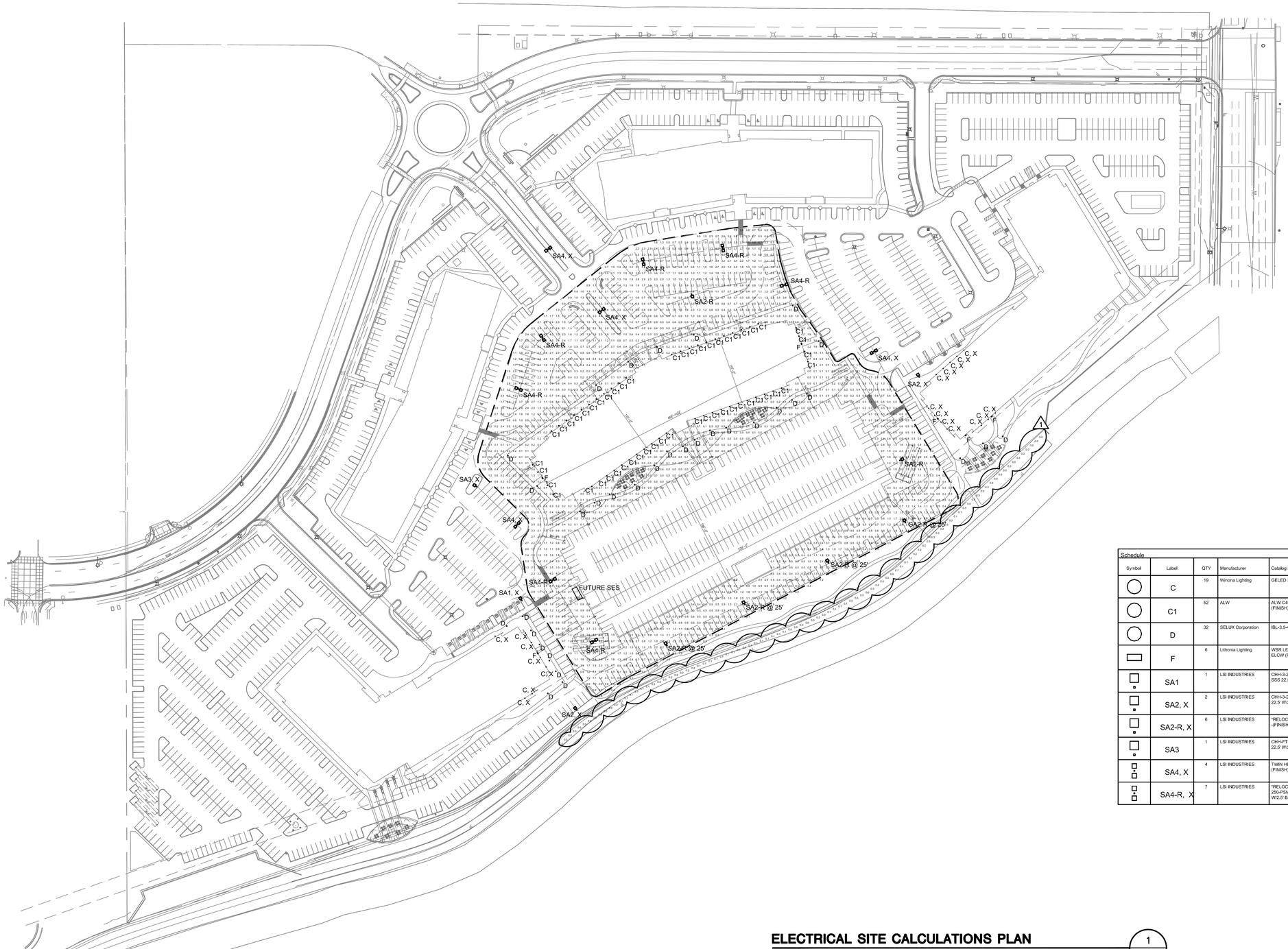

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE	+	0.1 fc	0.3 fc	0.0 fc	N/A	N/A
Calculation Points						
SITE - FC @ GRADE	+	1.4 fc	36.4 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage
	C	19	Winona Lighting	GELED 3023 12V L0 BRS F0 SH0	GEM LED WALL MOUNT LED CYLINDER MOUNTED @ 12'	LED	3023_LED16_2_5deg_3000K_LTL22352.IES	Absolute	0.91	5.8
	C1	52	ALW	ALW C4LS N N W 20 83 40 51 (FINISH)	CORE 400 LX SCONCE MOUNTED @ 12'	LED	CORE QUBE 400_SSCRL_200 0lm_51 degree.IES	2000	0.91	15.2
	D	32	SELUX Corporation	IBL-3,5-4Q-40-(FINISH)-120-DS	INULA BOLLARD LED MOUNTED @ 3'-6"	LED	IBL-X-4Q-40-XX-120-DS.ies	2088	0.91	27.06
	F	6	Lithonia Lighting	WSR LED 2 10A700/40K SR4 MVOLT ELOW (FINISH)	WSR LED WITH 1 MODULE, 20 LED's, 700mA DRIVER, 4000K COLOR TEMPERATURE, TYPE 4 MOUNTED @ 10'	LED	WSR_LED_2_10A700_40K_SR4_MVOLT.ies	3839	0.91	47
	SA1	1	LSI INDUSTRIES	CHH-3-250-PSMH-F-HSS-(FINISH) / SSS 22.5' W/2.5' BASE	CHALLENGER MOUNTED @ 25'	1- 250W PSMH CLEAR U	CHH-3-250-PSMH-F-HSS.ies	22000	0.81	291
	SA2, X	2	LSI INDUSTRIES	CHH-3-250-PSMH-F-(FINISH) / SSS 22.5' W/2.5' BASE	CHALLENGER MOUNTED @ 25'	1- 250W PSMH CLEAR U	CHH-3-250-PSMH-F.ies	22000	0.81	291
	SA2-R, X	6	LSI INDUSTRIES	*RELOCATED* - CHH-3-250-PSMH-F-(FINISH) / SSS 22.5' W/2.5' BASE	CHALLENGER MOUNTED @ 25'	1- 250W PSMH CLEAR U	CHH-3-250-PSMH-F.ies	22000	0.81	291
	SA3	1	LSI INDUSTRIES	CHH-FT-250-PSMH-F-(FINISH) / SSS 22.5' W/2.5' BASE	CHALLENGER MOUNTED @ 25'	1- 250W PSMH CLEAR U	CHH-FT-250-PSMH-F.ies	22000	0.81	291
	SA4, X	4	LSI INDUSTRIES	TWIN HEAD CHH-5-250-PSMH-F-(FINISH) / SSS 22.5' W/2.5' BASE	TWIN HEAD CHALLENGER MOUNTED @ 25'	1- 250W PSMH CLEAR U	CHH-5-250-PSMH-F.ies	22000	0.81	582
	SA4-R, X	7	LSI INDUSTRIES	*RELOCATED* - TWIN HEAD CHH-5-250-PSMH-F-(FINISH) / SSS 22.5' W/2.5' BASE	TWIN HEAD CHALLENGER MOUNTED @ 25'	1- 250W PSMH CLEAR U	CHH-5-250-PSMH-F.ies	22000	0.81	582

12/3/20 – CITY COMMENTS 1

ELECTRICAL SITE CALCULATIONS PLAN

SCALE: 1" – 80'–0"

1
E200

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 51498
HALLEH LANDON
Date Signed 12/03/20
ARIZONA U.S.A.
EXP: 9/30/22

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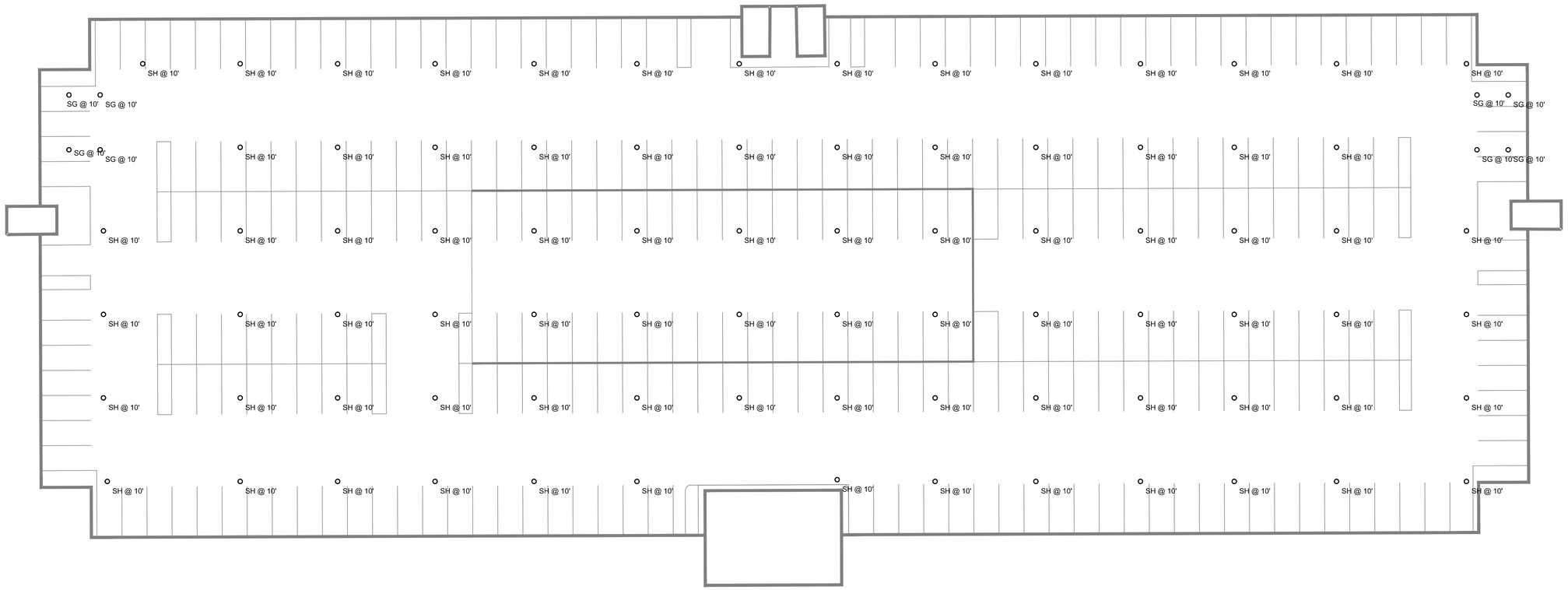

