23	LAND USE REVISION 2

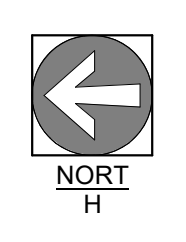
SITE PLAN - STREET PHOTOMETRICS - ELECTRICAL

LAND USE

DATE: 05.26.2023 PROJECT NUMBER: 22-1809

SHEET NUMBER

E0.11-LU





Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 1 (22-1809)
 Project Type: New Construction

Construction Site:
 SW 170TH AND W BASELINE
 Beaverton, Oregon 97006

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Multifamily	30180	0.45	13581
Total Allowed Watts =			13581

Proposed Interior Lighting Power

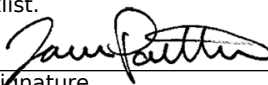
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>1-Multifamily</u>				
LED: B2: SEE LUMINAIRE SCHEDULE: Other:	1	13	12	156
LED: L4: SEE LUMINAIRE SCHEDULE: Other:	1	181	17	3077
LED: L5: SEE LUMINAIRE SCHEDULE: Other:	1	18	18	315
LED: L6: SEE LUMINAIRE SCHEDULE: Other:	1	2	8	16
LED: L9: SEE LUMINAIRE SCHEDULE: Other:	1	4	15	60
LED: L11: SEE LUMINAIRE SCHEDULE: Other:	1	81	11	891
LED: L12: SEE LUMINAIRE SCHEDULE: Other:	1	10	24	240
LED: L15: SEE LUMINAIRE SCHEDULE: Other:	1	4	15	60
LED: L16: SEE LUMINAIRE SCHEDULE: Other:	1	5	6	30
LED: L18: SEE LUMINAIRE SCHEDULE: Other:	1	12	35	420
LED: L26: SEE LUMINAIRE SCHEDULE: Other:	1	9	42	378
LED: L27: SEE LUMINAIRE SCHEDULE: Other:	1	49	38	1862
LED: L28: SEE LUMINAIRE SCHEDULE: Other:	1	22	40	880
Total Proposed Watts =				8385

Interior Lighting PASSES: Design 38% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jarren Parthemer - Electrical Designer
 Name - Title


 Signature

03/02/2023
 Date



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 1 (22-1809)
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Residentially zoned area (LZ2))

Construction Site:
 SW 170TH AND W BASELINE
 Beaverton, Oregon 97006

Owner/Agent:

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	39224 ft2	0.04	Yes	1569
Total Tradable Watts (a) =				3807
Total Allowed Watts =				3807
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>Parking area (39224 ft2): Tradable Wattage</u>				
LED: B1: SEE LUMINAIRE SCHEDULE: Other:	1	26	4	104
LED: S2: SEE LUMINAIRE SCHEDULE: Other:	1	35	30	1050
LED: S3: SEE LUMINAIRE SCHEDULE: Other:	1	22	15	330
LED: S1: SEE LUMINAIRE SCHEDULE: Other:	1	24	70	1680
<u>Walkway >= 10 feet wide (22379 ft2): Tradable Wattage</u>				
Total Tradable Proposed Watts =				3164

Exterior Lighting PASSES: Design 25% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date



Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02,E0.03, SPEC 26 09 93, E0.10

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E7.01
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1a [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1b [EL26] ²	No lighting shall be automatically turned on - restricted to manual.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Manual on function would endanger safety and security. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1c [EL27] ²	<= 50% of general lighting power shall be allowed to be automatically turned on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1d [EL28] ²	Bilevel lighting control - <= 50% of general lighting controlled with one intermediate step between full off and full on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1e [EL29] ²	Automatic daylight responsive controls for sidelighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1f [EL30] ²	Automatic daylight responsive controls for toplighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1g [EL31] ²	Automatic partial OFF: lighting shall be reduced >= 50% within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1h [EL32] ²	Automatic full OFF: lighting shall be shut off within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.1i [EL33] ²	Scheduled shutoff: all lighting shall be shut off when scheduled to be unoccupied.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1
9.4.1.4 [EL3] ²	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02,E0.03, SPEC 26 09 93, E0.10
9.4.1.4d [EL21] ²	Outdoor parking area luminaires >= 78W and <= 24 ft height controlled to reduce wattage by 50% when area unoccupied over 15 minutes. Controlled power limited to <= 1500W.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02,E0.03, SPEC 26 09 93, E0.10
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
9.4.2 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have ≥ 55 lm/W efficacy or a ≥ 45 lm/W total luminaire efficacy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Lighting is controlled by dimmers or automatic control devices. Location on plans/spec: E0.03, SPEC 26 09 93, E3.01-1, E3.02-1, E3.03-1, E3.04-1, E3.05-1, E3.06-1, E3.07-1

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 2 (22-1809)
 Project Type: New Construction

Construction Site: SW 170TH AND W BASELINE
 Beaverton, Oregon 97006
 Owner/Agent:
 Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Multifamily	23047	0.45	10371
Total Allowed Watts =			10371

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>1-Multifamily</u>				
LED: B2: SEE LUMINAIRE SCHEDULE: Other:	1	13	12	156
LED: L4: SEE LUMINAIRE SCHEDULE: Other:	1	159	17	2703
LED: L5: SEE LUMINAIRE SCHEDULE: Other:	1	38	18	665
LED: L9: SEE LUMINAIRE SCHEDULE: Other:	1	4	18	72
LED: L11: SEE LUMINAIRE SCHEDULE: Other:	1	85	11	935
LED: L12: SEE LUMINAIRE SCHEDULE: Other:	1	2	24	48
LED: L14: SEE LUMINAIRE SCHEDULE: Other:	1	1	15	15
LED: L15: SEE LUMINAIRE SCHEDULE: Other:	1	4	15	60
LED: L16: SEE LUMINAIRE SCHEDULE: Other:	1	5	6	30
LED: L18: SEE LUMINAIRE SCHEDULE: Other:	1	7	35	245
LED: L23: W/LF; SEE LUMINAIRE SCHEDULE: Other:	1	43	11	473
LED: L26: SEE LUMINAIRE SCHEDULE: Other:	1	10	42	420
LED: L27: SEE LUMINAIRE SCHEDULE: Other:	1	33	38	1254
LED: L28: SEE LUMINAIRE SCHEDULE: Other:	1	22	40	880
Total Proposed Watts =				7956

Interior Lighting PASSES: Design 23% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jarren Parthemer - Electrical Designer
 Name - Title


 Signature

03/02/2023
 Date



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 2 (22-1809)
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site:
 SW 170TH AND W BASELINE
 Beaverton, Oregon 97006

Owner/Agent:

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	39224 ft2	0.04	Yes	1569
Total Tradable Watts (a) =				3380
Total Allowed Watts =				3380
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>Parking area (39224 ft2): Tradable Wattage</u>				
LED: B1: SEE LUMINAIRE SCHEDULE: Other:	1	26	4	104
LED: S1: SEE LUMINAIRE SCHEDULE: Other:	1	23	70	1610
LED: S2: SEE LUMINAIRE SCHEDULE: Other:	1	35	30	1050
LED: S3: SEE LUMINAIRE SCHEDULE: Other:	1	22	15	330
<u>Walkway >= 10 feet wide (18114 ft2): Tradable Wattage</u>				
Total Tradable Proposed Watts =				3094

Exterior Lighting PASSES: Design 18% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date



Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02,E0.03, SPEC 26 09 93, E0.10

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E7.01
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1a [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1b [EL26] ²	No lighting shall be automatically turned on - restricted to manual.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Manual on function would endanger safety and security.
9.4.1.1c [EL27] ²	<= 50% of general lighting power shall be allowed to be automatically turned on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1d [EL28] ²	Bilevel lighting control - <= 50% of general lighting controlled with one intermediate step between full off and full on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1e [EL29] ²	Automatic daylight responsive controls for sidelighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1f [EL30] ²	Automatic daylight responsive controls for toplighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1g [EL31] ²	Automatic partial OFF: lighting shall be reduced >= 50% within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1h [EL32] ²	Automatic full OFF: lighting shall be shut off within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.1i [EL33] ²	Scheduled shutoff: all lighting shall be shut off when scheduled to be unoccupied.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2
9.4.1.4 [EL3] ²	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02,E0.03, SPEC 26 09 93, E0.10
9.4.1.4d [EL21] ²	Outdoor parking area luminaires >= 78W and <= 24 ft height controlled to reduce wattage by 50% when area unoccupied over 15 minutes. Controlled power limited to <= 1500W.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02,E0.03, SPEC 26 09 93, E0.10
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
9.4.2 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have ≥ 55 lm/W efficacy or a ≥ 45 lm/W total luminaire efficacy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Lighting is controlled by dimmers or automatic control devices. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-2, E3.02-2, E3.03-2, E3.04-2, E3.05-2, E3.06-2

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 3 (22-1809)
 Project Type: New Construction

Construction Site: SW 170TH AND W BASELINE
 Beaverton, Oregon 97006
 Owner/Agent: _____
 Designer/Contractor: _____

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Multifamily	33755	0.45	15190
Total Allowed Watts =			15190

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>1-Multifamily</u>				
LED: B2: SEE LUMINAIRE SCHEDULE: Other:	1	13	12	156
LED: L4: SEE LUMINAIRE SCHEDULE: Other:	1	165	17	2805
LED: L5: SEE LUMINAIRE SCHEDULE: Other:	1	45	18	788
LED: L6: SEE LUMINAIRE SCHEDULE: Other:	1	1	8	8
LED: L9: SEE LUMINAIRE SCHEDULE: Other:	1	3	15	45
LED: L10: SEE LUMINAIRE SCHEDULE: Other:	1	3	27	81
LED: L11: SEE LUMINAIRE SCHEDULE: Other:	1	86	11	946
LED: L12: SEE LUMINAIRE SCHEDULE: Other:	1	5	24	120
LED: L15: SEE LUMINAIRE SCHEDULE: Other:	1	1	15	15
LED: L16: SEE LUMINAIRE SCHEDULE: Other:	1	5	6	30
LED: L18: SEE LUMINAIRE SCHEDULE: Other:	1	3	35	105
LED: L23: W/LF; SEE LUMINAIRE SCHEDULE: Other:	1	23	11	253
LED: L25: SEE LUMINAIRE SCHEDULE: Other:	1	14	20	280
LED: L26: SEE LUMINAIRE SCHEDULE: Other:	1	7	42	294
LED: L27: SEE LUMINAIRE SCHEDULE: Other:	1	62	38	2356
LED: L28: SEE LUMINAIRE SCHEDULE: Other:	1	22	40	880
LED: L33: SEE LUMINAIRE SCHEDULE: Other:	1	3	60	180
Total Proposed Watts =			9342	


Interior Lighting PASSES: Design 39% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jarren Parthemer - Electrical Designer

Name - Title


Signature

03/02/2023

Date



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 3 (22-1809)
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site:
 SW 170TH AND W BASELINE
 Beaverton, Oregon 97006

Owner/Agent:

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	39224 ft2	0.04	Yes	1569
Total Tradable Watts (a) =				2776
Total Allowed Watts =				2776
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>Parking area (39224 ft2): Tradable Wattage</u>				
LED: S1: SEE LUMINAIRE SCHEDULE: Other:	1	24	70	1680
LED: S2: SEE LUMINAIRE SCHEDULE: Other:	1	35	30	1050
LED: S3: SEE LUMINAIRE SCHEDULE: Other:	1	22	15	330
<u>Walkway >= 10 feet wide (12069 ft2): Tradable Wattage</u>				
Total Tradable Proposed Watts =				3060

Exterior Lighting PASSES: Design 4% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date



Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 86.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to control system and displayed graphically.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E7.01
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1a [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1b [EL26] ²	No lighting shall be automatically turned on - restricted to manual.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Manual on function would endanger safety and security. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1c [EL27] ²	<= 50% of general lighting power shall be allowed to be automatically turned on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1d [EL28] ²	Bilevel lighting control - <= 50% of general lighting controlled with one intermediate step between full off and full on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1e [EL29] ²	Automatic daylight responsive controls for sidelighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1f [EL30] ²	Automatic daylight responsive controls for toplighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1g [EL31] ²	Automatic partial OFF: lighting shall be reduced >= 50% within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1h [EL32] ²	Automatic full OFF: lighting shall be shut off within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.1i [EL33] ²	Scheduled shutoff: all lighting shall be shut off when scheduled to be unoccupied.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3
9.4.1.4 [EL3] ²	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.4d [EL21] ²	Outdoor parking area luminaires >= 78W and <= 24 ft height controlled to reduce wattage by 50% when area unoccupied over 15 minutes. Controlled power limited to <= 1500W.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
9.4.2 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have ≥ 55 lm/W efficacy or a ≥ 45 lm/W total luminaire efficacy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Lighting is controlled by dimmers or automatic control devices. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-3, E3.02-3, E3.03-3, E3.04-3, E3.05-3, E3.06-3

