

**PRELIMINARY**  
NOT FOR CONSTRUCTION

CITY OF BLOOMINGTON  
**FLEET REPAIR FACILITY**  
BLOOMINGTON, MINN.

A

B

C

DATE

10/29/24

PHASE

DESIGN

DEVELOPMENT

PROJECT

5015.0000

SHEET

**SP001**

ELECTRICAL SITE  
PHOTOMETRIC PLAN  
- INITIAL

D

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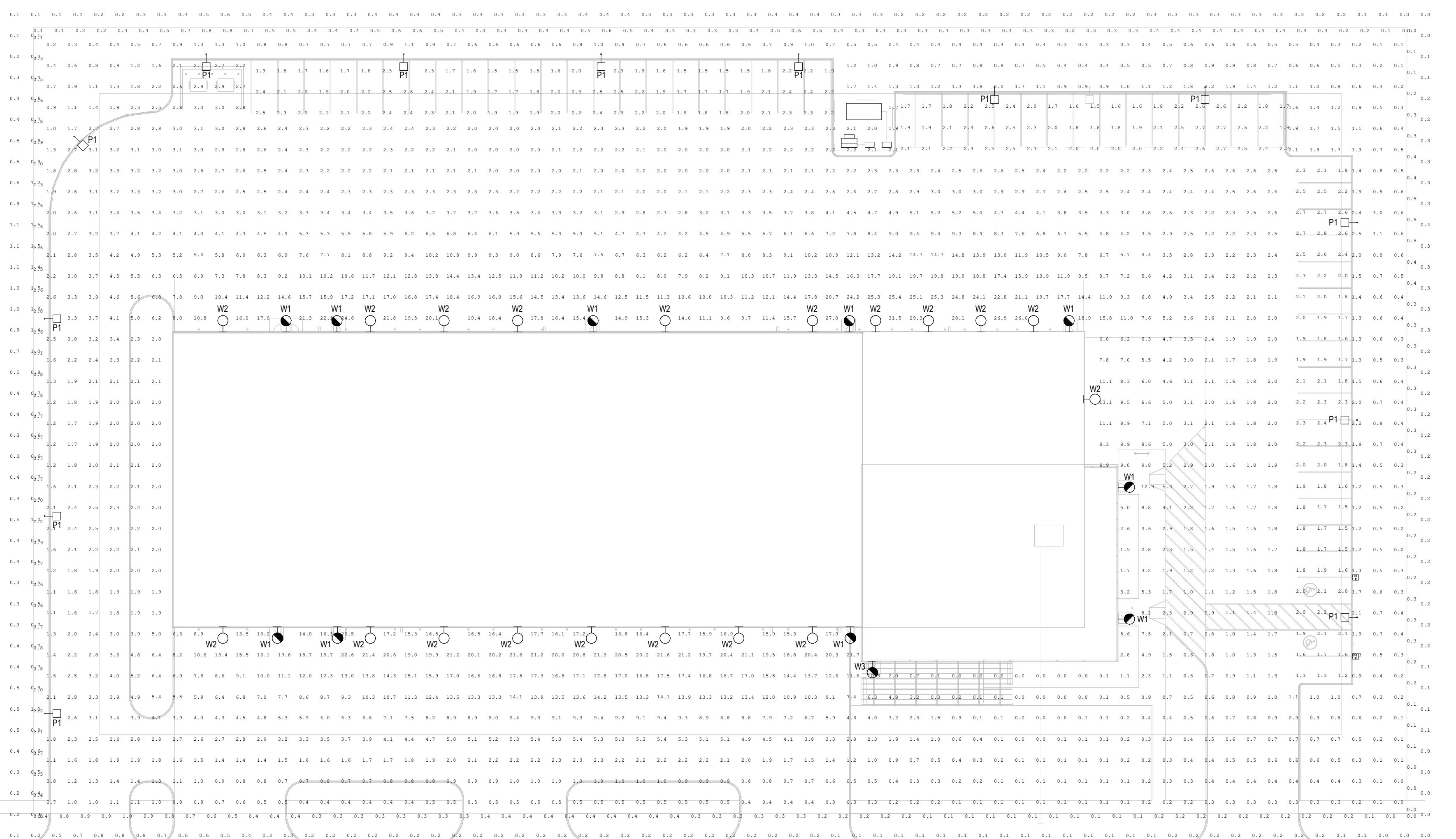
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**① ELECTRICAL SITE PHOTOMETRIC PLAN - INITIAL**