ELECTRICAL LIGHTING LEVEL 1

SCALE: 1" – 20'–0"

1
E100

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
51498
HALLEH
LANDON
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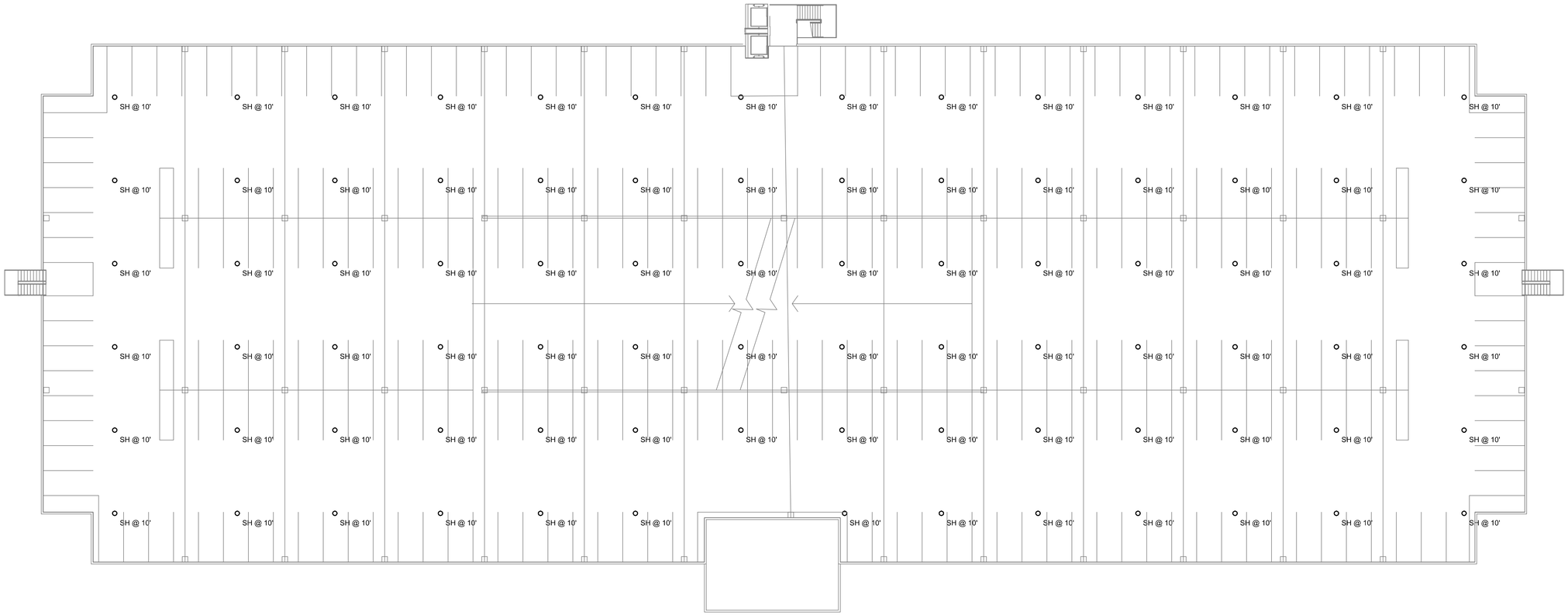

ELECTRICAL LIGHTING LEVEL 2-3

SCALE: 1" – 20'–0"

1
E100

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LANDON
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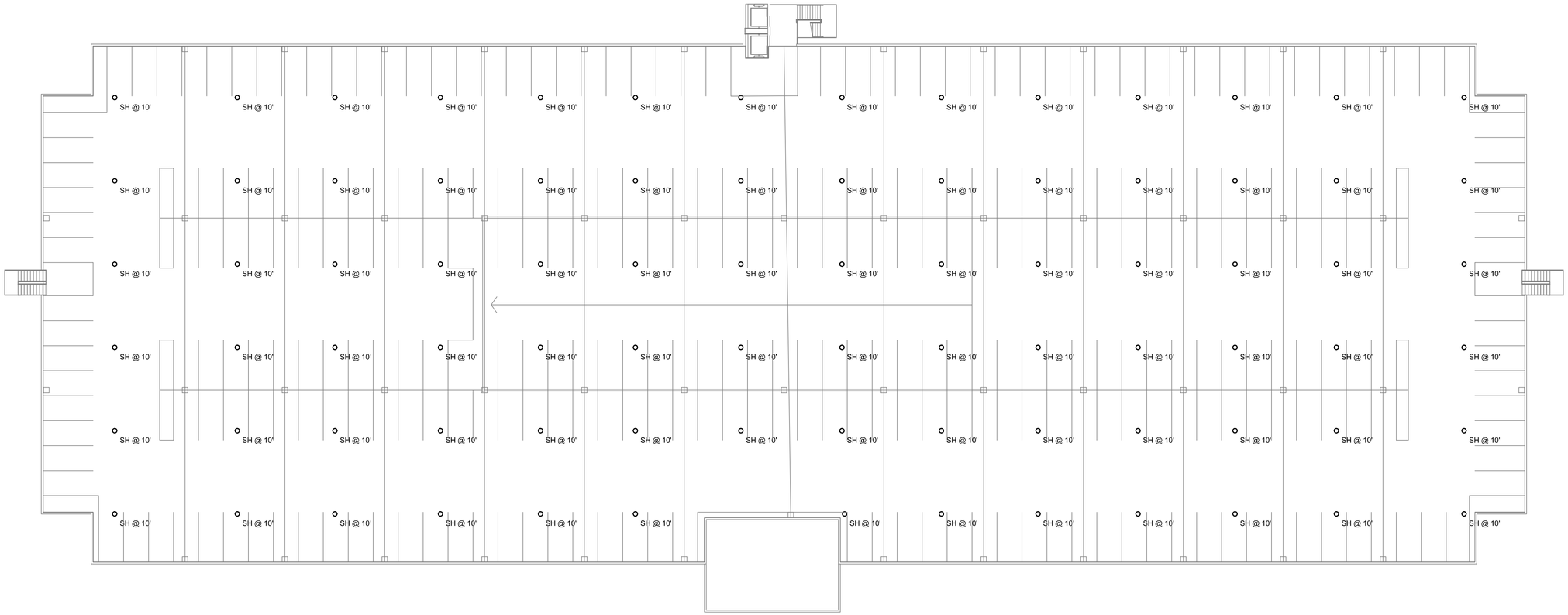

ELECTRICAL LIGHTING LEVEL 4

SCALE: 1" – 20'–0"

1
E100

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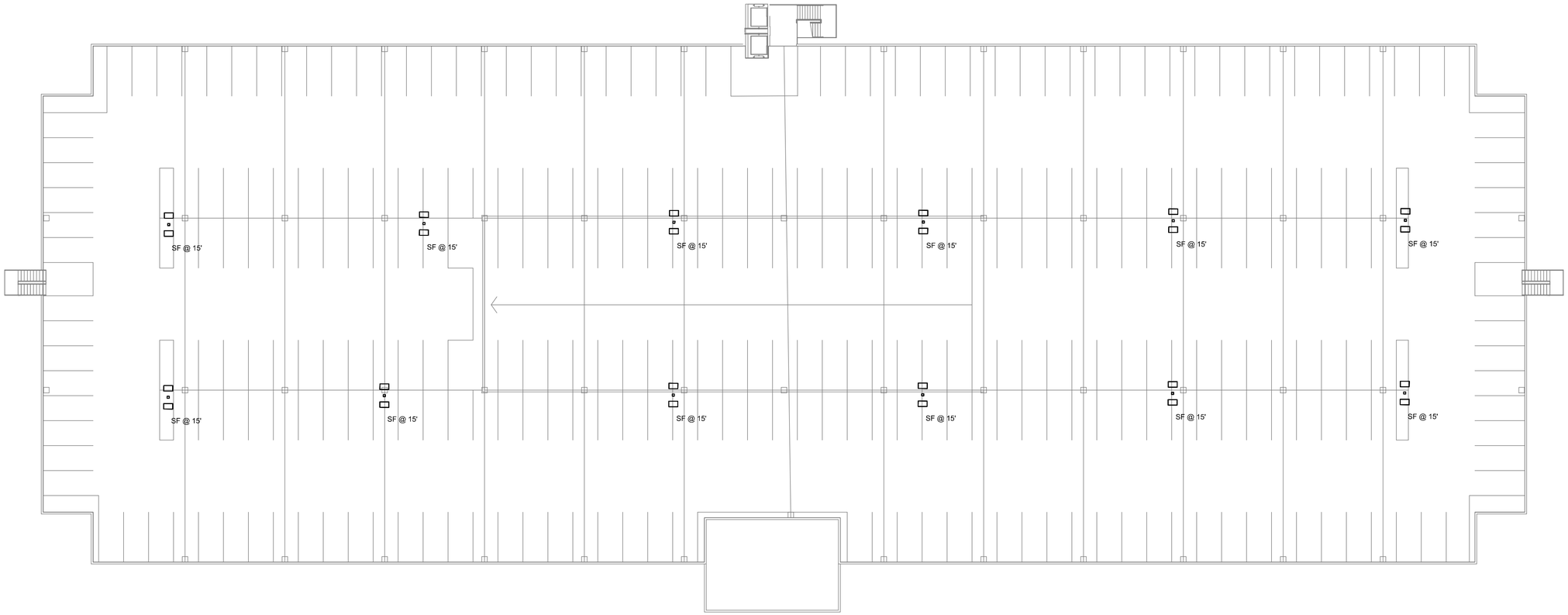