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 4 (22-1809)
 Project Type: New Construction

Construction Site:
 SW 170TH AND W BASELINE
 Beaverton, Oregon 97006

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Exercise Center	2956	0.72	2128
Total Allowed Watts =			2128

Proposed Interior Lighting Power

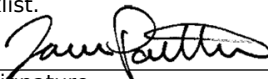
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>1-Exercise Center</u>				
LED: B2: SEE LUMINAIRE SCHEDULE: Other:	1	13	12	156
LED: L1: SEE LUMINAIRE SCHEDULE: Other:	1	9	46	410
LED: L2: SEE LUMINAIRE SCHEDULE: Other:	1	5	22	110
LED: L3: SEE LUMINAIRE SCHEDULE: Other:	1	6	10	57
LED: L5: SEE LUMINAIRE SCHEDULE: Other:	1	38	18	665
LED: L8: SEE LUMINAIRE SCHEDULE: Other:	1	4	15	60
LED: L11: SEE LUMINAIRE SCHEDULE: Other:	1	2	11	22
LED: L12: SEE LUMINAIRE SCHEDULE: Other:	1	10	24	240
LED: L19: SEE LUMINAIRE SCHEDULE: Other:	1	1	30	30
LED: L21: SEE LUMINAIRE SCHEDULE: Other:	1	6	20	120
LED: L23: W/LF; SEE LUMINAIRE SCHEDULE: Other:	1	12	11	132
Total Proposed Watts =				2002

Interior Lighting PASSES: Design 6% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jarren Parthemer - Electrical Designer
 Name - Title


 Signature

03/02/2023
 Date



Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

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Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1a [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1b [EL26] ²	No lighting shall be automatically turned on - restricted to manual.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1c [EL27] ²	<= 50% of general lighting power shall be allowed to be automatically turned on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1d [EL28] ²	Bilevel lighting control - <= 50% of general lighting controlled with one intermediate step between full off and full on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1e [EL29] ²	Automatic daylight responsive controls for sidelighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1f [EL30] ²	Automatic daylight responsive controls for toplighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1g [EL31] ²	Automatic partial OFF: lighting shall be reduced >= 50% within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1h [EL32] ²	Automatic full OFF: lighting shall be shut off within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.4.1.1i [EL33] ²	Scheduled shutoff: all lighting shall be shut off when scheduled to be unoccupied.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E3.01-4

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Interior Lighting fixture schedule for values.</i>
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have ≥ 55 lm/W efficacy or a ≥ 45 lm/W total luminaire efficacy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Elmonica Building 5 (22-1809)
 Project Type: New Construction

Construction Site:
 SW 170TH AND W BASELINE
 Beaverton, Oregon 97006

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Retail	1418	0.84	1191
Total Allowed Watts =			1191

Proposed Interior Lighting Power

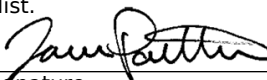
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Retail LED: L27: SEE LUMINAIRE SCHEDULE: Other:	1	6	38	228
Total Proposed Watts =				228

Interior Lighting PASSES: Design 81% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jarren Parthemer - Electrical Designer
 Name - Title


 Signature

03/02/2023
 Date



Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Space type is not private office, open office, or computer classroom. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to control system and displayed graphically.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E7.01
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
9.4.1.1a [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
9.4.1.1b [EL26] ²	No lighting shall be automatically turned on - restricted to manual.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
9.4.1.1c [EL27] ²	<= 50% of general lighting power shall be allowed to be automatically turned on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
9.4.1.1d [EL28] ²	Bilevel lighting control - <= 50% of general lighting controlled with one intermediate step between full off and full on.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
9.4.1.1e [EL29] ²	Automatic daylight responsive controls for sidelighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
9.4.1.1f [EL30] ²	Automatic daylight responsive controls for toplighting >= 150 watts controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
9.4.1.1g [EL31] ²	Automatic partial OFF: lighting shall be reduced >= 50% within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
9.4.1.1h [EL32] ²	Automatic full OFF: lighting shall be shut off within 20 minutes of zero occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
9.4.1.1i [EL33] ²	Scheduled shutoff: all lighting shall be shut off when scheduled to be unoccupied.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1)
2 Medium Impact (Tier 2)
3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E0.02, E0.03, SPEC 26 09 93, E2.01-5

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Interior Lighting fixture schedule for values.</i>
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have ≥ 55 lm/W efficacy or a ≥ 45 lm/W total luminaire efficacy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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WEDGE1 LED

Architectural Wall Sconce



Catalog Number

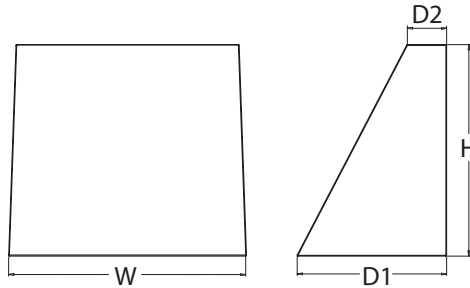
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

- Depth (D1):** 5.5"
- Depth (D2):** 1.5"
- Height:** 8"
- Width:** 9"
- Weight:** 9 lbs
(without options)



Introduction

The WEDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WEDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WEDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WEDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WEDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WEDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WEDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WEDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WEDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WEDGE1 LED	P1 P2	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT 347 ²	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁵ Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.
		30K 3000K	90CRI	VW Visual comfort wide		
		35K 3500K				
		40K 4000K				
		50K ¹ 5000K				

Options	Finish
E4WH ³ Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)	DDBXD Dark bronze
PE ⁴ Photocell, Button Type	DBLXD Black
DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)	DNAXD Natural aluminum
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD White
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD Sandstone
BAA Buy America(n) Act Compliant	DDBTXD Textured dark bronze
	DBLTXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

- WDGEAWS DDBXD WEDGE 3/8inch Architectural Wall Spacer (specify finish)
- WDGE1PBBW DDBXD U WEDGE1 surface-mounted back box (specify finish)

NOTES

- 1 50K not available in 90CRI.
- 2 347V not available with E4WH, DS or PE.
- 3 E4WH not available with PE or DS.
- 4 PE not available with DS.
- 5 Not qualified for DLC. Not available with E4WH.



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WEDGE1 LED
Rev. 11/21/22

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C / 32°F	1.03
10°C / 50°F	1.02
20°C / 68°F	1.01
25°C / 77°F	1.00
30°C / 86°F	0.99
40°C / 104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

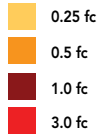
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

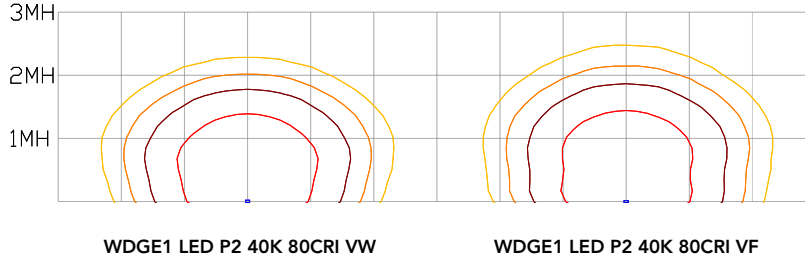
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND



MH = 8ft
Grid = 8ft x 8ft



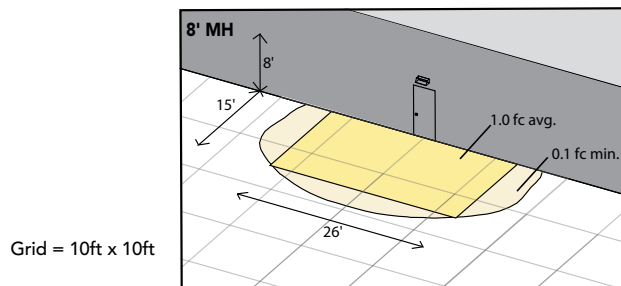
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.

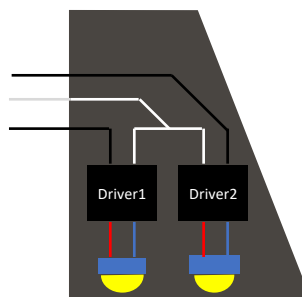


WDGE1 LED xx 40K 80CRI VF MVOLT E4WH

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9





E4WH – 4W Emergency Battery Backup

D = 5.5"

H = 8"

W = 9"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

SRS Series

Straight Round Steel Poles

Rev. Date: V6 08/08/2022

Product Description

Non-tapered round steel poles are supplied with a formed composite 2-piece base cover, four partially galvanized anchor bolts, cardboard mounting template and pole cap (except open top mount). Steel pole base has slotted holes to accommodate installation. A standard 2" x 4" hand hole is located 14" above the bottom of the pole base. A 1/2" stainless-steel weld stud with grounding lug is located inside the pole, opposite the hand hole.

Cree Lighting poles are steel shot cleaned to remove any rust, mill scale, oxides, or other unwanted particles from the pole resulting in a surface preparation that exceeds the specifications published by the SSPC-SP10. Iron phosphate is then applied, creating an iron oxide base with a flat or amorphous metal phosphate topcoat. This coating significantly adds to the performance of the finished coating by improving bonding and minimizing the spread of oxidation if the coating is scratched, improving corrosion resistance. Polyester powder coating is applied to a 6-mil thickness.

CONSTRUCTION & MATERIALS

- Round, non-tapered pole of structural steel tubing (ASTM A 500 Grade B) with a minimum yield strength of 46,000 p.s.i. welded to a carbon steel base plate (ASTM A-36 HRS) with a minimum yield strength of 36,000 p.s.i.
- Anchor bolts (F1554 Grade 55) are "L" bent bars having a minimum yield strength of 55,000 p.s.i. The bolts are partially galvanized per ASTM A153 specifications and furnished complete with two hex nuts and two flat washers
- Base cover is 2 pc. formed composite to match finish color on pole. Base cover connects with four push pins included
- Pole cap is black ABS composite and inserts into the top of the pole
- Optional GFI receptacle available. Refer to page 2 for details

REGULATORY & VOLUNTARY QUALIFICATIONS

- National Electrical Code Requirements
- UL Listed in US for electrical ground bonding
- CSA Certified in Canada for ground bonding and structural strength
- RoHS Compliant (consult factory for details)

LIMITED WARRANTY*

- 7 years on pole and tenons/7 years on finish/1 year on GFI receptacle

* See <http://creelighting.com/warranty> for warranty terms

Ordering Information

Fully assembled pole is composed of two components that must be ordered separately.

Example: **Anchor Bolts w/Template:** SRS-5-AB-3/4-28 + **Pole:** SRS-5-11-12-SW-BS-1D-C-BK

Anchor Bolts /Templates (Pole must be ordered separately)
SRS-5-AB-3/4-28
SRS-5-AB-3/4-28 Anchor Bolts & Template for 5" Round Poles: 0.75" anchor bolts, 8.5" bolt circle (8-9" range)

Pole (Anchor bolts must be ordered separately)													
SRS			5	11		SW	BS						
Design	Cross Section	Material	Shaft Size	Wall Thickness (GA)	Mounting Height	Base Type	Base Casting/Cover	Mounting Configuration			Fixture Mounting Drill Pattern**	Finish	Options
S Straight	R Round	S Steel	5 = 5"	11 11 gauge (0.125")	12 = 12' 15 = 15' 17 = 17' 20 = 20' 22 = 22' 25 = 25' 27 = 27' 30 = 30'	SW Standard Weld	BS Standard Formed Composite	Drilled Poles 1D Drilled for Direct Mount (Single) 2D90 Drilled for Direct Mount (2@90deg) 2D18 Drilled for Direct Mount (2@180deg) 3D90 Drilled for Direct Mount (3@90deg) 4D90 Drilled for Direct Mount (4@90deg) Open Top Poles OT* Open top to accept internal mount tenons or brackets			Use w/Drilled Poles C Standard Cree Lighting Drill Pattern - For use with Cree Lighting and C-LITE® area/flood luminaires except THE EDGE® High Output or OSQX E THE EDGE® High Output Drill Pattern - Drill Pattern for use only with THE EDGE High Output luminaires with EHO-UNV mount Q OSQX Drill Pattern - Drill Pattern for use only with OSQX luminaires Use w/Open Top Poles N None - Required with OT mounting configuration	BK Black BZ Bronze SV Silver WH White	GFI GFI Receptacle - Available only with 5" poles - Located 28" above the base of the pole on same side as hand hole. Consult factory for placement in other locations.