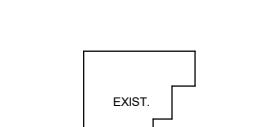
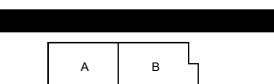
SCALE: 1"=30'-0"

Luminaire Schedule		Label	Description	LFL	Luminaire	Total Watts	Total Watts
P1		DXK1 LED P3 30K 80CRI 74M HS	DXK1 LED P3 30K 80CRI 74M HS	1.000	10446	102,172	1328.245
W1		WOGK4 LED P3 70CRI 83 40K	WOGK4 LED P3 70CRI 83 40K	1.000	22249	159,51	3030.69
W2		WOGK4 LED P3 70CRI 83 40K	WOGK4 LED P3 70CRI 83 40K	1.000	476	4,49	8.49
W3		WOGK4 LED P3 70CRI 83 40K	WOGK4 LED P3 70CRI 83 40K	1.000	476	4,49	8.49

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Label	CalcType
EAST PARKING	Illuminance	FC	2.01	2.8	1.2	1.68	2.23		
INSIDE PROP LINE	Illuminance	FC	0.34	0.45	0.2	0.34	0.45		
OUTSIDE PROP LINE	Illuminance	FC	4.79	52.3	0.0	N/A.	N/A.		
NORTH PARKING 1	Illuminance	FC	2.14	2.7	1.5	1.43	1.82		
NORTH PARKING 2	Illuminance	FC	2.14	2.7	1.5	1.43	1.82		
OUTSIDE PROP LINE	Illuminance	FC	0.13	1.6	0.0	N/A.	N/A.		
SOUTH PROP LINE	Illuminance	FC	0.32	1.0	0.0	N/A.	N/A.		
WEST PROP LINE	Illuminance	FC	0.28	1.0	0.1	0.15	0.22		