ELECTRICAL LIGHTING LEVEL ROOF

SCALE: 1" – 20'–0"

1
E100

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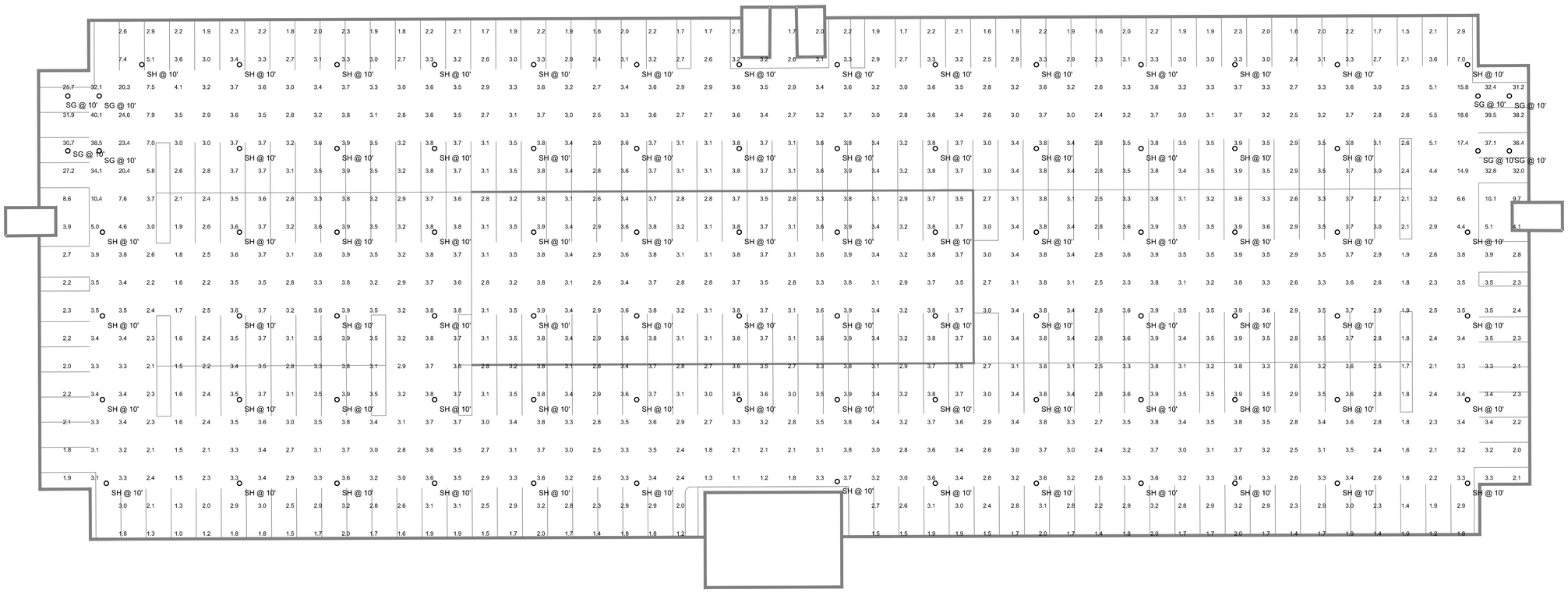
Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage
	SH	247	Lithonia Lighting	VCPG LED P1 40K T5W MVOLT (FINISH)	VCPG LED WITH P1 - PERFORMANCE PACKAGE, 4000K, T5W OPTIC TYPE	LED	VCPG_LED_P1_40K_T5W_MVOLT.ies	3826	0.91	26.57

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
LEVEL 1 - FC @ FLOOR	+	3.8 fc	40.1 fc	1.0 fc	40.1:1	3.8:1



ELECTRICAL LIGHTING CALCULATIONS LEVEL 1

SCALE: 1" – 20'–0"

1
E100

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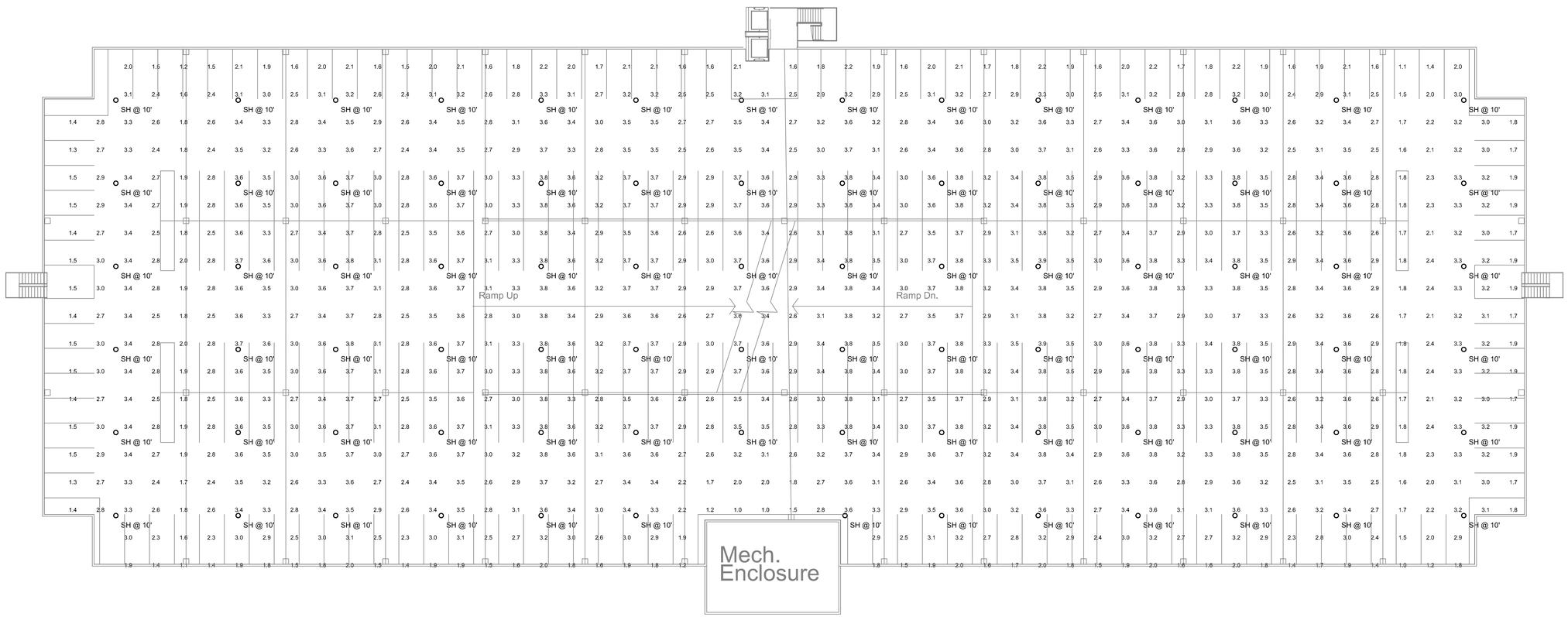
Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage
	SH	247	Lithonia Lighting	VCPG LED P1 40K T5W MVOLT (FINISH)	VCPG LED WITH P1 - PERFORMANCE PACKAGE, 4000K, T5W OPTIC TYPE	LED	VCPG_LED_P1_40K_T5W_MVOLT.ies	3826	0.91	26.57

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
LEVEL 2 & 3 - FC @ FLOOR	+	2.9 fc	3.9 fc	1.0 fc	3.9:1	2.9:1



ELECTRICAL LIGHTING CALCULATIONS LEVEL 2-3

SCALE: 1" – 20'–0"

1
E100

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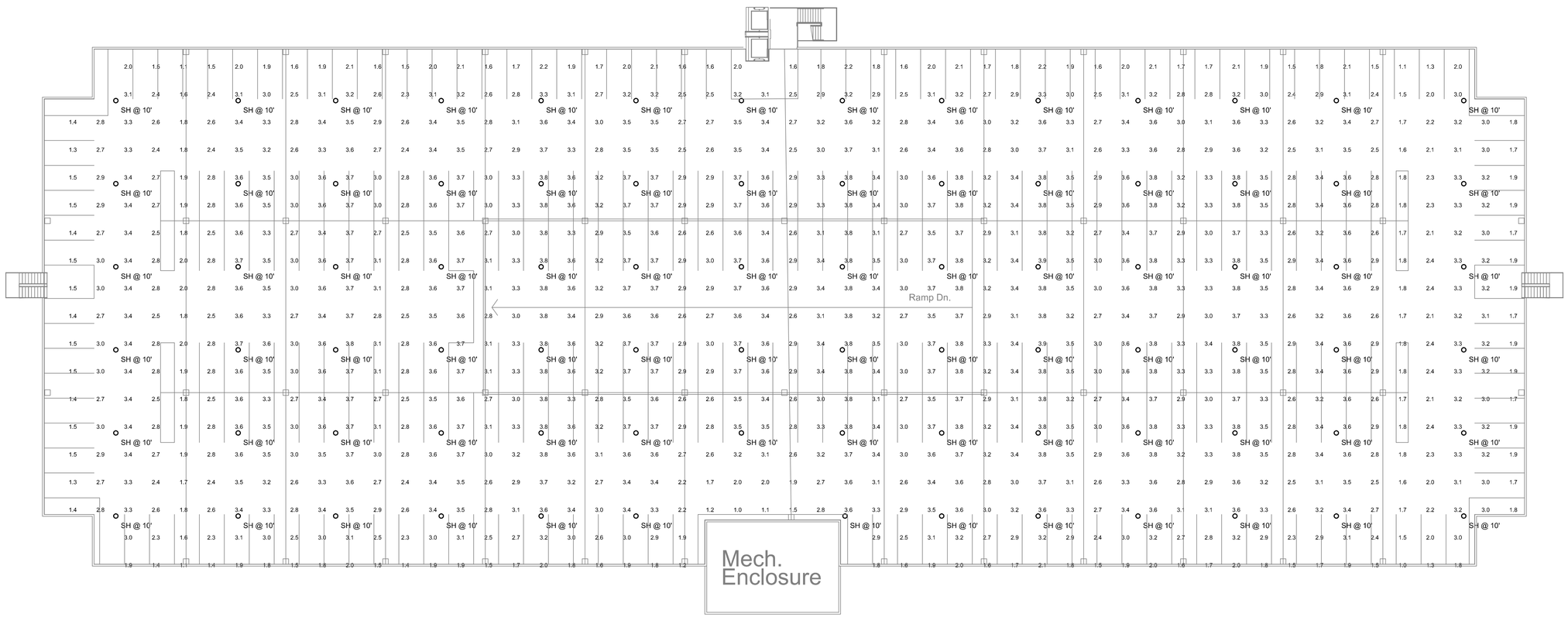
Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage
	SH	247	Lithonia Lighting	VCPG LED P1 40K T5W MVOLT (FINISH)	VCPG LED WITH P1 - PERFORMANCE PACKAGE, 4000K, T5W OPTIC TYPE	LED	VCPG_LED_P1_40K_T5W_MVOLT.ies	3826	0.91	26.57