* Order tenon separately. Refer to [Bracket and Tenons spec sheet](#) for additional information.

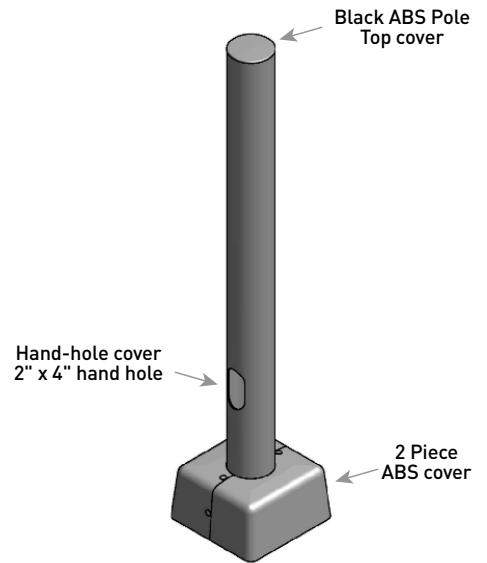
** Refer to page 3 for fixture mounting patterns.

CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov



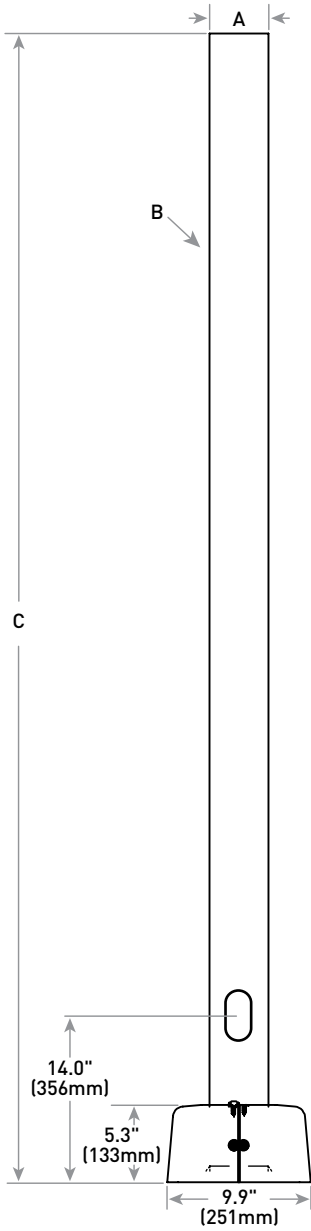
US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234



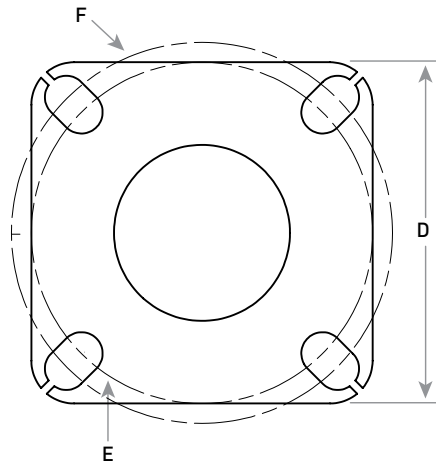
CREE ⇄ **LIGHTING**

Pole Drawing



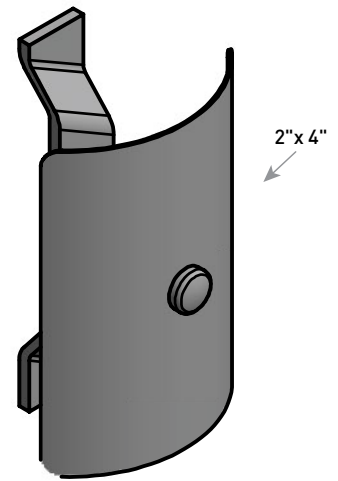
Refer to page 4 for dimensions A-F. Dimensions are based on pole selection.

Base Plate Detail

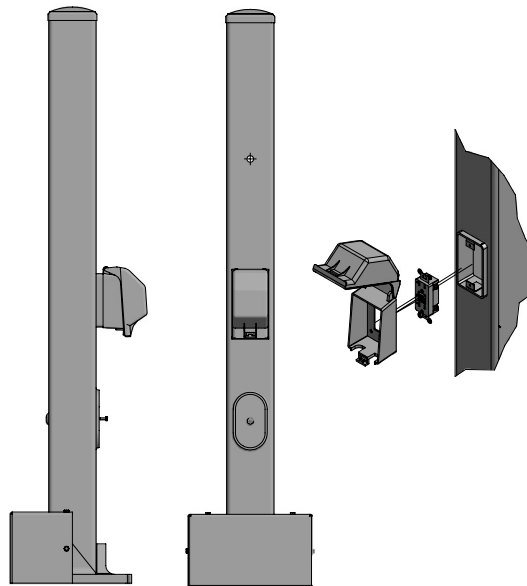


Refer to page 4 for dimensions A-F. Dimensions are based on pole selection.

Hand Hole Cover Drawing



Optional GFI (shown on square pole)

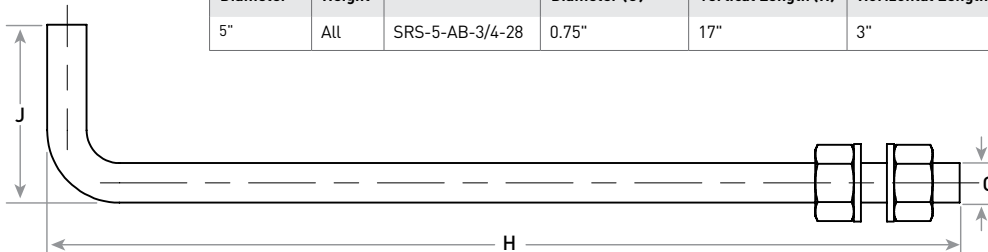


CONSTRUCTION & MATERIALS

- Heavy-duty steel construction
- Lockable security cover
- Includes adapter plates and foam gasket
- 20A, 120V, 60Hz GFCI, and cover also included
- 3-1/4" internal depth
- Standard GFI is located 28" above the pole base on the same side as the hand hole. Consult factory for placement in other locations
- Weatherproof while in use
- Meets NEC Extra Duty requirements
- Receptacle and cover ship separately in hardware bag

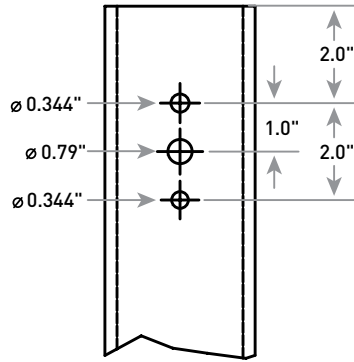
Anchor Bolt Detail

Pole Diameter	Pole Height	Part Number	Anchor Bolt Diameter (G)	Anchor Bolt Vertical Length (H)	Anchor Bolt Horizontal Length (J)	Bolt Circle/Range
5"	All	SRS-5-AB-3/4-28	0.75"	17"	3"	8"/8-9"



Fixture Mounting Drill Patterns

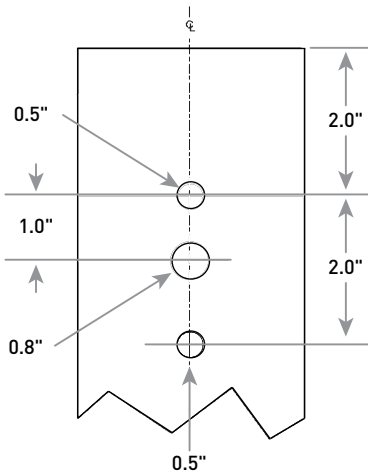
C - Standard Cree Lighting Fixture Mounting Drill Pattern



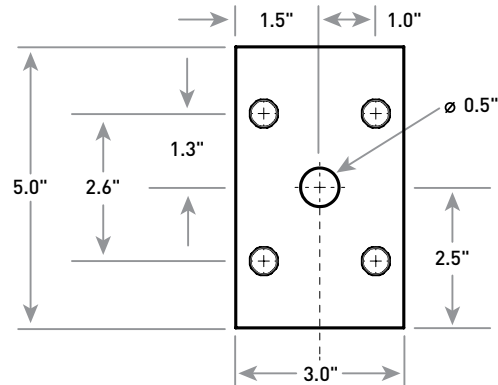
N - Open Top Mounting Configuration



Q - OSQX Mounting Drill Pattern



E - THE EDGE® High Output Mounting Drill Pattern



Tenon EPA

Part Number	EPA
PB-1R5.00	0.92
PB-2R5.00	0.92
PB-3R5.00	1.62
PB-4R5.00	2.32
PB-4R5.0(90)	1.21
XA-TMDA8	0.19

Tenons and Brackets[‡] (must specify color)

Round External Mount Vertical Tenons (Steel)

- Mounts to 5.0" (127mm) O.D. round aluminum or steel poles or tenons
- Not for use with THE EDGE® Area Round Post Top mounts

PB-1R5.00 - Single PB-2R5.00 - Twin
 PB-3R5.00 - Triple PB-4R5.00 - Quad
 PB-4R5.0(90) - Quad @ 90°

Direct Arm Pole Adaptor Bracket (Aluminum)

- Mounts to 3-6" (76-152mm) round or square aluminum or steel poles
 - For use with horizontal tenon mounts that require extended tenon length
 - Not for use with THE EDGE® High Output or OSQX Area/Flood luminaires
- XA-TMDA8

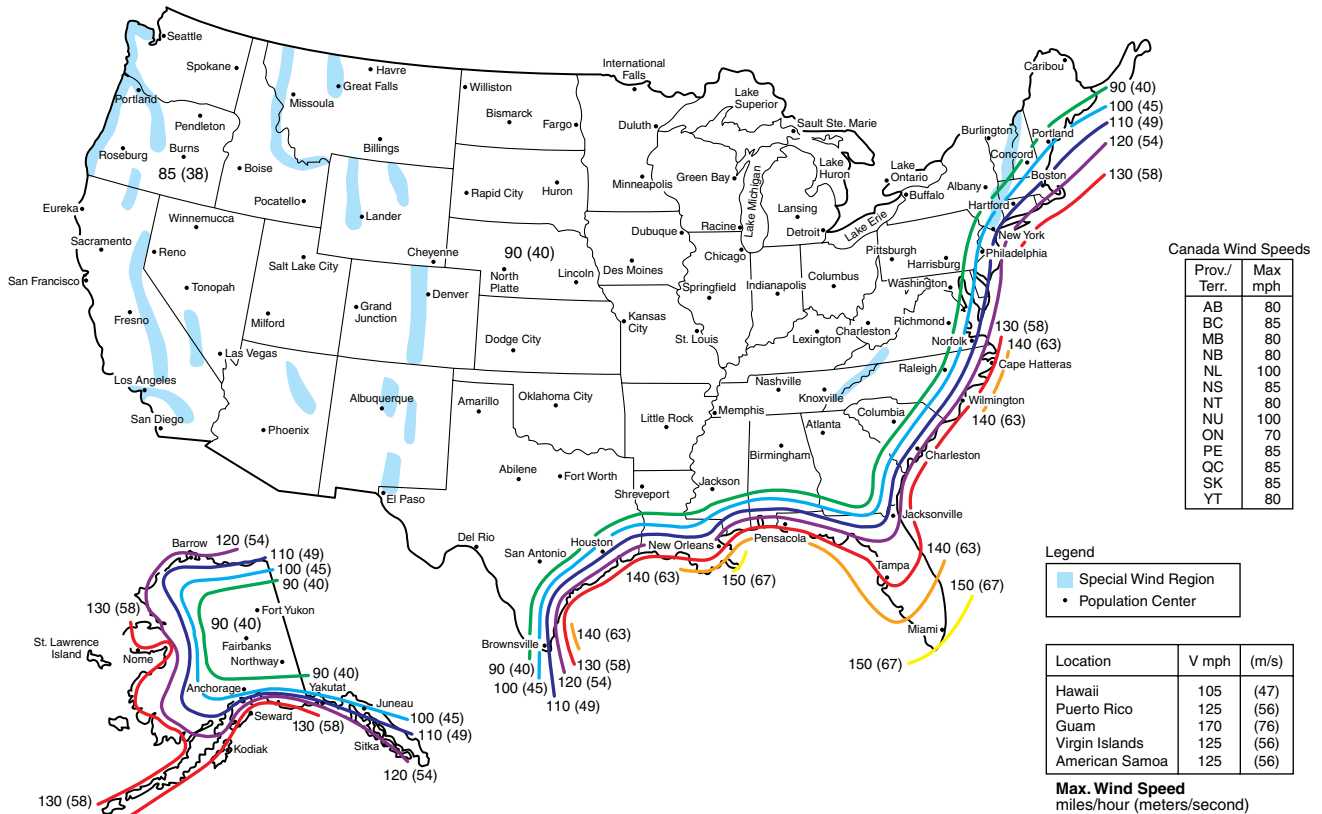
[‡] Refer to the [Bracket and Tenons spec sheet](#) for more details on tenons. Refer to product specification sheets for compatible tenons.