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SHEET

**SP002**
 ELECTRICAL SITE  
 PHOTOMETRIC PLAN  
 - MAINTAINED

D

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B

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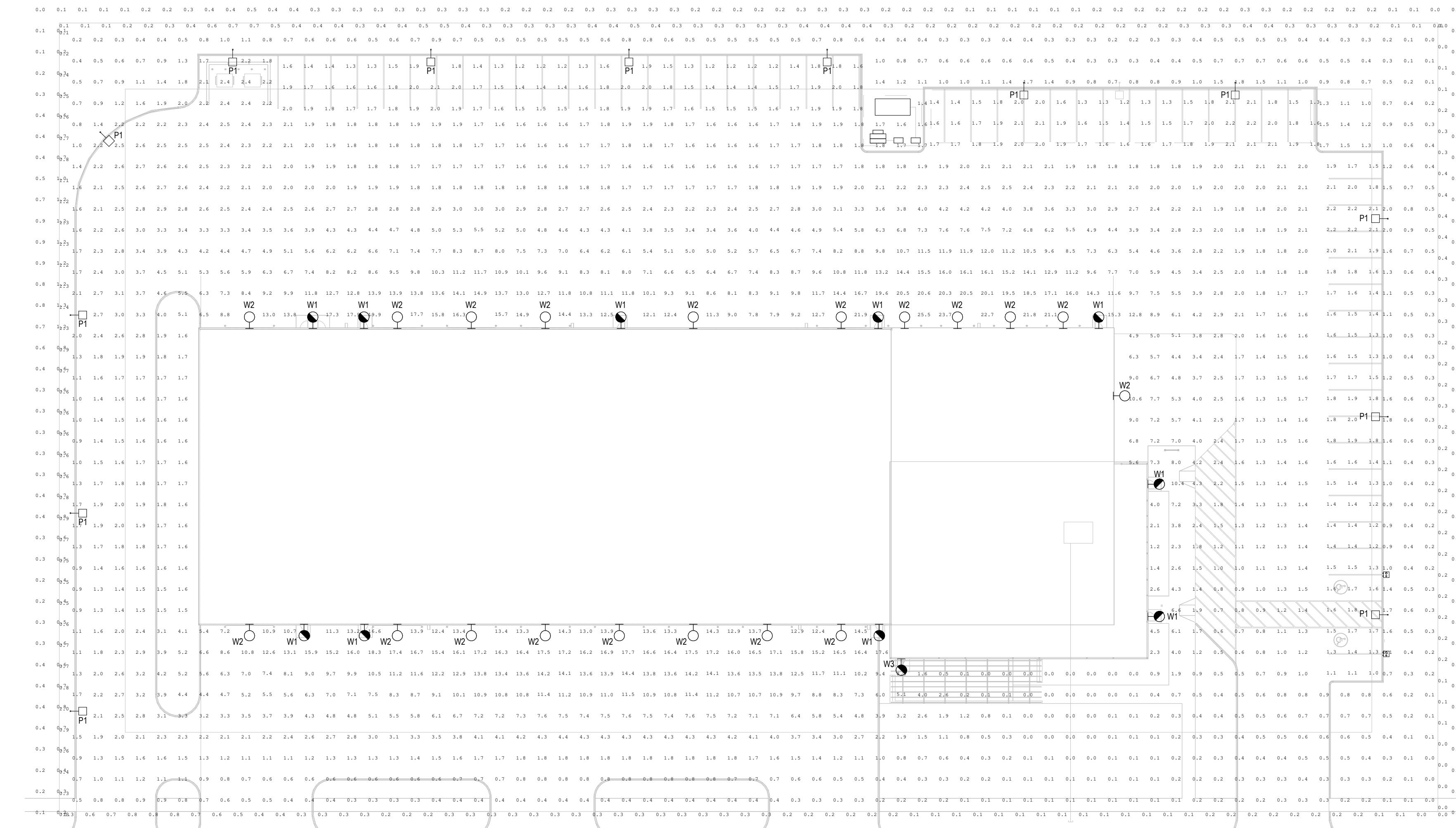
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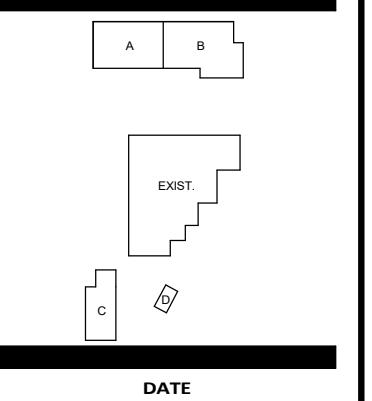
**① ELECTRICAL SITE PHOTOMETRIC PLAN - MAINTAINED**

SCALE: 1" = 30'-0"

Tag	Label	Description	LFL	Luminance	Luminance	Total
P1	DIXI LED P3 30K 80CR1 T4M HS	DIXI LED P3 30K 80CR1 T4M HS	0.810	1244.0	11.27	1328.245
M1	WODE2 LED P4 10K 80CR1 T2M	WODE2 LED P4 30K 80CR1 T2M	0.810	4982.0	46.859	4662.559
M2	WODE2 LED P4 10K 80CR1 T2M	WODE2 LED P4 30K 80CR1 T2M	0.810	5119.0	47.159	4671.859
M3	BLD 12IN SW 40K DP	BLD 12IN SW 40K DP	0.810	476.0	6.49	6.49