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
LEVEL 4 - FC @ FLOOR	+	2.9 fc	3.9 fc	1.0 fc	3.9:1	2.9:1



ELECTRICAL LIGHTING CALCULATIONS LEVEL 4

SCALE: 1" – 20'–0"

1
E100

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DAVIS

WAYPOINT 5- Mesa, Arizona

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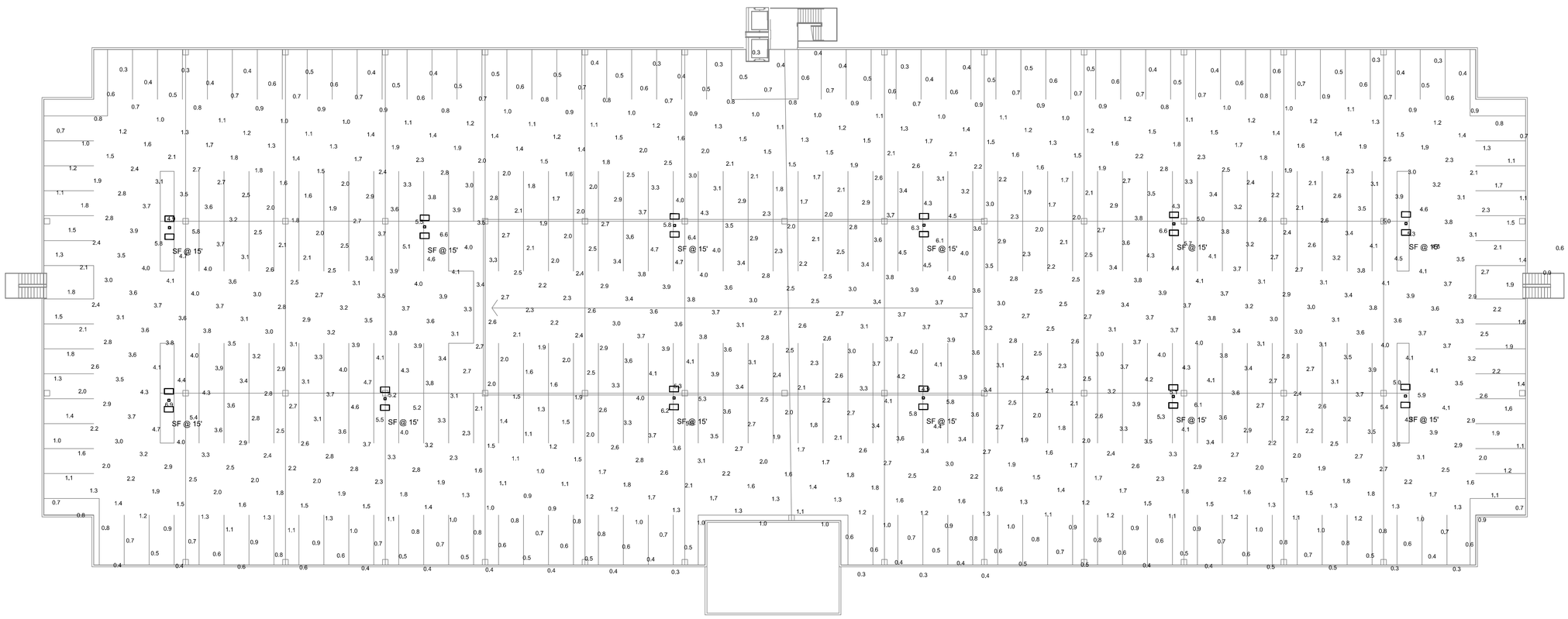
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING TOP DECK - FC @ FLOOR	+	2.3 fc	6.9 fc	0.3 fc	23.0:1	7.7:1

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage
	SF	12	Lithonia Lighting	(2) DSX0 LED P4 40K T5W MVOLT SPA (FINISH) / SSS 12.5' W/2.5' BASE	TWIN-HEAD DSX0 LED P4 40K T5W MVOLT	LED	DSX0_LED_P4_40K_T5W_MVOLT.ies	10889	0.91	184



ELECTRICAL LIGHTING CALCULATIONS ROOF

SCALE: 1" – 20'–0"

1
E100

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WAYPOINT 5- Mesa, Arizona

14111- 5-1-20

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CORE 400 LX
SCONCE

ALW

PROJECT

Job _____

Type _____

Part # _____

Notes

SPECIFICATIONS

Source Xicato XTM LED module - up to 5000 lumens
CCT 2700K, 3000K, 3500K or 4000K
Color Consistency 1x2 SDCM (MacAdam) along BBL, CCT +/- 40K to 70K, Duv +/- .001
CRI (Ra) 83 or 98
Driver / Location Included / Internal with remote or deep canopy options
Dimming 0-10V or phase dimming to 10% standard; DALI, DMX and 1% dimming available
Input Voltage 100 to 277VAC, phase dimmable versions are 120VAC only
Power Up to 57 watts max, depending on LED module / driver
Reflector 11°, 25°, 41°, 51°, or 83° - field replaceable without tools
Material CNC machined aluminum with stainless steel hardware
Finish Powder coat - TGIC polyester for exterior and interior use
Weight 8.5 lb. [3.9 kg]
Location Listed for Wet & Damp locations
Approvals ETL Listed to UL 1598, 2108, 8750 and CSA C22.2# 9 & #250.0
L80 Life > 50,000 hours at 80% lumen maintenance based on IESNA LM-80-08
Warranty Lifetime Limited Warranty - see warranty for details
IES Files LM-79-08 IES files available
Modifications Any modification or customization is possible - consult factory

LED · INDOOR OUTDOOR · WET LOCATION · DIMMABLE · XICATO · TITLE 24 · Intertek

ORDERING LOGIC

Model	Driver Location	Dimming	Mounting Location	Output	CRI *	C.C.T.	Reflector	Shell Color	Options
C4LS -			-				-	-	
	N=Internal	**N**=None	**D**=Damp	**07**=700 lm	**83**=83	**27**=2700K	**11**=11° **	**XX**	
	R=Remote	**P**=Phase	**W**=Wet	**10**=950 lm	**98**=98*	**30**=3000K	**25**=25°	(see chart on page 4)	
	D=Deep Canopy	**1**=0-10V		**13**=1300 lm		**35**=3500K	**41**=41°		
		Z=Other		**20**=2000 lm		**40**=4000K	**51**=51°	**ZZ**=Custom	
				30=3000 lm			**83**=83° **		
				40=4000 lm					
				50=5000 lm					

* 98 CRI not available in 4000 or 5000 lm

** Not available with wet location

Example Part Number: **C4LS-NND-13832741-S3**
CORE **4**00 **L**X **S**conce + **N**ternal Driver, **N**o Dimming, **D**amp Location + **20**00 lm, **83** CRI, **27**00K, **41°** Reflector + **S3** Red Shell