Dimensions, EPA & Weight

Product	Diameter (A) x Wall (B) x Height (C)	Base Plate (D) x Thickness	Bolt Circle/ Range Min (E) -Max (F)	AASHTO LTS-6					Maximum Luminaire Weight	Approx. Shipping Weight
				80	90	100	120	140		
SRS-5-11-12-SW-BS	5" x 11 ga. x 12'	8" x 0.75" Thick	8.5"/8-9"	30.53	23.54	18.77	12.79	9.23	150 lbs.	120 lbs.
SRS-5-11-15-SW-BS	5" x 11 ga. x 15'	8" x 0.75" Thick	8.5"/8-9"	23.11	17.53	13.83	9.3	6.63	150 lbs.	144 lbs.
SRS-5-11-17-SW-BS	5" x 11 ga. x 17'	8" x 0.75" Thick	8.5"/8-9"	17.66	13.09	11.33	7.5	5.27	150 lbs.	161 lbs.
SRS-5-11-20-SW-BS	5" x 11 ga. x 20'	8" x 0.75" Thick	8.5"/8-9"	14.61	10.61	7.99	5.03	3.41	150 lbs.	186 lbs.
SRS-5-11-22-SW-BS	5" x 11 ga. x 22'	8" x 0.75" Thick	8.5"/8-9"	12.09	8.54	6.21	3.7	2.4	150 lbs.	202 lbs.
SRS-5-11-25-SW-BS	5" x 11 ga. x 25'	8" x 0.75" Thick	8.5"/8-9"	8.98	5.96	3.98	2.02	1.12	150 lbs.	225 lbs.
SRS-5-11-27-SW-BS	5" x 11 ga. x 27'	8" x 0.75" Thick	8.5"/8-9"	7.23	4.49	2.7	1.05	0.37	150 lbs.	244 lbs.
SRS-5-11-30-SW-BS	5" x 11 ga. x 30'	8" x 0.75" Thick	8.5"/8-9"	4.96	2.57	1.02	N/A	N/A	150 lbs.	263 lbs.

NOTE: Hanging signs, banners and flags on poles changes the EPA rating and increases vibration. The EPA ratings data provided does not allow for this added stress which could result in pole or luminaire failure.

This map indicates approximate maximum wind zones throughout the U.S. Base wind velocities are established using a 50-year recurring mean. The EPA rating of the pole must be equal to or greater than that of the luminaire(s), taking into consideration the wind conditions at the job site.



Dimensions, EPA & Weight

Product	Diameter (A) x Wall (B) x Height (C)	Base Plate (D) x Thickness	Bolt Circle/ Range Min (E) -Max (F)	FBC							Maximum Luminaire Weight	Approx. Shipping Weight
				120	130	140	150	160	170	180		
SRS-5-11-12-SW-BS	5" x 11 ga. x 12'	8" x 0.75" Thick	8.5"/8-9"	23.9	19.9	18	15.4	13.3	11.6	10.2	150 lbs.	120 lbs.
SRS-5-11-15-SW-BS	5" x 11 ga. x 15'	8" x 0.75" Thick	8.5"/8-9"	17.7	14.5	13.6	11.5	9.9	8.5	7.3	150 lbs.	144 lbs.
SRS-5-11-17-SW-BS	5" x 11 ga. x 17'	8" x 0.75" Thick	8.5"/8-9"	14.3	11.5	11.1	9.4	7.9	6.7	5.7	150 lbs.	161 lbs.
SRS-5-11-20-SW-BS	5" x 11 ga. x 20'	8" x 0.75" Thick	8.5"/8-9"	10.4	9	8.3	6.9	5.7	4.7	3.9	150 lbs.	186 lbs.
SRS-5-11-22-SW-BS	5" x 11 ga. x 22'	8" x 0.75" Thick	8.5"/8-9"	8.3	7.5	6.9	5.6	4.5	3.7	2.9	150 lbs.	202 lbs.
SRS-5-11-25-SW-BS	5" x 11 ga. x 25'	8" x 0.75" Thick	8.5"/8-9"	5.7	5.6	5.1	4	3.1	2.3	1.7	150 lbs.	225 lbs.
SRS-5-11-27-SW-BS	5" x 11 ga. x 27'	8" x 0.75" Thick	8.5"/8-9"	4.5	4.2	4.1	3.1	2.2	1.5	1	150 lbs.	244 lbs.
SRS-5-11-30-SW-BS	5" x 11 ga. x 30'	8" x 0.75" Thick	8.5"/8-9"	3.1	2.7	2.3	1.9	1.1	0.5	N/A	150 lbs.	263 lbs.

NOTE: Hanging signs, banners and flags on poles changes the EPA rating and increases vibration. The EPA ratings data provided does not allow for this added stress which could result in pole or luminaire failure.

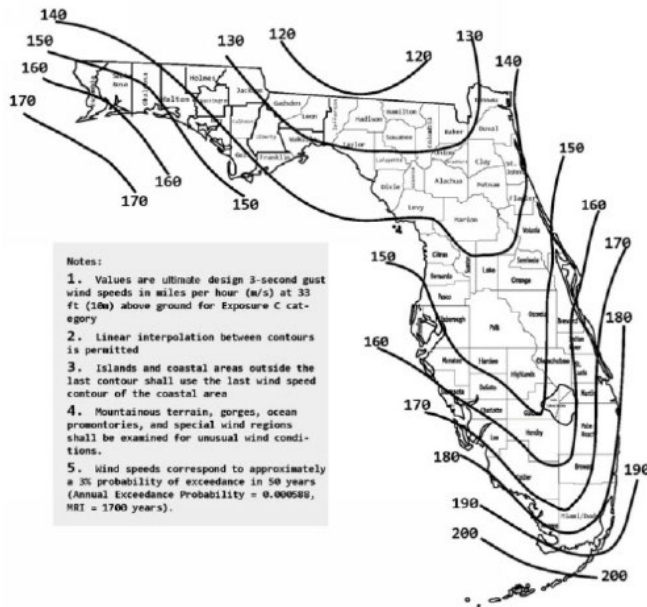


FIGURE 1609.3(2)
ULTIMATE DESIGN WIND SPEEDS, V_{ULT} , FOR RISK CATEGORY III BUILDINGS AND OTHER STRUCTURES

Traveyo® Series

Traveyo® LED Street/Area Luminaire - Medium

Rev. Date: V15 02/20/2023

Product Description

The Cree Lighting Traveyo Series luminaire provides solid performance, future-ready engineering and a better than expected lighting experience. The TRVMD LED Street/Area luminaire offers a full range of optics and CCTs to meet the needs of the application while maintaining the familiarity of a traditional cobrahead design. Designed for easy installation, the Traveyo luminaire features tool-less entry, tool-less rotatable 7-pin photocell receptacle, T-level and +/- 5° fixture leveling.

Applications: Collector roadways, parking lots, and general area spaces

Performance Summary

Initial Delivered Lumens: Up to 11,050

Efficacy: Up to 150 LPW

CRI: Minimum 70 CRI

CCT: 2700K, 3000K, 4000K, 5700K, Amber

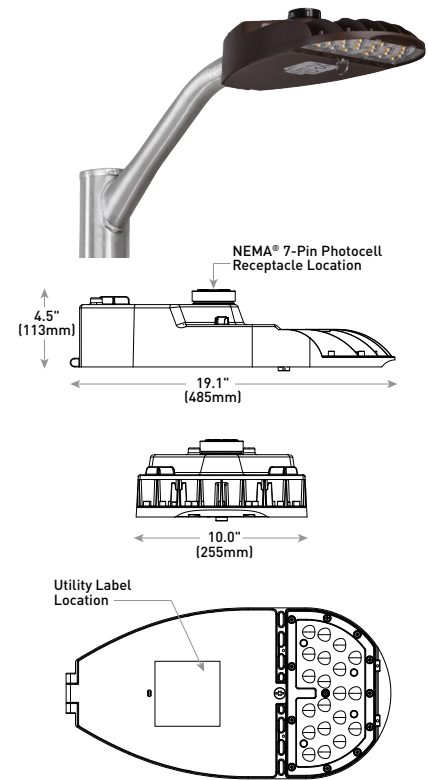
Limited Warranty: 5 years standard on luminaire and finish, 10 years optional on luminaire and finish, up to 5 years for Synapse® accessories, 1 year on accessories

Assembled in the USA by Cree Lighting from US and imported parts (except MX, ZC, and ZZ options)

* See <http://creelighting.com/warranty> for warranty terms

Accessories

Field-Installed	
Bird Spikes TRV-BRDGRDM	Cul-De-Sac Shield TRV-CLSM - Provides backlight and sidelight control - Black painted aluminum construction - Lumen multiplier (2ME/3ME/4ME): 0.75
Backlight Control Shield TRV-BLSM - Provides 1 mounting height cutoff - Black painted aluminum construction - Refer to initial delivered lumen tables for lumen output	Front Light Shield TRV-FLSM - Provides front light control - Black painted aluminum construction - Lumen multiplier (2ME/3ME): 0.91 - Lumen multiplier (4ME): 0.84
Shorting Cap XA-XSLSHRT	



Weight
8.6 lbs. (3.9kg)

Ordering Information

Example: TRVMD-A-HT-2ME-8L-27K7-UL-BK-N

TRVMD	A	HT						N	
Product	Version	Mounting*	Optic	Lumen Package***	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
TRVMD Medium	A	HT Horizontal Tenon	Asymmetric 2ME** Type II Medium 3ME** Type III Medium 4ME** Type IV Medium Symmetric 5ME Type V Medium	8L 8,000 Lumens 10L 10,000 Lumens 3L 3,000 Lumens - Available only with TRL	27K7 2700K, 70 CRI 30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 57K7 5700K, 70 CRI TRL Turtle Friendly Amber LEDs, 625nm - Available only with 3L - Additional shielding (by others) may be required for Florida Fish and Wildlife Conservation Commission compliance	UL Universal 120-277V UH Universal 347-480V - Not available with TRL CCT	BK Black BZ Bronze GY Grey	N Utility Label and NEMA® 7-Pin Photocell Receptacle - External wattage label per ANSI C136.15 - 7-pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others	20KV 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection MX Shipment to Mexico - Refer to Traveyo Logistics Options table on page 2 for details and availability Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output (details pages 8-9) - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Not available with TRL CCT - Offers full range lumen adjustability - Includes wattage label for setting selected - Refer to pages 8-9 for power and lumen values - Luminaire may also be dimmed through 7-Pin receptacle (if applicable) with use of dimming control by others W10 10-Year Limited Luminaire/Finish Warranty ZC Shipment to Canada - Refer to Traveyo Logistics Options table on page 2 for details and availability ZZ International Shipment - Refer to Traveyo Logistics Options table on page 2 for details and availability

* Reference EPA and pole configuration suitability data on page 6-7

** Available with Backlight Shield when ordered with field-installed accessory (see table above)

*** Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



CREE ⇄ **LIGHTING**

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CONSTRUCTION & MATERIALS

- Die cast LM6 (A413) aluminum housing and door
- Stainless steel (304) hardware
- Tool-less entry
- Mounts on 1.25" (32mm) IP, 1.66" (42mm) O.D. or 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon (minimum 5.9" [150mm] in length) and is adjustable +/- 5° to allow for fixture leveling (includes two axis T-level to aid in leveling)
- Luminaire secures with two 304 stainless steel mounting bolts
- N option includes Utility Label per ANSI C136.15 and 7-pin NEMA® Photocell Receptacle per ANSI C136.41
- **Weight:** 8.6 lbs. (3.9kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush
- Straight-in wiring to 6-14 AWG terminal block
- Designed with 0-10V dimming capabilities. Controls by others
- **10V Source Current:** 0.15mA
- **Operating Temperature Range:** -40°C - +50°C (-40°F - +122°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- NOM Certified when ordered with MX option or ZZ option shipping to Mexico.
- Optic and LED area tested to IP66 per IEC 60598-1
- Certified to ANSI C136.31-2010, 3G bridge and overpass vibration standards
- Meets CALTrans 611 Vibration testing
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire was subjected to the Mixed Flowing Gas for Electrical Contacts Test according to following specifications: ASTM B 845-97, ANSI NCSL Z540-1 3, ISO 17025:2005. No lumen maintenance or color maintenance degradation was noted during testing
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with TRL, 27K7 or 30K7 CCTs. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information
- IK09 rated housing and IK10 rated lens per IEC 62262:2002
- Assembled in the USA by Cree Lighting from US and imported parts (except MX, ZC, and ZZ options)
- Meets Buy American requirements within ARRA (except MX, ZC, and ZZ options)
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL FOR NON-STREET LIGHTING APPLICATIONS ONLY

The Traveyo Series is compatible with the Synapse® SimplySNAP platform. A highly intuitive connected lighting solution for Site and Area applications only. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. Using a Twist-Lock Lighting Controller and Site Controller, SimplySnap provides: energy productivity, code compliance and a better light experience for non-street lighting installations. SimplySNAP is optimized to create and manage networks for campus wide Area and Site applications which differs from networking requirements for street lighting applications.