Calculation Summary						
Name	CalcType	Units	Avg	Max	Min	Avg/Min
EAST PARKING	Illuminance	FC	0.20	0.4	0.0	N/A
EAST PROPS LINE	Illuminance	FC	0.20	0.4	0.0	N/A
OUTSIDE PROPS LINE	Illuminance	FC	0.20	0.4	0.0	N/A
NORTH PARKING 1	Illuminance	FC	1.43	2.1	1.2	1.75
NORTH PARKING 2	Illuminance	FC	1.43	2.1	1.2	1.75
NORTH PROPS LINE	Illuminance	FC	0.21	0.7	0.0	N/A
OUTSIDE PROPS LINE	Illuminance	FC	0.23	1.4	0.0	N/A
SOUTH PARKING	Illuminance	FC	0.20	0.4	0.0	N/A
WEST PROPS LINE	Illuminance	FC	0.74	1.4	0.1	7.40





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**SP003**  
ELECTRICAL SITE  
LIGHTING  
CUTSHEETS

**D-Series Size 1**  
Legacy LED Area Luminaire

**Specifications**

EPA:	1.01 ft <sup>2</sup> (0.09 m <sup>2</sup> )
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2" (8.9 cm)
Weight (max):	27 lbs (12.3 kg)

**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 DBBXD G1										
DSX1 LED	LEDs	Color temperature	Distribution	Voltage	Mounting					
DSX1 LED	Forward optics	30K 3000 K	T15 Type I short (Automotive)	TSVS Type V very short <sup>1</sup>	MVOLT <sup>2</sup>	Shipped included				
P1 P4 P7 <sup>1</sup>	40K 4000 K	TSS Type V short <sup>1</sup>	XVOLT <sup>3</sup>	SPA Square pole mounting						
P2 P5 P8	50K 5000 K	T25 Type II short	TPM Type V medium <sup>1</sup>	RPA Round pole mounting <sup>4</sup>						
T2M Type II medium	TSW Type V wide <sup>1</sup>	120° WBA Wall bracket <sup>5</sup>								
T3M Type III short	BLC Backlight control <sup>6</sup>	208° SPUMBA Square pole universal mounting adaptor <sup>7</sup>								
T3M Type III medium	LCC Left corner cutoff <sup>8</sup>	240° RPUMBA Round pole universal mounting adaptor <sup>9</sup>								
T4M Type IV medium	RCC Right corner cutoff <sup>10</sup>	277° KMAE DBBXD U Mast arm mounting bracket adaptor (specify finish) <sup>11</sup>								
FTFM Forward throw medium		480°								

**Control options**

Shipped installed	PIR High/low motion/ambient sensor, 8'-15' mounting height, ambient sensor enabled at 8'-15'	DBBXD Dark bronze	G1 Generation 1
NLTAIR2	nlight AIR generation 2 enabled <sup>12</sup>	DBLXD Black	
PIRHN	Network, high/low motion/ambient sensor <sup>13</sup>	DNAXD Natural aluminum	
PER	NEMA twist-lock receptacle only controls	DWDXD White	
PERS	Five-pin receptacle only (controls ordered separately) <sup>14</sup>	DORBXD Textured dark bronze	
PER7	Seven-pin receptacle only (controls ordered separately) <sup>15</sup>	R90 Right rotated optics <sup>1</sup>	
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>16</sup>	DBLBXD Textured black	
DS	Dual switching <sup>17,18</sup>	DNATXD Textured natural aluminum	
		DWHGXD Textured white	
		DSSTXD Textured sandstone	

**Other options**

Finish (required)	Generation (required)
DBBXD Dark bronze	G1 Generation 1
DBLXD Black	
DNAXD Natural aluminum	
DWDXD White	
DORBXD Textured dark bronze	
R90 Right rotated optics <sup>1</sup>	
DBLBXD Textured black	
DNATXD Textured natural aluminum	
DWHGXD Textured white	
DSSTXD Textured sandstone	

**Notes**

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- 6. Backlight control = 340°
- 7. Mast arm mounting bracket adaptor = 340°
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- 12. nlight AIR generation 2 = 340°
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- 15. Seven-pin receptacle only = 340°
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- 18. Field adjustable output = 340°

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P2 P5 P8	50K 5000 K	T25 Type II short	TPM Type V medium <sup>1</sup>	RPA Round pole mounting <sup>4</sup>						
T2M Type II medium	TSW Type V wide <sup>1</sup>	120° WBA Wall bracket <sup>5</sup>								
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FTFM Forward throw medium		480°								