A 1035 22nd Avenue, Unit 1 - Oakland, CA 94606 **P** 510.489.2530 **E** TalkToUs@alwusa.com **W** alwusa.com **1**

rev 191209

TYPE C1 P. 1 OF 2

CORE 400 LX
SCONCE

ALW

PHOTOMETRICS

LM-79-08 IES files available

Beam Angle	Order Code	Intensity Plot (cd) (3000lm)	Polar Plot (cd) (3000lm)	Cone Diagram (3000lm)	Description
11°	**11**	0, 7375, 14750, 22125, 29500	29500, 23600, 17700, 11800, 5900, 0; 0, 30, 60, 90	Illuminance at Center: 5' 1178 fc; 10' 295 fc; 15' 131 fc; 20' 74 fc. Beam Diameter: 1.0', 1.9', 2.9', 3.8'	CBCP = 29,547 cd Beam Angle = 11° Field Angle = 23° LOR = 89.1 % Beam = full width @ 50% Field = full width @ 90%
25°	**25**	0, 1950, 3900, 5850, 7800	7800, 6240, 4680, 3120, 1560, 0; 0, 30, 60, 90	Illuminance at Center: 5' 311 fc; 10' 78 fc; 15' 35 fc; 20' 19 fc. Beam Diameter: 2.2', 4.5', 6.7', 8.9'	CBCP = 7,785 cd Beam Angle = 25° Field Angle = 59° LOR = 87.5 % Beam = full width @ 50% Field = full width @ 90%
41°	**41**	0, 1300, 2600, 3900, 5200	5200, 4160, 3120, 2080, 1040, 0; 0, 30, 60, 90	Illuminance at Center: 5' 205 fc; 10' 51 fc; 15' 23 fc; 20' 13 fc. Beam Diameter: 3.7', 7.4', 11.1', 14.8'	CBCP = 5,127 cd Beam Angle = 41° Field Angle = 62° LOR = 82.4 % Beam = full width @ 50% Field = full width @ 90%
51°	**51**	0, 900, 1800, 2700, 3600	3600, 2880, 2160, 1440, 720, 0; 0, 30, 60, 90	Illuminance at Center: 5' 143 fc; 10' 36 fc; 15' 16 fc; 20' 9 fc. Beam Diameter: 4.8', 9.6', 14.4', 19.1'	CBCP = 3,564 cd Beam Angle = 51° Field Angle = 76° LOR = 83.0 % Beam = full width @ 50% Field = full width @ 90%
83°	**83**	0, 475, 950, 1425, 1900	1900, 1520, 1140, 760, 380, 0; 0, 30, 60, 90	Illuminance at Center: 5' 72 fc; 10' 18 fc; 15' 8 fc; 20' 5 fc. Beam Diameter: 8.9', 17.8', 26.7', 35.6'	CBCP = 1,802 cd Beam Angle = 83° Field Angle = 96° LOR = 84.8 % Beam = full width @ 50% Field = full width @ 90%

Beam Shaping Options

Add the order code shown below to the options box at the end of the part number:

Order Code	Description
-HL	Honeycomb Louver
-DF	Diffusion Lens
-SF	Satin finish on any standard reflector
-LS	Linear Spread Lens (80° x 1°)
-WW	Wall Wash Lens (shifts beam 20° from vertical)

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rev 191209

TYPE C1 P. 2 OF 2

Date: _____ Customer: _____

Project: _____

Type: _____ Qty: _____

selux

Inula Bollard LED

Order Code: IBL - ____ - ____ - ____ - ____ - ____ - ____ - ____ - ____

IBL

Series — **IBL** Inula Bollard LED

Height — **1.5** 1.5 ft. (consult factory); **2** 2 ft. (consult factory); **2.5** 2.5 ft; **3** 3 ft; **3.5** 3.5 ft; **4** 4 ft

Light Engine — **1Q**[1] 7.6w/577 lm; **2Q90** 14.1w/1156lm; **2Q180** 14.1w/1156 lm; **3Q** 20.5w/1689 lm; **4QS** 27.2w/2246 lm; **4QD** 27.2w/2246 lm

CCT — **AM**[5, 15] Amber; **30**[1] 3000K; **40** 4000K; **50** 5000K

Finish — **WH** White; **BK** Black; **BL** Semi-Matte Black; **BZ** Bronze; **SV** Silver; **SP** Specify Premium Color

Voltage — **UNV** 120-277V; **120** 120V; **208** 208V; **240** 240V; **277** 240V; **347**[3,16] 347V; **480**[3,16] 480V

Options — **DM** Dimming (0-10V); **HL30**[4,7,10, 12] Hi-Lo Switching 100-50%; **REC**[1,4,6] GFCI Receptacle w/ weather-proof cover; **REC2**[2,4,6] GFCI Receptacle w/ padlockable in-use cover; **EM**[8,9,13] Emergency Battery Pack 15° - 20C; **PC** [11] Photocell; **LP**[13, 14, 15] Lower Power Version Decreases Light Output by 60%; **HP**[12] High Power Version Increases Light Output by 100%; **REC3** USB & Duplex Receptacle w/ weather-proof cover; **REC4** USB & Duplex Receptacle w/ weatherproof padlockable in-use cover

*Based on 5000K CCT, 120-277V
*Not available with EM

*IDA Approved
For other CCT please consult factory

*50 or 60 Hertz
*Requires step down transformer, 60 Hertz Only

*120-277V Only
*120V Only
*Not available in 2.5' height
*Not available at 208V.
*Not available with 1Q
*120V or 277V only
*Not available with DM Option
*Not available at 480V
*Not available with EM option
*Not available with PC or LP option
*Not available with HL30 or HP options
*For 1Q, 2Qxx and 3Q please consult factory
*Not available with HL30

Product Modifications

Please list modification requirements for review by factory:

Approvals

Date:

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In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

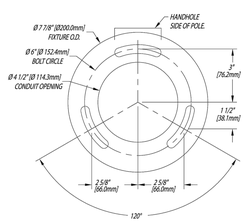
TYPE D P. 1 OF 4

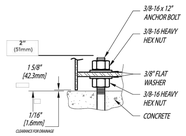
selux

Inula Bollard LED

Mounting Information

NOTES:
1. BOLLARD ORIENTATION IS CRITICAL, ROD AND HAND HOLE LOCATIONS ARE CRITICAL.
2. LOCATE SINGLE BOLT AT HAND HOLE LOCATION.
3. ADEQUATE DRAINAGE MUST BE PROVIDED IN CONCRETE FOUNDATION.
4. CONDUIT SHOULD BE STUBBED UP ABOVE THE CONCRETE FOOTING.





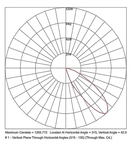
BOLT CIRCLE DETAIL (NOT TO SCALE)

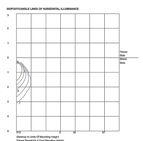
USE CAUTION WHEN SETTING ANCHOR BOLTS. BOLTS MUST BE VERTICALLY STRAIGHT AND CENTERED ON DIMENSIONS SHOWN.

Photometry

1Q / 8W LED / 5000K CCT

Catalog #: IBL-X-1Q-50-XX-120-DS
Report #: 197031-50
Maximum candela of 1256 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
577 Delivered Lumens
75 Lumens per Watt
80-U0-G0





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TYPE D P. 2 OF 4

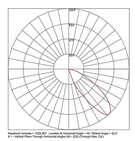
selux

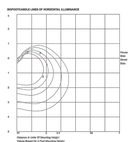
Inula Bollard LED

Photometry

2Q90 / 14W LED / 5000K CCT

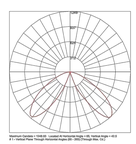
Catalog #: IBL-X-2Q90-50-XX-120-DS
Report #: 197029-50
Maximum candela of 1229 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1158 Delivered Lumens
82 Lumens per Watt
80-U0-G0

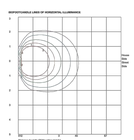




2Q180 / 14W LED / 5000K CCT

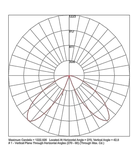
Catalog #: IBL-X-2Q180-50-XX-120-DS
Report #: 197024-50
Maximum candela of 1249 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1156 Delivered Lumens
81 Lumens per Watt
81-U0-G0

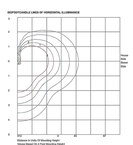




3Q / 20W LED / 5000K CCT

Catalog #: IBL-X-3Q-50-XX-120-DS
Report #: 197021-50
Maximum candela of 1223 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1689 Delivered Lumens
82 Lumens per Watt
81-U0-G0





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TYPE D P. 3 OF 4

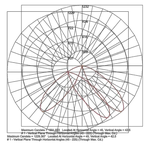
selux

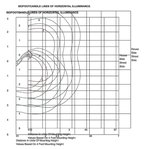
Inula Bollard LED

Photometry

4QS / 27W LED / 5000K CCT

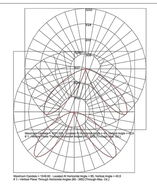
Catalog #: IBL-X-4QS-50-XX-120-DS
Report #: 197027-50
Maximum candela of 1232 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1158 Delivered Lumens
82 Lumens per Watt
80-U0-G0

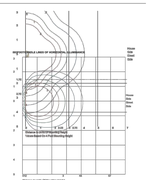




4QD / 27W LED / 5000K CCT

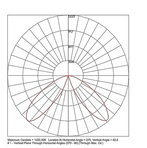
Catalog #: IBL-X-4QD-50-XX-120-DS
Report #: 197039-50
Maximum candela of 1232 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1156 Delivered Lumens
81 Lumens per Watt
81-U0-G0

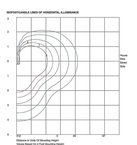




3Q / 20W LED / 5000K CCT

Catalog #: IBL-X-3Q-50-XX-120-DS
Report #: 197021-50
Maximum candela of 1223 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1689 Delivered Lumens
82 Lumens per Watt
81-U0-G0





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TYPE D P. 4 OF 4

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 51498
HALLEH LANDON
Date Signed 6/8/20
ARIZONA U.S.A.
EXPIRES 9-30-2022

14111- 5-1-20

DAVIS

WAYPOINT 5- Mesa, Arizona

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WSR LED
Architectural Wall Sconce

Inverted available with WLU option only.