Synapse Wireless Control Accessories (for Non-Street Lighting Applications only)	
<p>Twist-Lock Lighting Controller TL7-B2</p> <ul style="list-style-type: none"> - Suitable for 120-277V (UL) voltage only - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-B2 spec sheet for details <p>Twist-Lock Lighting Controller TL7-HVG</p> <ul style="list-style-type: none"> - Suitable for 120-480V (UL and UH) voltage - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-HVG spec sheet for details <p>SimplySNAP Central Base Station CBS5W-450-002</p> <ul style="list-style-type: none"> - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to CBS5W-450-002 spec sheet for details 	<p>Synapse Wireless Sensor WSN-DPM</p> <ul style="list-style-type: none"> - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details <p>SimplySNAP On-Site Controller SS450-002</p> <ul style="list-style-type: none"> - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details <p>Building Management System (BMS) Gateway BMS-GW-002</p> <ul style="list-style-type: none"> - Required for BACnet integration - Refer to BMS-GW-002 spec sheet for details <p>Outdoor Antennas (Optional, for increased range, 8dB gain)</p> <p>KIT-ANT420SM</p> <ul style="list-style-type: none"> - Kit includes antenna, 20' cable and bracket <p>KIT-ANT360</p> <ul style="list-style-type: none"> - Kit includes antenna, 30' cable and bracket <p>KIT-ANT600</p> <ul style="list-style-type: none"> - Kit includes antenna, 50' cable and bracket - Refer to Outdoor antenna spec sheet for details

Electrical Data*									
Lumen Package	CCT/CRI	System Watts 120-480V**	Utility Label Wattage	Total Current (A)					
				120V	208V	240V	277V	347V**	480V**
3L	TRL	44	40	0.37	0.22	0.19	0.17	N/A	N/A
8L	27K7, 30K7, 40K7, 57K7	57	60	0.48	0.28	0.24	0.21	0.16	0.12
10L	27K7, 30K7, 40K7, 57K7	77	80	0.65	0.37	0.32	0.29	0.22	0.16

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%. ** 347-480V not available with TRL.

Traveyo® Series Ambient Adjusted Lumen Maintenance ¹						
Ambient	CCT/CRI	Initial LMF	36K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² LMF	100K hr Reported ² LMF
5°C (41°F)	TRL	1.14	1.03	1.00	0.96	0.91
	27K7, 30K7, 40K7, 57K7	1.01	0.94	0.92	0.88	0.84
10°C (50°F)	TRL	1.10	1.00	0.97	0.92	0.88
	27K7, 30K7, 40K7, 57K7	1.01	0.94	0.92	0.88	0.84
15°C (59°F)	TRL	1.07	0.97	0.94	0.90	0.85
	27K7, 30K7, 40K7, 57K7	1.01	0.94	0.92	0.88	0.84
20°C (68°F)	TRL	1.03	0.93	0.91	0.87	0.82
	27K7, 30K7, 40K7, 57K7	1.00	0.93	0.91	0.87	0.84
25°C (77°F)	TRL	1.00	0.91	0.88	0.84	0.80
	27K7, 30K7, 40K7, 57K7	1.00	0.93	0.91	0.87	0.84

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

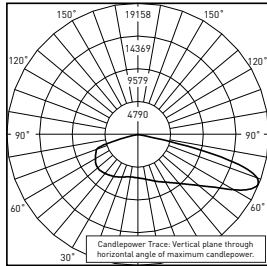
Traveyo® Logistics Options			
These options cannot be combined. Must order standard (no option selected), or only one of MX, ZC or ZZ.			
Standard	MX	ZC	ZZ
For shipments to USA and US territories	For shipments to Mexico	For shipments to Canada	For shipments outside of USA, U.S. territories, and Canada
cULus	cULus, NOM	cULus	cULus, NOM

TRVMD LED Street/Area Luminaire - Medium

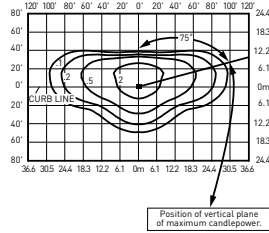
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/street-and-roadway/traveyo-series-street>

2ME



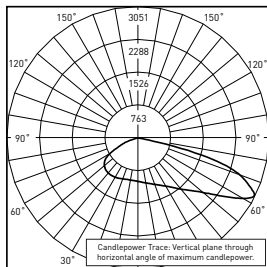
CESTL Test Report #: PL13776-001A
TRVXL-A-2ME-30L-40K7-UL**-N**
Initial Delivered Lumens: 31,775



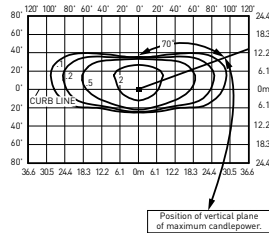
TRVMD-A-2ME-10L-40K7-UL**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,000
 Initial FC at grade

Type II Medium Distribution										
Lumen Package	2700K		3000K		4000K		5700K		TRL	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens	BUG Ratings** Per TM-15-11
3L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,430	B1 U0 G1
8L	7,950	B2 U0 G2	8,275	B2 U0 G2	8,475	B2 U0 G2	8,525	B2 U0 G2	N/A	N/A
10L	10,300	B2 U0 G2	10,725	B2 U0 G2	11,000	B2 U0 G2	11,050	B2 U0 G2	N/A	N/A

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



CESTL Test Report #: PL13936-001A
TRVSM-A-2ME-5L-40K7-UL**-N**
w/TRV-BLSM
Initial Delivered Lumens: 4,753



TRVMD-A-2ME-10L-40K7-UL**-N**
w/TRV-BLSM
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,900
 Initial FC at grade

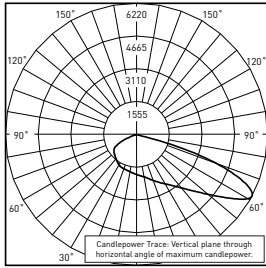
Type II Medium Distribution w/ BLS Distribution										
Lumen Package	2700K		3000K		4000K		5700K		TRL	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens	BUG Ratings** Per TM-15-11
3L	N/A	N/A		N/A	N/A	N/A	N/A	N/A	3,090	B1 U0 G1
8L	7,150	B2 U0 G1	7,450	B2 U0 G1	7,625	B2 U0 G1	7,675	B2 U0 G1	N/A	N/A
10L	9,275	B2 U0 G2	9,650	B2 U0 G2	9,900	B2 U0 G2	9,950	B2 U0 G2	N/A	N/A

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

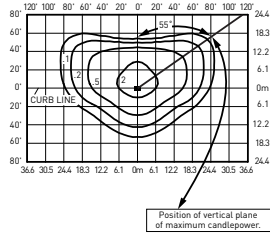
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/street-and-roadway/traveyo-series-street>

3ME



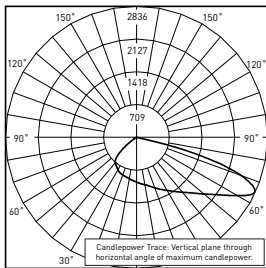
CESTL Test Report #: PL13957-001A
TRVMD-A--3ME-10L-40K7-UL-**-N**
Initial Delivered Lumens: 10,739



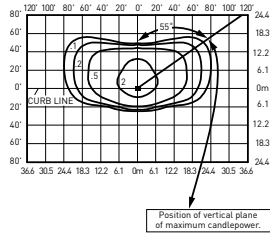
TRVMD-A--3ME-10L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,000
 Initial FC at grade

Type III Medium Distribution										
Lumen Package	2700K		3000K		4000K		5700K		TRL	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens	BUG Ratings** Per TM-15-11
3L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,430	B1 U0 G1
8L	7,950	B2 U0 G1	8,275	B2 U0 G1	8,475	B2 U0 G1	8,525	B2 U0 G1	N/A	N/A
10L	10,300	B2 U0 G2	10,725	B2 U0 G2	11,000	B2 U0 G2	11,050	B2 U0 G2	N/A	N/A

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



CESTL Test Report #: PL13937-001A
TRVSM-A--3ME-5L-40K7-UL-**-N**
w/TRV-BLSS
Initial Delivered Lumens: 4,834



TRVSM-A--3ME-5L-40K7-UL-**-N**
w/TRV-BLSS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,900
 Initial FC at grade

Type III Medium Distribution w/ BLS Distribution										
Lumen Package	2700K		3000K		4000K		5700K		TRL	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens	BUG Ratings** Per TM-15-11
3L	N/A	N/A		N/A	N/A	N/A	N/A	N/A	3,090	B1 U0 G1
8L	7,150	B2 U0 G1	7,450	B2 U0 G1	7,625	B2 U0 G1	7,675	B2 U0 G1	N/A	N/A
10L	9,275	B2 U0 G2	9,650	B2 U0 G2	9,900	B2 U0 G2	9,950	B2 U0 G2	N/A	N/A

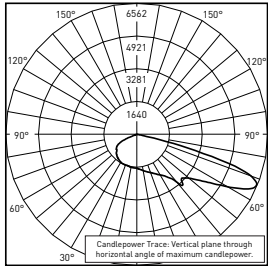
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

TRVMD LED Street/Area Luminaire - Medium

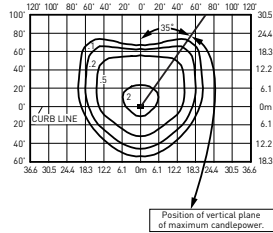
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/street-and-roadway/traveyo-series-street>

4ME



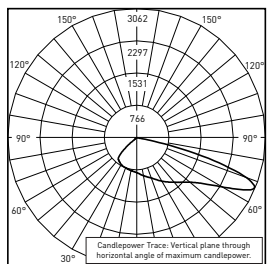
CESTL Test Report #: PL13627-001A
TRVMD-A-4ME-10L-40K7-UL
Initial Delivered Lumens: 10,791



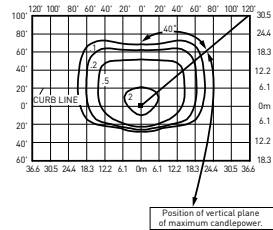
TRVMD-A-4ME-10L-40K7-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,000
 Initial FC at grade

Type IV Medium Distribution										
Lumen Package	2700K		3000K		4000K		5700K		TRL	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens	BUG Ratings** Per TM-15-11
3L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,430	B1 U0 G1
8L	7,950	B2 U0 G2	8,275	B2 U0 G2	8,475	B2 U0 G2	8,525	B2 U0 G2	N/A	N/A
10L	10,300	B2 U0 G2	10,725	B2 U0 G2	11,000	B2 U0 G2	11,050	B2 U0 G2	N/A	N/A

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



CESTL Test Report #: PL14011-001A
TRVMD-A-4ME-10L-40K7-UL w/TRV-BLSM
Initial Delivered Lumens: 4,696



TRVMD-A-4ME-10L-40K7-UL w/TRV-BLSM
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,900
 Initial FC at grade

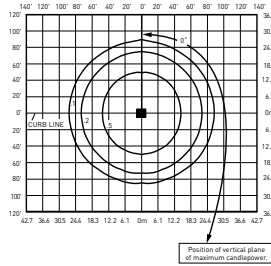
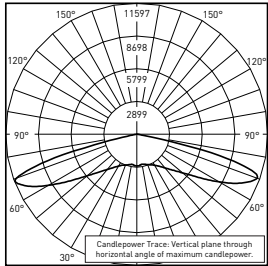
Type IV Medium Distribution w/ BLS Distribution										
Lumen Package	2700K		3000K		4000K		5700K		TRL	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens	BUG Ratings** Per TM-15-11
3L	N/A	N/A		N/A	N/A	N/A	N/A	N/A	3,090	B1 U0 G1
8L	7,150	B2 U0 G2	7,450	B2 U0 G2	7,625	B2 U0 G2	7,675	B2 U0 G2	N/A	N/A
10L	9,275	B2 U0 G2	9,650	B2 U0 G2	9,900	B2 U0 G2	9,950	B2 U0 G2	N/A	N/A