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P2 P5 P8	50K 5000 K	T25 Type II short	TPM Type V medium <sup>1</sup>	RPA Round pole mounting <sup>4</sup>						
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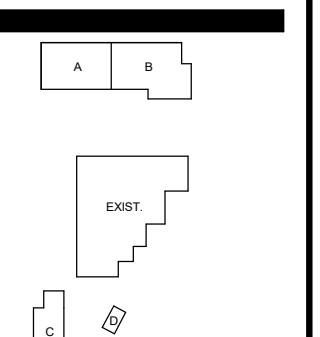
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SHEET

**SP004**  
ELECTRICAL SITE  
LIGHTING  
CUTSHEETS Copy 1

**BLADE BLD**  
Vandal Resistant  
BLD LED

**WALL MOUNT / MULLION MOUNT LED**

Fixture Type: \_\_\_\_\_ Date: \_\_\_\_\_  
Job Name: \_\_\_\_\_ Approved By: \_\_\_\_\_  
Catalog Number: \_\_\_\_\_

**CERTIFIED** **BAA** **BABA**

**SPECIFICATIONS**

**Description**: The Blade BLD combines a sleek, patent pending design shaped with high performance, full cut off optics to achieve unobtrusive illumination of a space or path of egress. When mounted over a doorway or mullion, the fixture is perceived as an element of the building structure, and, additionally, provides water protection in the form of a drip cap over the entranceway. Multiple lengths are available to match a given door opening and our quick-mount system facilitates installation and maintenance.

**Housing**: Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.

**Wall Mount**: Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.

**Lens Frame**: Marine grade heat treated extruded aluminum. Secured to fixture (4) captive stainless steel TORX® head screws.

**Lens**: Extruded UV stabilized opal polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.

**End Plate**: Die-cast marine grade aluminum. Chemically primed and finished with robotically applied polyester powder coat.

**Drivers**: Dimming to 1%, 10% or Programable Lumen Output driver options. Non-Dimming Driver is also available.

**LED**: Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 2 CRI wired in parallel-series. L70 projected life of over 130,000 hours at 50°C.

**Gaskets**: Closed cell self-adhesive neoprene to provide watertight seal between fixture and mounting surface.

**UL Listing**: U.L., C.U.L. Wet Location Listing standard.

**Government Procurement**: BAA - Buy American Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**Warranty**: Lifetime warranty. Luminaire LED incorporated will repair or replace any fixture damaged due to vandalism for a period of 10 years. 10-year warranty on LED boards against operational defects. Tested in accordance with LM-80. 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.

**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. The product images shown are for illustration purposes only and may not be an exact representation of the product. Specifications subject to change without notice.

**DIMENSIONAL DATA**

	A	B	C
BLD12	20.0"	5.6"	2.4"
BLD24	30.8"	5.6"	2.4"
BLD36	41.6"	5.6"	2.4"
BLD48	52.4"	5.6"	2.4"
BLD72	74.0"	5.6"	2.4"

**Luminaire LED** One Lithonia Way, Conyers GA 30012 | 1.800.705.SERV (7378) | [www.luminaireled.net](http://www.luminaireled.net)  
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**LUMINAIRE-LED-BLADE-BLD-LED**  
Rev. 03/28/24  
Page 1 of 5

**BLADE BLD**  
Vandal Resistant  
BLD LED

**ORDERING INFORMATION**

Example: BLD 48IN MIN1 35W 27K 120 CLP WHT

Series*	Size (Nominal)*	Drivers*	Dual Drivers	Wattage (Nominal)*	Lumens (For PRO Only)	
BLD	Mullion Mountable Vandal Resistant Full Cut-off Path of Egress Luminaire	12IN <sup>1,2</sup> 24IN <sup>3,4</sup> 36IN <sup>5</sup> 48IN <sup>6</sup> 72IN <sup>7</sup>	MIN1 Dimming to 1% MIN10 Dimming to 10% NODIM Non-Dimming Driver PRD Driver Programmable to Specified Output Consult Factory	20RV <sup>1,8</sup> Two LED drivers for independent LED board operations. PRD not available with Wattage PRD standard 0-10V dimming to 1%	5W 20W 55W 10W 30W 15W 35W Required for all drivers except PRD driver	200LM - 6300LM - Lumens available in 100LM increments Lumens required if PRD driver chosen