Specifications
Luminaire

Height: 7-1/4" (18.4 cm)
Width: 18" (45.7 cm)
Depth: 9" (22.8 cm)
Weight: 17 lbs (7.7 kg)

Optional Back Box (BBW)

Height: 4" (10.2 cm)
Width: 5-1/2" (14.0 cm)
Depth: 1-1/2" (3.8 cm)

For 3/4" NPT side-entry conduit

Catalog Number
Notes
Type

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

Introduction
Classic Architectural Wall Sconce with the LED technology. Long-life, maintenance-free product with typical energy savings of 80% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity. The WSR LED is ideal for replacing existing 50 – 250W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Ordering Information

EXAMPLE: WSR LED P2 40K SR3 MVOLT DDBTXD

WSR LED Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish (required)
WSR LED	P1 12W P2 20W P3 29W P4 40W	30K 3000K 40K 4000K 50K 5000K	SR2 Type II SR3 Type III SR4 Type IV	MVOLT[1] 120 208 240 277 347 480	**Shipped included** (blank) Surface mount **Shipped separately**[2] BBW Surface-mounted back box	**Shipped included** PE Photoelectric cell, button type[3,5] SF Single fuse (120, 277, 347V)[4] DF Double fuse (208, 240, 480V)[4] DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) E20WC Emergency battery backup, (10W, -20°C), Certified in CA Title 20 MAEDBS[6] E10WH Emergency battery backup, (10W, 5°C), Certified in CA Title 20 MAEDBS[6] WLU Wet location door for up orientation[8] PIR Motion/ambient light sensor[7] DS Dual switching[9] SPD Separate Surge Protection[9] **Shipped separately** VG Vandal guard WG Wire guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

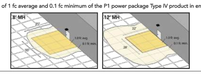
Emergency Battery Operation
The emergency battery backup (E20WC & E10WH options) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All E20WC and E10WH configurations include an independent secondary driver with an integral relay to immediately detect AC power loss.

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided minimum ambient temperatures are maintained and fixtures are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package Type IV product in emergency mode.

WSR P1 LED 40K SR4 MVOLT E20WC
10' x 10' Grillbrea
8' and 12' Mounting Height



NOTES
1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2 Not available with 480V option.
3 JT PE requires specified voltage.
4 Single fuse (SF) requires 120V, 277V or 347V options. Double fuse (DF) requires 208V, 240V or 480V options.
5 Not available with 347V or 480V. Not available with WLU.
6 WLU not available with PIR, E20WC or E10WH.
7 See PIR Table for default settings.
8 Not available with PIR & PIRHN options. Provides 50/50 luminaire operation via two independent drivers and light engines on two separate circuits. Not available with E20WC, E10WH, WLU, SF, or DF. When ordered with photocell (PE) or motion sensor (PIR), only the primary power source leads will be controlled.
9 See electrical section on page 2 for more details.

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.

Performance Package	System Watts (120V)	Distribution	30K (3000K, 70CRI)		40K (4000K, 70CRI)		50K (5000K, 70CRI)	
			Lumens	BUG	Lumens	BUG	Lumens	BUG
P1	20W	SR2	2,111	1B	2,253	1B	2,305	1B
		SR3	2,104	1B	2,244	1B	2,298	1B
		SR4	2,053	1B	2,189	1B	2,242	1B
P2	29W	SR2	2,943	1B	3,139	1B	3,214	1B
		SR3	2,934	1B	3,129	1B	3,204	1B
		SR4	2,863	1B	3,053	1B	3,126	1B
P3	40W	SR2	4,160	1B	4,799	1B	4,913	1B
		SR3	4,486	1B	4,784	1B	4,898	1B
		SR4	4,377	1B	4,667	1B	4,779	1B
P4	61W	SR2	6,159	1B	6,567	1B	6,724	1B
		SR3	6,139	1B	6,547	1B	6,703	1B
		SR4	5,991	1B	6,388	1B	6,541	1B

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		Normalized Lumens Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the **MRW LED P4** 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.

Operating Hours	0	25000	50000	100000	L90
Lumen Maintenance Factor	1	0.96	0.95	0.92	>60000

Electrical Load

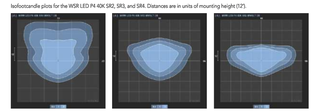
Power Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	20W	0.17	0.10	0.09	0.08	0.06	0.05
P2	29W	0.26	0.15	0.13	0.12	0.09	0.07
P3	40W	0.37	0.21	0.18	0.16	0.13	0.09
P4	61W	0.59	0.33	0.30	0.25	0.19	0.14

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

*PIR USES SF00 7

Photometric Diagrams
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WSR LED homepage.

Isofootcandle plots for the WSR LED P4 40K SR2, SR3, and SR4. Distances are in units of mounting height (12').



FEATURES & SPECIFICATIONS

INTENDED USE
The classic architectural shape of the WSR LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION
The 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 IP65 rating for the luminaire.

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, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WSR LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEEDB and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine(s) consist of 8 high-efficiacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L73). Class 2 electronic driver has a power factor >90%, THD <20%, and a minimum 6 kV surge protection. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up" orientation. Rated for -30°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.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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

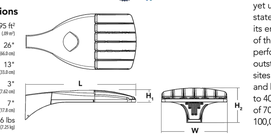
D-Series Size 0
LED Area Luminaire

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 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications
EPA: 0.95 ft² (.09 m²)
Length: 26" (66.0 cm)
Width: 13" (33.0 cm)
Height$_L$: 3" (7.62 cm)
Height$_T$: 7" (17.8 cm)
Weight (max): 16 lbs (7.25 kg)



A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

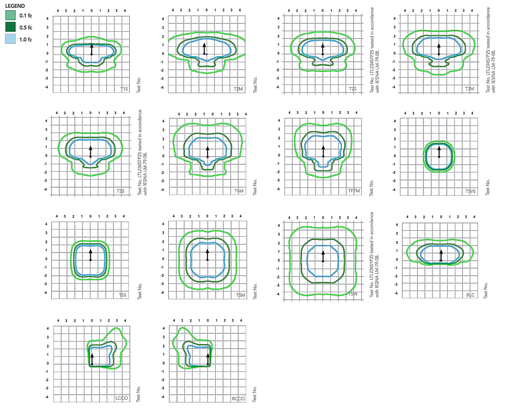
DSX0 LED Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P4 P7 P2 P5 P3 P6 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short[7] T5S Type V short[7] T5M Type V medium[7] T5W Type V wide[7] BLC Backlight control[5] LCCO Left corner cutoff[5] RCCO Right corner cutoff[5]	MVOLT[4,5] 120[5] 208[5] 240[5] 277[5] 347[5,6] 480[5,6]	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket[2] SPUMBA Square pole universal mounting adaptor[2] RPUMBA Round pole universal mounting adaptor[2] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[2]

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled[7,8] PIRHN Network, high/low motion/ambient sensor[7] PER NEMA twist-lock receptacle only (control ordered separately)[7,9] PER5 Five-pin receptacle only (control ordered separately)[7,9,11] PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separately)[7,9,11] DMG 0-10V dimming extend out back of housing for external control (control ordered separately)[9] PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[7,10] PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[7,10] PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[7,10] PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[7,10] FAO Field adjustable output[12]	**Shipped installed** HS House-side shield[13] SF Single fuse (120, 277, 347V)[5] DF Double fuse (208, 240, 480V)[5] L90 Left rotated optics[1] R90 Right rotated optics[1] DDL Diffused drop lens[14] **Shipped separately** BS Bird spikes[14] EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Photometric Diagrams
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

LEGEND
0.1 fc
0.5 fc
1.0 fc

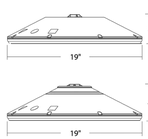


VCPG LED
Parking Garage

Catalog Number
Notes
Type

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

Specifications
Diameter: 19"
Height: 3.75" (4.85" with Up Light)
Weight (max, with no options): 18 lbs



Introduction
The all new VCPG LED (Visually Comfortable Parking Garage) luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED delivers up to 87% in energy savings when replacing 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED luminaire provides significant maintenance savings over traditional luminaires.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD

VCPG LED Series	LED Light Engines	Package	Color Temperature	Color Rendering Index	Distribution	Voltage	Mounting	Options	Finish (required)
VCPG LED	**V4**[1] 4 Light Engines **V8**[1] 8 Light Engines	P1[1] P2[1] P3[1] P4[1] P5[1] P6[1] P7[1]	30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	70CRI 80CRI	T5M Type V, medium T5R[2] Type V, rectangular T5W Type V, wide T5E Type V entry throw lane LARE[3]	MVOLT 347 480 **For ordering with fuse** 120 208 240 277 347 480	**Shipped included** PM Pendant mount standard (24-inch length supply leads) SRM Surface mount (24-inch length supply leads) ARM Arm mount (use RSIWBA accessory to mount to a wall) **Shipped separately** YK Yoke/trunnion mount[1]	DDNXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black

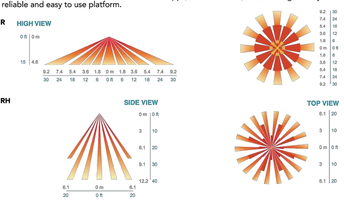
Options		
Shipped installed UPL1 Up-Light: 500 lumens UPL2 Up-Light: 700 lumens EBWC Emergency battery backup, Certified in CA Title 20 MAEDBS (8W, -20°C min)[4,5,6] E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)[4,5,6] HA High ambient (50°C, only P1-P4) SF Single fuse (120V, 277V, 347V) DF Double fuse (208V, 240V, 480V) SPD10KV 10KV Surge Pack LD536 36in (3ft) lead length LD572 72in (6ft) lead length LD5108 108in (9ft) lead length DMG External 0-10V leads (no controls)[7] **Shipped Separately** WG Wire Guard RDS Rain Drain Shield HS House Side Shield	**Standalone Sensors/Controls[1]** PIR Motion/ambient sensor for 8-15' mounting heights PIRH Motion/ambient sensor for 15-30' mounting heights PIR1FC3V Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output PIRH1FC3V Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output PIR3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 8-15' mounting heights, pre programmed to 3fc and 35% light output[2] PIRH3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 15-30' mounting heights, pre programmed to 3fc and 35% light output[2] **Networked Sensors/Controls[1]** NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights NLTAIR2 PIRH nLIGHT AIR Wireless enabled motion/ambient sensor for 15-30' mounting heights NLTAIR2 PIRH24 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights[2] NLTAIR2 PIRH924 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights[2] XAD Xfront™ Wireless enabled[8] XAD924 Xfront™ Wireless enabled, UL 924 Listed for emergency circuit[2,10] XAD PIR Xfront™ Wireless enabled motion/ambient sensor for 8-15' mounting heights XAD PIRH Xfront™ Wireless enabled motion/ambient sensor for 15-30' mounting heights XAD924 PIR Xfront™ Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights[2] XAD924 PIRH Xfront™ Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights[2]	DNHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black

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

Control/Sensor Options

Motion/Ambient Sensor (PIR_, PIRH)
Motion/Ambeint sensor (Sensor Switch MSOD, Xpoint MSOD) is integrated into the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)
nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.