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/street-and-roadway/traveyo-series-street>

5ME



CESTL Test Report #: PL13780-001A
TRVXL-A--5ME-30L-40K7-UL-**-N**
Initial Delivered Lumens: 31,860
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,000
Initial FC at grade

Type V Medium Distribution										
Lumen Package	2700K		3000K		4000K		5700K		TRL	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens	BUG Ratings** Per TM-15-11
3L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,430	B3 U0 G1
8L	7,950	B3 U0 G2	8,275	B3 U0 G2	8,475	B3 U0 G2	8,525	B3 U0 G2	N/A	N/A
10L	10,300	B4 U0 G2	10,725	B4 U0 G2	11,000	B4 U0 G2	11,050	B4 U0 G2	N/A	N/A

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

Luminaire EPA

Horizontal Tenon Mount – Weight: 8.6 lbs. (3.9kg)				
Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
Tenon Configuration: If used with Cree Lighting tenons, please add tenon EPA with luminaire EPA				
PD-1H4; PT-1H	PD-2H4(90); PT-2H(90)	PD-2H4(180); PT-2H(180)	PD-3H4(90); PT-3H(90)	PD-4H4(90); PT-4H(90)
0.44	0.73	0.89	1.18	1.46

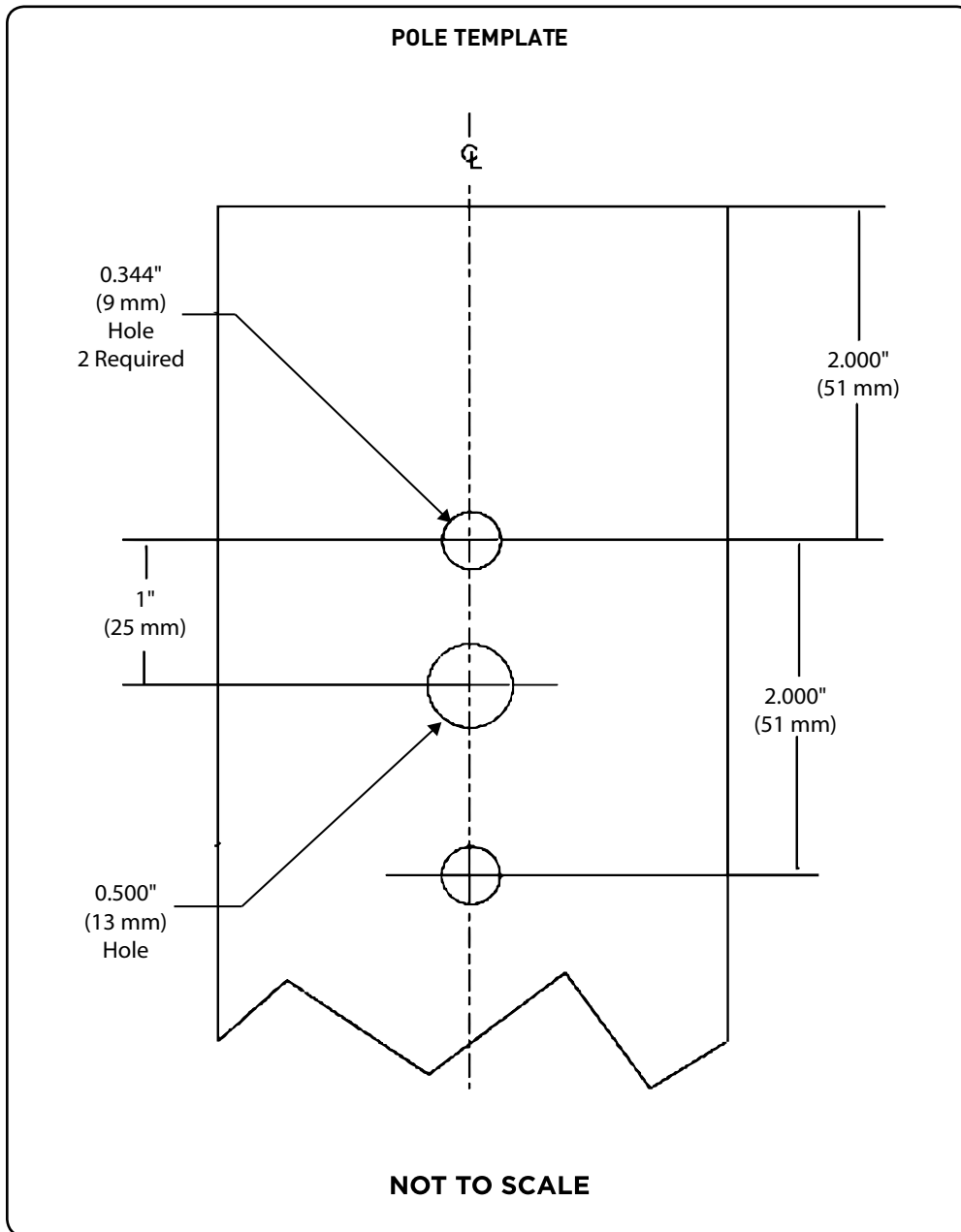
Tenon EPA

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
WM-2L	0.13
XA-TMDA8	0.19

Tenons and Brackets ² (must specify color)	
Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-1H4 – Single PD-3H4(90) – 90° Triple PD-2H4(90) – 90° Twin PD-4H4(90) – 90° Quad PD-2H4(180) – 180° Twin	Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375"-3" (60-76mm) O.D. round aluminum or steel poles or tenons - Mounts to 3" (76mm), 5" (127mm), or 6" (152mm) square pole with PB-1A* tenon PT-1H – Single PT-3H(90) – 90° Triple PT-2H(90) – 90° Twin PT-4H(90) – 90° Quad PT-2H(180) – 180° Twin
Wall Mount Brackets - Mounts to wall or roof WM-2L – Extended Horizontal	Direct Arm Pole Adaptor Bracket - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles XA-TMDA8

² Refer to the [Bracket and Tenons spec sheet](#) for more details
^{*} Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"] for single, double or triple luminaire orientation or 4 [4"], 5 [5"] or 6 [6"] for quad luminaire orientation

Fixture Mounting Drill Pattern for XA-TMDA8



Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the Traveyo Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include a wattage label that indicates the wattage of the luminaire at the selected lumen output (Rounded to nearest 10 watts per ANSI C136.15-2015.). Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Q Option Power & Lumen Data - 8L

Q Option Setting	CCT/CRI	System Watts [†] 120-480V	Label Wattage	Lumen Values [†]	
				2ME/3ME/4ME/5ME	2ME w/BLS, 3ME w/BLS, 4ME w/BLS
Q9	27K7	57	60	7,950	7,150
	30K7			8,275	7,450
	40K7			8,475	7,625
	57K7			8,525	7,675
Q8	27K7	53	50	7,275	6,550
	30K7			7,575	6,825
	40K7			7,775	6,975
	57K7			7,800	7,025
Q7	27K7	50	50	6,800	6,125
	30K7			7,075	6,375
	40K7			7,250	6,525
	57K7			7,300	6,550
Q6	27K7	46	50	6,350	5,725
	30K7			6,625	5,950
	40K7			6,775	6,100
	57K7			6,825	6,150
Q5	27K7	40	40	5,550	4,990
	30K7			5,775	5,200
	40K7			5,925	5,325
	57K7			5,950	5,350
Q4	27K7	38	40	5,225	4,690
	30K7			5,425	4,890
	40K7			5,550	5,000
	57K7			5,600	5,025
Q3	27K7	33	30	4,580	4,120
	30K7			4,770	4,290
	40K7			4,880	4,390
	57K7			4,910	4,420
Q2	27K7	30	30	4,130	3,720
	30K7			4,300	3,870
	40K7			4,410	3,970
	57K7			4,430	3,990
Q1	27K7	27	30	3,690	3,320
	30K7			3,840	3,460
	40K7			3,930	3,540
	57K7			3,960	3,560

[†] Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V or 347-480V +/-10%. 347-480V not available with TRL.

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the Traveyo Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include a wattage label that indicates the wattage of the luminaire at the selected lumen output (Rounded to nearest 10 watts per ANSI C136.15-2015.). Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Q Option Power & Lumen Data - 10L

Q Option Setting	CCT/CRI	System Watts* 120-480V	Label Wattage	Lumen Values*	
				2ME/3ME/4ME/5ME	2ME w/BLS, 3ME w/BLS, 4ME w/BLS
Q9	27K7	77	80	10,300	9,275
	30K7			10,725	9,650
	40K7			11,000	9,900
	57K7			11,050	9,950
Q8	27K7	75	80	10,050	9,050
	30K7			10,475	9,425
	40K7			10,725	9,650
	57K7			10,775	9,700
Q7	27K7	69	70	9,300	8,375
	30K7			9,700	8,725
	40K7			9,950	8,950
	57K7			10,000	9,000
Q6	27K7	61	60	8,000	7,200
	30K7			8,325	7,500
	40K7			8,550	7,700
	57K7			8,575	7,725
Q5	27K7	53	50	7,100	6,400
	30K7			7,400	6,650
	40K7			7,575	6,825
	57K7			7,625	6,850
Q4	27K7	46	50	6,200	5,575
	30K7			6,450	5,800
	40K7			6,600	5,950
	57K7			6,650	5,975
Q3	27K7	43	40	5,725	5,175
	30K7			5,975	5,375
	40K7			6,125	5,525
	57K7			6,150	5,550
Q2	27K7	37	40	5,075	4,570
	30K7			5,275	4,760
	40K7			5,425	4,880
	57K7			5,450	4,910
Q1	27K7	33	30	4,470	4,030
	30K7			4,650	4,190
	40K7			4,770	4,300
	57K7			4,800	4,320

* Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V or 347-480V +/-10%. 347-480V not available with TRL.

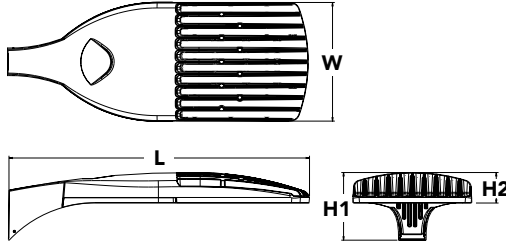


D-Series Size 1 LED Area Luminaire



Specifications

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P4 ¹ P7 ¹ P2 P5 ¹ P8 P3 P6 ¹ P9 ¹ Rotated optics P10 ² P12 ² P11 ² P13 ^{1,2}	30K 3000K 40K 4000K 50K 5000K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short ³ T5S Type V short ³ T5M Type V medium ³ T5W Type V wide ³ BLC Backlight control ⁴ LCCO Left corner cutoff ⁴ RCCO Right corner cutoff ⁴	MVOLT ⁵ XVOLT (277V-480V) ^{6,7,8} 120 ⁹ 208 ⁹ 240 ⁹ 277 ⁹ 347 ⁹ 480 ⁹	Shipped included SPA Square pole mounting RPA Round pole mounting ¹⁰ WBA Wall bracket ³ SPUMBA Square pole universal mounting adaptor ¹¹ RPUMBA Round pole universal mounting adaptor ⁹ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹²

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ¹³ PIRHN Network, high/low motion/ambient sensor ¹⁴ PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁵ PER5 Five-pin receptacle only (controls ordered separate) ^{15,16} PER7 Seven-pin receptacle only (controls ordered separate) ^{15,16} DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷ DS Dual switching ^{18,19,20}	Shipped installed HS House-side shield ²³ SF Single fuse (120, 277, 347V) ⁹ DF Double fuse (208, 240, 480V) ⁹ L90 Left rotated optics ² R90 Right rotated optics ² HA 50°C ambient operations ¹ BAA Buy America(n) Act Compliant Shipped separately BS Bird spikes ²⁴ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Ordering Information

Accessories

Ordered and shipped separately.