Color*	Voltage*	Lens*	Finish*
27K 2700K	120 120 Volt	DP Diffused Polycarbonate	BLK Black WHT White BRZ Bronze GRY Gray SL Silver CUST Custom Color. Consult Factory
30K 3000K	277 277 Volt		RALTB Red Paint finish
35K 3500K	MVOLT 120-277 Volt		RALBD Red for pricing only. Replace with applicable RAL call out when ready to order. See the <a href="#">RAL Color Chart</a> for available options
40K 4000K	347 <sup>8,11,12</sup> 347 Volt		
50K 5000K			

\*Required

**OPTIONS**

Emergency <sup>13</sup>	EMB310 Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). 1000 lumens	EMB20R <sup>14,15</sup> Remote mounted micro inverter that will operate a 25W maximum load for 90 min. 0°C (32°F) to 45°C (113°F)
EMB310ST	Self testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens	EMB125R <sup>16</sup> Remote inverter that will operate a maximum 125W load for 90 min. 20°C (68°F) to 30°C (86°F)
EMB310T20	Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens	EMB250R <sup>16</sup> Remote inverter that will operate a 250W maximum load for 90 min. 20°C (68°F) to 30°C (86°F)
EMB10ST	Self testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens	
EMBDA <sup>14,19</sup>	Two drivers and two emergency battery packs self-contained within fixture for independent light engine operation. Each battery pack will operate each light engine for a minimum of 90 minutes	

Knockout	Fusing	Photocell	Sensors	Hardware
K02 Optional mouse hole in both end caps for accessing 1/2" knockout	GLR <sup>17</sup> Fuse and Fuse Holder	PC <sup>11,12</sup> Photoelectric Switch	PIR <sup>18</sup> Passive Infrared Occupancy Sensor/Daylight Harvesting Photocell. Maximum coverage 10' radius from 8' height. PIRSO <sup>18,19</sup> Passive Infrared Occupancy Sensor/Daylight Harvesting Photocell. Maximum coverage 10' radius from 8' height. 50% of LED's constantly on and 50% dimmed on. RCHRC required for Field Adjustable Settings	PHSC Phillips Head, TORX® head

**Ordering Notes**

- See Color and Wattage Chart
- Not available with EMB10ST, EMB310, EMB310ST, or EMB310T20
- 12W with MIN1 or PRD. Not available with PRD
- 40W with MIN1 or PRD and EMB310, EMB310ST, or EMB310T20
- Not available with 20RV and PR or PRS
- Not available with PR or PRS and EMB10ST, EMB310, EMB310ST, or EMB310T20
- 30W with MIN1 or PRD and EMB10ST, EMB310, EMB310ST, or EMB310T20
- 48W with MIN1 or PRD. Not available with 20RV and PR or PRS and EMB10ST, EMB310, EMB310ST, or EMB310T20
- Not available with T20
- Not available with 20RV and PR or PRS
- Not available in 30W with 20RV
- Not available with 347V
- Only available in T20
- Not available with 347V
- Not available with MVOLT or 347V
- Not available with PR or PRS
- Not available with EMB20R, EMB125R, EMB250R
- Must include 20RV

**Accessories:** Order as separate catalog number.

TSD TORX® Screwdriver Bit  
Initial shipment includes one (1) TSD per fixture

RCHRC Remote Control for Field Adjustable Sensor Settings  
One (1) RCHRC per Job for PIR/PIRSO Sensor. Optional

**Luminaire LED** One Lithonia Way, Conyers GA 30012 | 1.800.705.SERV (7378) | [www.luminaireled.net](http://www.luminaireled.net)  
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**LUMINAIRE-LED-BLADE-BLD-LED**  
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