Motion/Ambient Sensor Default Settings

Option	Dim Level	High Level (when happens)	Photocell Operation	Hold Time (Sec)	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V or PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 3fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec

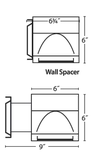
Sequence of Operations for UL924 Listed Controls/Sensors (PIR3FC3V924, PIRH3FC3V924, XAD924, NLTAIR2 PIR924, NLTAIR2 PIRH924)
The UL924 listed control/sensor ("device") is designed to provide full light output for 90 minutes following power loss ("Egress Mode"), ignoring both manual and automatic dimming/occupancy/daylight control signals during this time. The sequence of operations is as follows:
- Normal condition: device can dim and turn off the luminaire as normal, in response to automatic and manual control.
- Utility power fails, and luminaire loses power.
- Backup power source activates, transfer switch moves the emergency circuit powering the luminaire onto the backup source, and luminaire regains power.
- The device detects this power interruption, if it is >30ms (for PIR3FC3V924, PIRH3FC3V924, XAD924) or >200ms (for NLTAIR2 PIR924, NLTAIR2 PIRH924).
- The device ignores all dimming commands and controls the driver to full light output for 90 minutes.
- The device resumes normal dimming controls after 90 minutes.

These UL924 listed controls/sensors are not intended for use with Non-interruptible central emergency power systems. The power interruption, when transferring from normal utility power to emergency backup power, is required for the controller to activate its Egress Mode and provide full light output.

P61 | Wet Listed, Surface & Wall

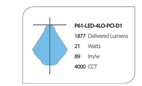
PRUDENTIAL LTG
P61-AT-L-SW-W-T-LED-40K

Type:
Job:



Multi-purpose outdoor lighting.

An IP65 rated aluminum 6" x 6" profile wet location luminaire ideal for exterior wall mounts, parking structures, commercial roll-up door applications. It features a one-piece extruded gasketed door frame.



UPTO 89 LM/W

	LO	MIO	SO	HO
lm/ft	470	600	850	1020
w/ft	5	7	10	12

CLICK HERE

Lumen output may vary +/- 5% 4000K Lumen Multiplier: 3500K - 2% PE, 3000K +4%, 2700K-6% -10% LLF for 95 CRI (4K, 3500K and 3K)
See LED Details PDF for more info

5 Year LED Warranty | Made in the USA

SERIES	LED COLOR	OUTPUT	OPTICAL LENS	LENS FINISH	DISTRIB. PATTERN	VOLTAGE	MOUNTING	DRIVERS	OPTIONS
P61	LED27 2700K LED3 3000K LED35 3500K LED4 4000K LED3-90 90CRI LED35-90 90CRI LED4-90 90CRI	LO Low MO Medium SO Standard HO High PROG Programmable Light Output (specify desired lm/ft or w/ft)	2" 3" 4" R (Rose Length in 1" increments)	PCL Clear Polycarbonate Lens WA White Acrylic (D1 Only)	TMW Textured Matte White YGW Gloss White (Standard) Y Premium Color CC Custom Color	D1 Direct D4W* Asymmetric to Wall D4R* Asymmetric to Room * PCL Lens Only	347 UNV (120-277)	SUR Surface Mount to Ceiling (Not Vertical Wall Mounting) WB Wall Bracket 3" WS Wall Spacer ¾"	ND Non-Dimming DM10 0-10v, 10% Dimming (Standard) DM01 0-10v, 1% Dimming STEP Step Dimming, 100-50-Off, Osram NOTE Lumens and watts per foot may differ for STEP drivers, consult factory LDE5 Lutron S-Series EcoSystem LED LDE1 Lutron Hi-lume 1% EcoSystem LED (Soft fade on, fade-to-black dimming) LTE Lutron Hi-lume 1% 2-Wire LED Driver (120V forward phase only) ECO 1% 0-10v, EldoLED (Logarithmic dimming std) ECDA 1% DALI, EldoLED (Logarithmic dimming std) SOLO 0.1% 0-10v, EldoLED (Dim-to-dark, Logarithmic dimming std) SODA 0.1% DALI, EldoLED (Dim-to-dark, Logarithmic dimming std	EML Emergency Battery, Low (850 delivered lumens) EMH Emergency Battery, High (1175 delivered lumens) PRUBIN Meticulous Binning and Labeling Every LED Board within a 2-Step MacAdams Ellipse

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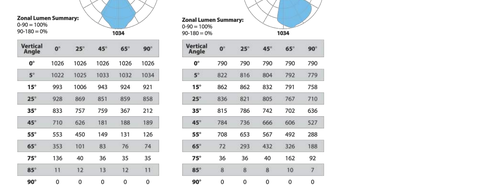

Vertical Angle	0°	25°	45°	65°	90°
0°	1026	1026	1026	1026	1026
5°	1022	1025	1033	1032	1034
15°	993	1006	943	924	921
25°	928	869	851	859	858
35°	833	757	759	367	212
45°	710	626	181	188	189
55°	553	450	149	131	126
65°	353	101	83	76	74
75°	136	40	36	35	35
85°	11	12	13	12	11
90°	0	0	0	0	0

Vertical Angle	0°	25°	45°	65°	90°
0°	790	790	790	790	790
5°	822	816	804	792	779
15°	862	862	832	791	758
25°	836	821	805	767	710
35°	815	786	742	702	636
45°	784	736	666	606	527
55°	708	653	567	492	288
65°	72	293	432	326	188
75°	36	36	40	162	92
85°	8	8	8	10	7
90°	0	0	0	0	0

Luminance Chart:

Angle	0°	45°	90°
45°	8543	2178	2274
55°	8203	2210	1869
65°	7107	1671	1490
75°	4471	1183	1151
85°	1074	1269	1074

LUMEN MAINTENANCE
Designed to last with cool running mid-power LEDs projected to maintain 90% (L90) of their initial output for 100,000 hours (at HO), and L70 exceeding 150,000 hours.

LED SYSTEM LED modules and drivers are field replaceable.

PROG (OPTIONAL) Programmable light output. Specify desired lumens or watts per linear foot. Min: 2.5 w/ft, consult factory for requests above 12 w/ft.

BINNING Standard binning (all Prudential LED boards) includes testing at the chip level and board integration to provide consisten color temperature within a 3-step MacAdam ellipse, with +/- 5% lumen output range and +/- .004 Duv.

PRUBIN™ (OPTIONAL) Prudential Ltg's exclusive 'Job binning' method that ensures color temperature consistency across all luminaires on a project. Meticulously testing and labeling **EVERY LED BOARD** to +/- 25 lumens, +/- 50k CCT and +/- .004 Duv — while also separating positive from negative — allows us to match color, hue and intensity throughout a project and provides a consistent color temperature within a 2-step MacAdam ellipse.

LABELS IP 65 Rated. U.L. labeled "Suitable for wet locations" and "Suitable for Mounting within 4-feet of the ground" and L.B.E.W. manufactured.

ELECTRICAL Must specify LED dimming controls. LED fixtures have constant current driver(s) with less than 20% THD when loaded to a minimum of 60%. Drivers sink a maximum of 6mA per driver. DM10 LED drivers are 0-10V dimmable and are compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers. Max driver size 1.7" w x 1.2" h.

CONSTRUCTION
Housing Die-formed aluminum >250% PC recycled, 100% recyclable.
Lens Clear or white acrylic, 100% recyclable.
MOUNTING Surface mounted to walls or ceilings.
WARRANTY Single-source, 5 year limited warranty covers standard components and construction.

Prudential Ltg. reserves the right to change design specifications or materials without notice. Please visit prulite.com for most current data.
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Registered Professional Engineer (Electrical)
CERTIFICATE NO. 51498
HALLEH LANDON
Date Signed 6/9/20
ARIZONA U.S.A.
EXPIRES 9-30-2022

WAYPOINT 5- Mesa, Arizona

14111- 5-1-20

DAVIS

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TYPE F

WSR LED

Architectural Wall Sconce

NIGHTTIME FRIENDLY

Inverted available with WLU option only.

Catalog Number

Notes

Type

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

Introduction

Classic Architectural Wall Sconce with the LED technology. Long-life, maintenance-free product with typical energy savings of 80% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity. The WSR LED is ideal for replacing existing 50 – 250W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Specifications

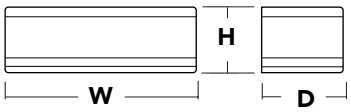
Luminaire

Height: 7-1/4″ *(18.4 cm)*

Width: 18″ *(45.7 cm)*

Depth: 9″ *(22.8 cm)*

Weight: 17 lbs *(7.7 kg)*

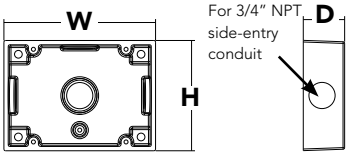


Optional Back Box (BBW)

Height: 4″ *(10.2 cm)*

Width: 5-1/2″ *(14.0 cm)*

Depth: 1-1/2″ *(3.8 cm)*



Ordering Information

EXAMPLE: WSR LED P2 40K SR3 MVOLT DDBTXD

WSR LED

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish *(required)*
WSR LED	P1 P2 P3 P4	30K 40K 50K	SR2 Type II SR3 Type III SR4 Type IV	MVOLT [1] 120 208 240 277 347 480	**Shipped included** (blank) Surface mount **Shipped separately** [2] BBW Surface-mounted back box	**Shipped installed** PE Photoelectric cell, button type [2,3] SF Single fuse (120, 277, 347V) [4] DF Double fuse (208, 240, 480V) [4] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) E20WC Emergency battery backup, (18W, -20°C), Certified in CA Title 20 MAEDBS [5] E10WH Emergency battery backup, (10W, 5°C), Certified in CA Title 20 MAEDBS [5] WLU Wet location door for up orientation [6] PIR Motion/ambient light sensor [7] DS Dual switching [8] SPD Separate Surge Protection [9] **Shipped separately** VG Vandal guard WG Wire guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Emergency Battery Operation

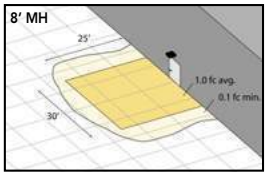
The emergency battery backup (E20WC & E10WH options) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

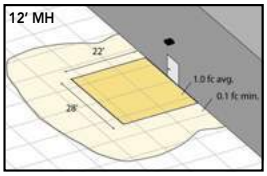
All E20WC and E10WH configurations include an independent secondary driver with an integral relay to immediately detect AC power loss.