DL1127F 1.5 JU	Photocell -SSL twist-lock (120-277V) ²⁵
DL1347F 1.5 CUL JU	Photocell -SSL twist-lock (347V) ²⁵
DL1480F 1.5 CUL JU	Photocell -SSL twist-lock (480V) ²⁵
DSHORT SBK U	Shorting cap ²⁵
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 ²³
DSX1HS 40C U	House-side shield for P6 and P7 ²³
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 ²³
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²⁴
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ²⁴
DSX1EGS (FINISH) U	External glare shield

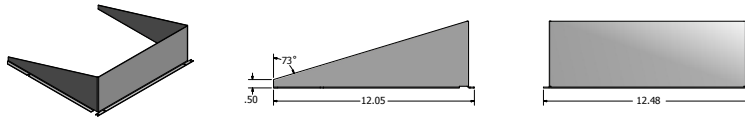
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- HA not available with P4, P5, P6, P7, P9 and P13.
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- XVOLT only suitable for use with P3, P5, P6, P7, P9 and P13.
- XVOLT works with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral.
- Reference Controls Option Default settings table on page 4.
- Reference Motion Sensor table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Control Option Table on page 4.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

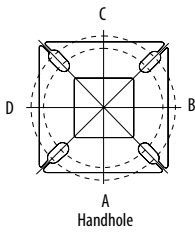
Options

EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION

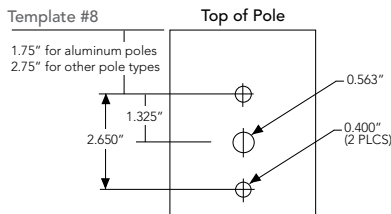


Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

Template #8



DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 LED	1.013	2.025	1.945	3.038	2.850	3.749

	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

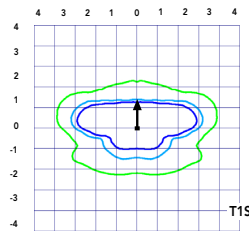
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

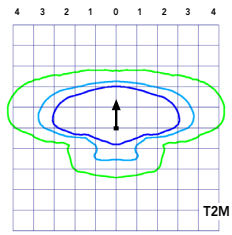
Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

LEGEND

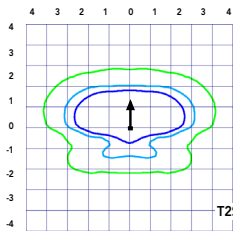
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- 0.5 fc
- 1.0 fc



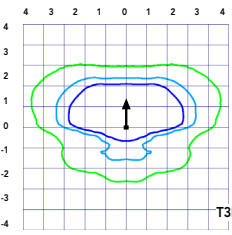
T1S
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



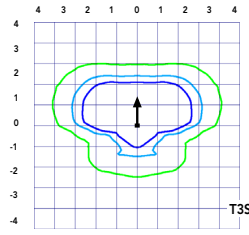
T2M
Test No. LTL23164B tested in accordance with IESNA LM-79-08.



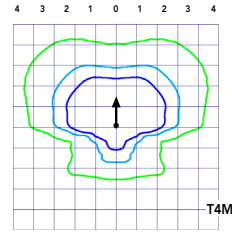
T2S
Test No. LTL23222 tested in accordance with IESNA LM-79-08.



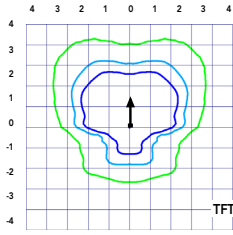
T3M
Test No. LTL23271 tested in accordance with IESNA LM-79-08.



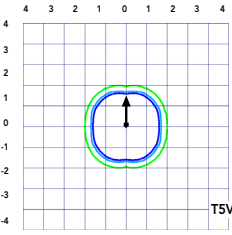
T3S
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



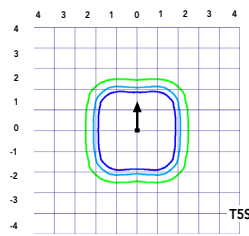
T4M
Test No. LTL23164B tested in accordance with IESNA LM-79-08.



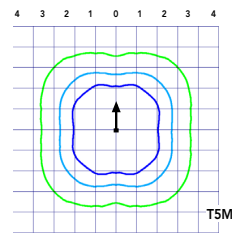
TFM
Test No. LTL23222 tested in accordance with IESNA LM-79-08.



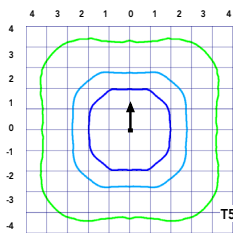
T5VS
Test No. LTL23271 tested in accordance with IESNA LM-79-08.



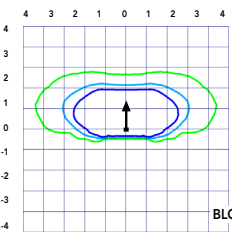
T5S
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



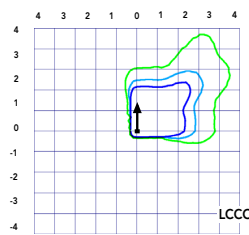
T5M
Test No. LTL23164B tested in accordance with IESNA LM-79-08.



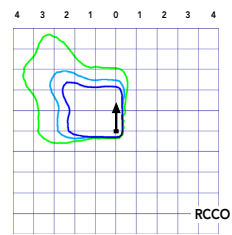
T5W
Test No. LTL23222 tested in accordance with IESNA LM-79-08.



BLC
Test No. LTL23271 tested in accordance with IESNA LM-79-08.



LCCO
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



RCCO
Test No. LTL23164B tested in accordance with IESNA LM-79-08.

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics																							
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130				
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130				
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131				
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127				
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131				
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128				
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131				
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136				
				T5S	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136				
				T5M	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136				
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135				
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107				
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80				
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80				
				30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
								T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
T2M	8,283	2	0					2	118	8,923	2	0	2	127	9,036	2	0	2	129				
T3S	8,021	2	0					2	115	8,641	2	0	2	123	8,751	2	0	2	125				
T3M	8,263	2	0					2	118	8,901	2	0	2	127	9,014	2	0	2	129				
T4M	8,083	2	0					2	115	8,708	2	0	2	124	8,818	2	0	2	126				
TFTM	8,257	2	0					2	118	8,896	2	0	2	127	9,008	2	0	2	129				
TSVS	8,588	3	0					0	123	9,252	3	0	0	132	9,369	3	0	0	134				
T5S	8,595	3	0					1	123	9,259	3	0	1	132	9,376	3	0	1	134				
T5M	8,573	3	0					2	122	9,236	3	0	2	132	9,353	3	0	2	134				
TSW	8,517	3	0					2	122	9,175	4	0	2	131	9,291	4	0	2	133				
BLC	6,770	1	0					2	97	7,293	1	0	2	104	7,386	1	0	2	106				
LCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79				
RCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79				
30	1050	P3	102W					T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
								T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125				
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121				
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125				
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122				
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125				
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130				
				T5S	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130				
				T5M	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130				
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129				
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102				
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76				
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76				
				30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
								T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
T2M	13,490	2	0					2	108	14,532	3	0	3	116	14,716	3	0	3	118				
T3S	13,064	3	0					3	105	14,074	3	0	3	113	14,252	3	0	3	114				
T3M	13,457	2	0					2	108	14,497	2	0	2	116	14,681	2	0	2	117				
T4M	13,165	2	0					3	105	14,182	2	0	3	113	14,362	2	0	3	115				
TFTM	13,449	2	0					3	108	14,488	2	0	3	116	14,672	2	0	3	117				
TSVS	13,987	4	0					1	112	15,068	4	0	1	121	15,259	4	0	1	122				
T5S	13,999	3	0					1	112	15,080	3	0	1	121	15,271	3	0	1	122				
T5M	13,963	4	0					2	112	15,042	4	0	2	120	15,233	4	0	2	122				
TSW	13,872	4	0					3	111	14,944	4	0	3	120	15,133	4	0	3	121				
BLC	11,027	1	0					2	88	11,879	1	0	2	95	12,029	1	0	2	96				
LCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72				
RCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72				
30	1400	P5	138W					T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
								T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117				
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113				
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116				
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114				
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116				
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121				
				T5S	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121				
				T5M	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121				
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120				
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95				
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71				
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71				

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFIM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				TSS	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975
T2S	19,206	3	0					3	105	20,690	3	0	3	113	20,952	3	0	3	114
T2M	19,305	3	0					3	105	20,797	3	0	3	114	21,060	3	0	3	115
T3S	18,696	3	0					3	102	20,141	3	0	3	110	20,396	3	0	4	111
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112
TFIM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119
TSS	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119
TSM	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119
TSW	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFIM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				TSS	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900
T2S	25,548	3	0					4	106	27,522	3	0	4	114	27,871	3	0	4	116
T2M	25,680	3	0					3	107	27,664	3	0	3	115	28,014	3	0	3	116
T3S	24,870	3	0					4	103	26,791	3	0	4	111	27,130	3	0	4	113
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113
TFIM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121
TSS	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121
TSM	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120
TSW	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71
RCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFIM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFIM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				TSS	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				TSM	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	P12	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFIM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFIM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				TSS	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				TSM	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

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

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



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DSX1-LED

Rev. 05/11/21

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Radean Post Top LED Area Luminaire



Catalog
Number

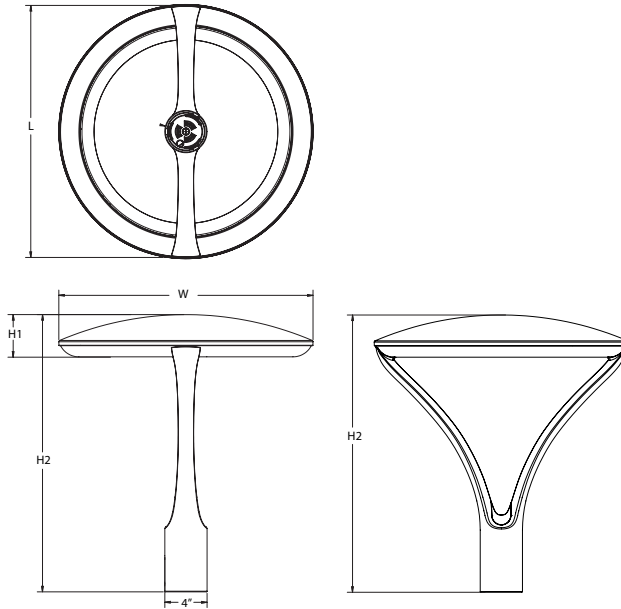
Notes

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Specifications

EPA:	1.02 ft ² (0.105 m ²)
Length:	24" (61cm)
Width:	24" (61cm)
H1 Luminaire Height:	4" (10.16cm)
H2 Luminaire Height:	26" (66.04cm)
Weight:	38lbs (17.24Kg)



Introduction

The architecturally-inspired shape of the RADEAN™ post top area luminaire embodies the grace and strength of the RADEAN family. The twin copper-core cast aluminum arms support the slender superstructure, creating a beautiful sculpture by day transforming into a beacon of comfort by night. Triangular arms redirect reflection maintaining its visually quiet appearance. With sleek lines and simple silhouettes, these LED luminaires use specialized lighting and visual comfort to transform common areas like courtyards, outdoor retail locations, universities and corporate campuses into pedestrian-friendly nighttime environments.

Ordering Information

EXAMPLE: RADPT LED P3 30K SYM MVOLT PT4 PIR DNAXD

Series	Performance package	Color temperature	Distribution	Voltage	Mounting (required)
RADPT LED	P1 3,000 Lumens P2 5,000 Lumens P3 7,000 Lumens P4 10,000 Lumens P5 15,000 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	SYM Symmetric type V ASY Asymmetric type IV PATH Pathway Type III	MVOLT ² 277 ² 120 ² 347 208 ² 480 240 ²	PT4 ³ Slips inside a 4" OD round metal pole RADPT20 Slips over a 2 3/8" diameter tenon RADPT25 Slips over a 2 7/8" diameter tenon

Control options	Other options	Shipped installed	Finish (required)
Shipped installed NLTAIR2 nLight AIR 2.0 enabled ⁴ PIR Bi-level motion/sensor (100% to 30%) ^{5,6,7,8} PE Button photocell ⁷ FAO Field adjustable output ^{5,9}	SF Single Fuse ² DF Double Fuse ² R90 Rotated optics ¹⁰	Shipped installed HS Houseside shield ¹¹	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



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RADPT LED
Rev. 04/19/22

Ordering Information

Accessories

Ordered and shipped separately.

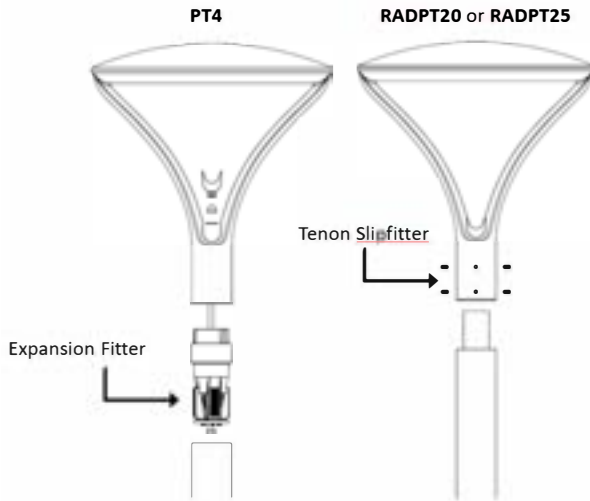
RADHS	Houseside shield (shield is white)
RADCS DDBXD U	Decorative clamshell base for 4" RSS pole (specify finish)
RADFBC DDBXD U	Full base cover for 4" RSS pole (specify finish)

For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- 2700K and 3500K may require extended lead-times.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Required nominal 4" round straight metal pole.
- NLTAIR2 not available with PIR, PE or FAO. Must link to external nLight Air network.
- PIR will work with FAO, if adjustable low-end trim is required.
- PIR must specify 120V, 277V, 347V or 480V. Not available in MVOLT, 208V or 240V.
- PE and PIR are available together.
- PIR for use only on luminaires mounted under 15'.
- Field adjustable high-end trim.
- For left rotation, select R90 and rotate luminaire 180° on pole.
- Also available as a separate accessory; see Accessories information at left. HS not available with R90. Shield is field rotatable shield in 180° increments.

Mounting

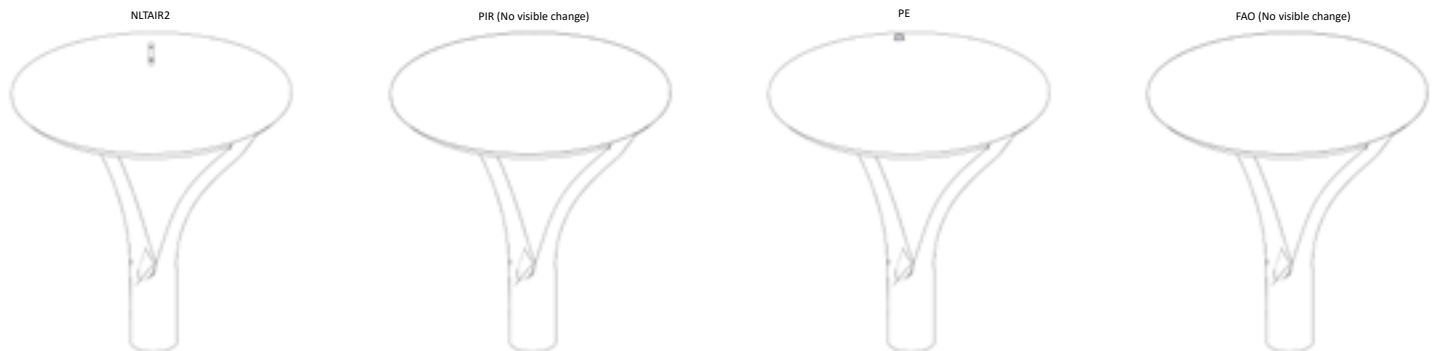


Recommended Poles for use with RADEAN RADPT LED Luminaires.

Acuity Part Number	Description	For luminaires	Used with Mounting
RSS 10 4B PT DDBXD	10' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 12 4B PT DDBXD	12' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 14 4B PT DDBXD	14' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 16 4B PT DDBXD	16' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 18 4B PT DDBXD	18' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 20 4B PT DDBXD	20' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 25 4B PT DDBXD	25' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 10 4B T20 DDBXD	10' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 12 4B T20 DDBXD	12' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 14 4B T20 DDBXD	14' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 16 4B T20 DDBXD	16' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 18 4B T20 DDBXD	18' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 20 4B T20 DDBXD	20' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 25 4B T20 DDBXD	25' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20

* Customer must verify pole loading per required design criteria and specified wind speed. Consult pole specification sheet for additional details.

Control Options



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Contact factory for performance data on any configurations not shown here.

Performance Package	Input Wattage	Distribution	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	25	ASY	2,924	2	1	2	115	3,022	2	2	2	119	3,095	2	2	2	122	3,168	2	2	2	125	3,168	2	2	2	125
		PATH	2,529	2	1	2	100	2,613	2	2	2	103	2,676	2	2	2	105	2,739	2	2	2	108	2,739	2	2	2	108
		SYM	3,086	2	1	1	121	3,189	2	1	1	126	3,266	2	1	1	129	3,344	2	1	1	132	3,344	2	1	1	132
P2	38	ASY	4,521	3	2	3	119	4,672	3	2	3	123	4,785	3	2	3	126	4,898	3	2	3	129	4,898	3	2	3	129
		PATH	3,909	2	2	2	103	4,040	2	2	2	106	4,137	2	2	2	109	4,235	3	2	3	111	4,235	3	2	3	111
		SYM	4,772	2	2	1	126	4,931	3	2	1	130	5,050	3	2	1	133	5,169	3	2	1	136	5,169	3	2	1	136
P3	54	ASY	6,387	3	2	3	119	6,600	3	2	3	123	6,760	3	2	3	126	6,919	3	2	3	129	6,919	3	2	3	129
		PATH	5,523	3	2	3	103	5,707	3	2	3	106	5,845	3	2	3	109	5,983	3	2	3	112	5,983	3	2	3	112
		SYM	6,741	3	2	2	126	6,966	3	2	2	130	7,135	3	2	2	133	7,303	3	2	2	136	7,303	3	2	2	136
P4	86	ASY	10,150	4	2	4	118	10,489	4	2	4	122	10,742	4	2	4	125	10,996	4	2	4	128	10,996	4	2	4	128
		PATH	8,777	3	2	3	102	9,070	3	2	3	106	9,289	3	2	3	108	9,509	3	2	3	111	9,509	3	2	3	111
		SYM	10,713	3	2	2	125	11,071	3	2	2	129	11,338	3	2	2	132	11,606	3	2	2	135	11,606	3	2	2	135
P5	123	ASY	14,250	4	2	4	116	14,724	4	2	4	120	15,081	4	3	4	123	15,437	4	3	4	126	15,437	4	3	4	126
		PATH	12,322	4	2	4	101	12,733	4	3	4	104	13,041	4	3	4	106	13,349	4	3	4	109	13,349	4	3	4	109
		SYM	15,040	4	2	3	123	15,541	4	2	3	127	15,917	4	2	3	130	16,293	4	2	3	133	16,293	4	2	3	133

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	LAT Factor	
0°C	32°F	1.06
5°C	41°F	1.05
10°C	50°F	1.04
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.96

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **RADPT LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

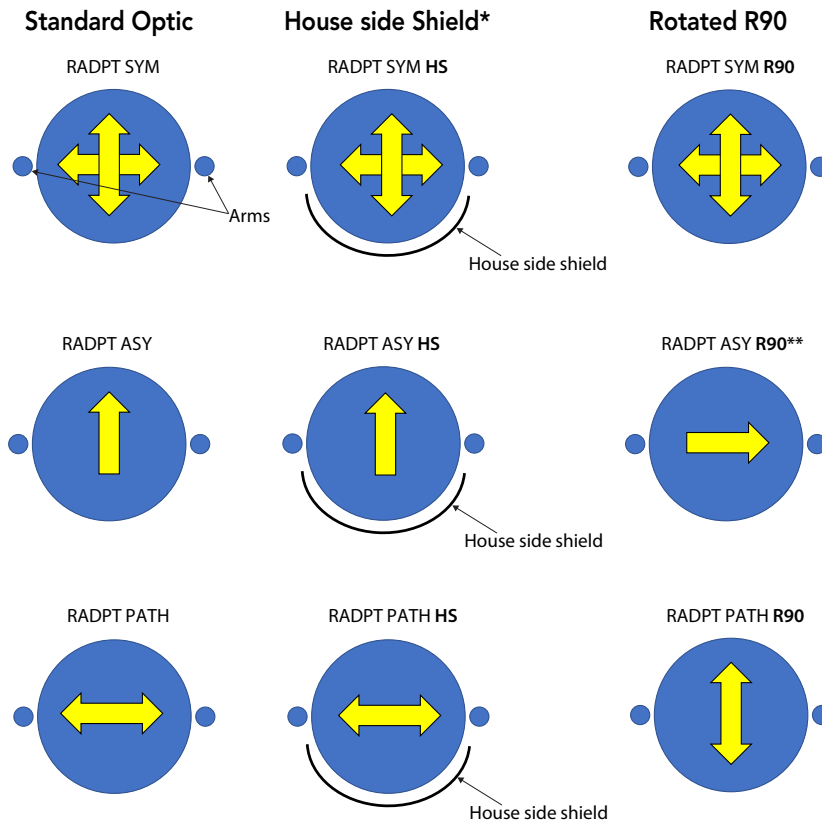
	Projected LED Lumen Maintenance			
	0	25,000	50,000	100,000
P1	1.00	0.96	0.91	0.82
P2	1.00	0.96	0.91	0.82
P3	1.00	0.96	0.91	0.82
P4	1.00	0.96	0.91	0.82
P5	1.00	0.95	0.89	0.78

Electrical Load

Lumen Package	LED Drive Current	Voltage	Wattage		Current (A)					
					120	208	240	277	347	480
P1	500	42.8	21.4	Input Current	0.22	0.13	0.11	0.1	0.08	0.06
				System Watts	26	26	26	27	25	26
P2	770	43	33.1	Input Current	0.33	0.19	0.16	0.14	0.11	0.08
				System Watts	39	39	39	39	38	38
P3	1100	43.2	47.5	Input Current	0.46	0.26	0.23	0.2	0.16	0.12
				System Watts	55	54	54	54	54	54
P4	900	87.3	78.6	Input Current	0.73	0.42	0.36	0.32	0.25	0.18
				System Watts	87	86	86	86	86	86
P5	1250	88.2	110.2	Input Current	1	0.58	0.5	0.44	0.35	0.25
				System Watts	120	119	119	119	120	120



Isofootcandle plots are considered to be representative of available optical distributions.



*HS not available with R90

**For L90, use R90 and rotate luminaire 180° on pole

FEATURES & SPECIFICATIONS

INTENDED USE

Pedestrian areas such as parks, campuses, pathways, courtyards and pedestrians malls.

CONSTRUCTION

Single-piece die-cast aluminum housing with nominal wall thickness of 0.125" on a 6mm thick acrylic waveguide is fully gasketed with a single piece tubular silicone gasket.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum and white. Available in textured and non-textured finishes.

OPTICS

6MM thick acrylic waveguide with 360° flexible LED board. Available in 2700K, 3000K, 3500K, 4000K and 5000K (80CRI) CCT configurations.

ELECTRICAL

Light engine consists of 96 high-efficacy LEDs mounted to a flexible circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low for operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Standard post-top mounting configuration fits into a 4" OD open pole top (round pole only). Alternate tenon (2-3/8" or 2-7/8") mounting also available.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color or less. U.S. Patent No. D925,088S

BUY AMERICAN

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



MANUFACTURER: BEGA
MODEL: 84 220 K3 BLK W 70895 DIRECT BURIAL
NOTES: Finish to be confirmed

TYPE:
S3

Shielded bollard - asymmetric wide beam

BEGA

Application

The fully shielded design of this bollard provides visual comfort while illuminating ground surfaces. Provided with mounting system that allows the luminaire to be adjusted independent of anchor bolt orientation.

Materials

Luminaire housing constructed of die-cast marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy
 Clear safety glass
 Reflector made of pure anodized aluminum
 Silicone applied robotically to casting, plasma treated for increased adhesion
 NRTL listed to North American Standards, suitable for wet locations
 Protection class IP 65
 Weight: 12.8 lbs

Electrical

Operating voltage 120-277V AC
 Minimum start temperature -30°C
 LED module wattage 11.5 W
 System wattage 15.0 W
 Controllability 0-10V, TRIAC, and ELV dimmable
 Color rendering index $Ra > 80$
 Luminaire lumens 1475 lumens (4000K)
 LED service life (L70) 50,000 hours

LED color temperature

- 4000K - Product number + **K4**
- 3500K - Product number + **K35**
- 3000K - Product number + **K3**
- 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:

Type:
 BEGA Product:
 Project:
 Modified:

Available options
70895 Direct burial anchorage



Shielded bollard - asymmetric wide beam

	LED	A	B	Anchorage
84 220	11.5 W	6 ¼	37 ¼	79817

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com Updated 07/12/21