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package Type IV product in emergency mode.

WSR P1 LED 40K SR4 MVOLT E20WC
10′ x 10′ Gridlines
8′ and 12′ Mounting Height





NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2. Not available with 480V option.
3. 3 PE requires specified voltage.
4. Single fuse (SF) requires 120V, 277V or 347V options. Double fuse (DF) requires 208V, 240V or 480V options,
5. Not available with 347V or 480V. Not available with WLU.
6. WLU not available with PIR, E20WC or E10WH.
7. See PIR Table for default settings.
8. Only available with P3 & P4 packages. Provides 50/50 luminaire operation via two independent drivers and light engines on two separate circuits. Not available with E20WC, E10WH, WLU, SF, or DF. When ordered with photocell (PE) or motion sensor (PIR), only the primary power source leads will be controlled.
9. See electrical section on page 2 for more details.

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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.

Performance Package	System Watts (MVOLT[1])	Dist. Type	30K (3000K, 70CRI)		40K (4000K, 70CRI)		50K (5000K, 70CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	20W	SR2	2,111	108	2,251	115	2,305	118
		SR3	2,104	108	2,244	115	2,298	117
		SR4	2,053	105	2,189	112	2,242	115
P2	29W	SR2	2,943	101	3,139	108	3,214	110
		SR3	2,934	101	3,129	107	3,204	110
		SR4	2,863	98	3,053	105	3,126	107
P3	40W	SR2	4,500	114	4,799	122	4,913	125
		SR3	4,486	114	4,784	122	4,898	125
		SR4	4,377	111	4,667	119	4,779	122
P4	61W	SR2	6,159	102	6,567	108	6,724	111
		SR3	6,139	101	6,547	108	6,703	110
		SR4	5,991	99	6,388	105	6,541	108

Motion/Ambient Sensor Default Settings						
	Dimmed State	High Level (when triggered)	Phototcell Operation	Ramp-up Time	Dwell Time	Ramp-down Time
*PIR	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
*PIR USES SFOD 7						

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		Normalized Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **MRW LED P4** 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.

Operating Hours	0	25000	50000	100000	L90
Lumen Maintenance Factor	1	0.96	0.95	0.92	>60000

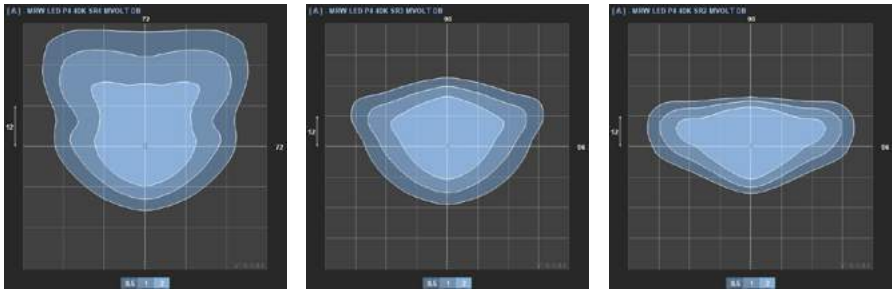
Electrical Load

Power Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	20W	0.17	0.10	0.09	0.08	0.06	0.05
P2	29W	0.26	0.15	0.13	0.12	0.09	0.07
P3	40W	0.37	0.21	0.18	0.16	0.13	0.09
P4	61W	0.59	0.33	0.18	0.25	0.19	0.14

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WSR LED homepage.

Isofootcandle plots for the WSR LED P4 40K SR2, SR3, and SR4. Distances are in units of mounting height (12').



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WSR LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The 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 IP65 rating for the luminaire.

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, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WSR 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(s) consist of 8 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor >90%, THD <20%. and a minimum 6 KV surge protection. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up"orientation. Rated for -30°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.

WARRANTY

5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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

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TYPE D

Date: _____ Customer: _____

Project: _____

Type: _____ Qty: _____

selux

Inula Bollard LED

Order Code: IBL - ____ - ____ - ____ - ____ - ____ - ____ - ____ - ____

IBL	Series	IBL Inula Bollard LED				
____	Height	1.5 1.5 ft. (consult factory)	2 2 ft. (consult factory)	2.5 2.5 ft	3 3 ft	3.5 3.5 ft	4 4 ft
____	Light Engine	1Q[1] 7.6w/577 lm	2Q90 14.1w/1156lm	2Q180 14.1w/1156 lm	3Q 20.5w/1689 lm	4QS 27.2w/2246 lm	4QD 27.2w/2246 lm
____	CCT	AM[2, 15] Amber	30[2] 3000K	40 4000K	50 5000K		
____	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color
____	Voltage	UNV 120-277V	120 120V	208 208V	240 240V	277 240V	347[3,16] 347V	480[3,16] 480V
____	Options	DM Dimming (0-10V)	HL30[4,7,10, 12] Hi-Lo Switching 100-30%	REC[5,6] GFCI Receptacle w/ weather-proof cover	REC2[5,6] GFCI Receptacle w/ padlockable in-use cover	EM[8,9,13] Emergency Battery Pack T0 - 20C	PC [11] Photocell
____		LP[12, 14, 15] Lower Power Version Decreases Light Out-put by 60%	HP[12] High Power Version Increases Light Output by 100%	REC3 USB & Duplex Receptacle w/ weather-proof cover	REC4 USB & Duplex Receptacle w/ weatherproof padlockable in-use cover		

*Based on 5000K CCT, 120-277V

[1]Not available with EM

[2]IDA Approved

For other CCT please consult factory

*50 or 60 Hertz

[3] Requires step down transformer, 60 Hertz Only

[4]120-277V Only

[5]120V Only

[6]Not available in 2.5" height

[7]Not available at 208V.

[8]Not available with IQ

[9]120V or 277V only

[10]Not available with DM Option

[11]Not available at 480V

[12]Not available with EM option

[13]Not available with PC or LP option

[14]Not available with HL30 or HP options

[15]For 1Q, 2Qxx and 3Q please consult factory

[16] Not available with HL30

Product Modifications

Please list modification requirements for review by factory:

Approvals

Date:

NRTL WET 5 UNION MADE ASTM & PCI FINISH IK10 RoHS lighting facts

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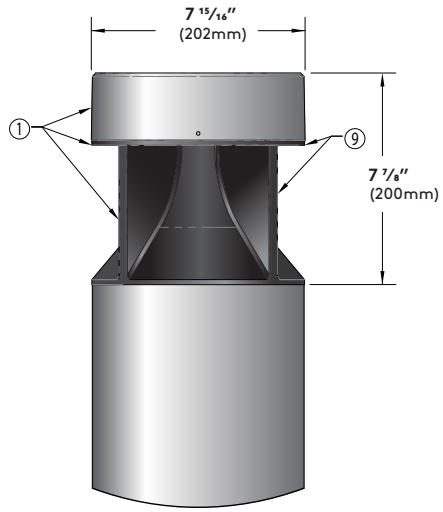
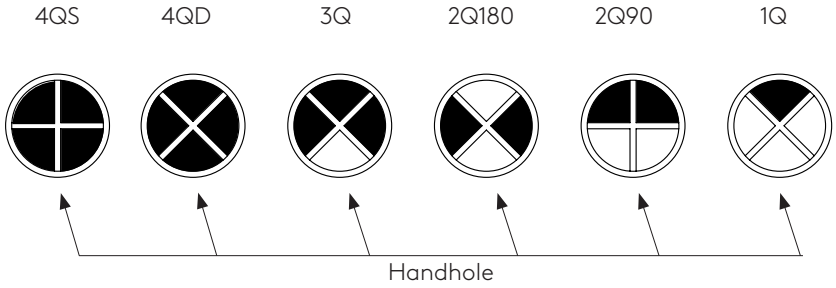
IBL



Net Weight (35lbs)

LED Light Engine Distribution Guide



Specifications

1. Fixture Housing - Die cast low-copper and low-iron aluminum fixture body provide corrosion resistance in marine environments.

2. Gasketing - (not shown) Continuous gaskets provide weather-proofing, dust, and insect control between castings.

3. LED Light Engine - (not shown) High efficiency LED light engine equipped with brand-name LEDs, available in 3000K, 4000K, 5000K CCT tolerance within a 3-step MacAdams ellipse, and Amber CCT. Suitable for max ambient temperatures up to 45°C.

4. Optics - (not shown) Proprietary vandal and UV resistant acrylic optic provides optimal light blending between quadrants.

5. Surge Protector - (not shown) Designed to protect luminaire from electrical surge (10kA).

6. Hi-Lo Switching Option - (not shown) Controlled switching between 100% and 30% power. See wiring diagrams for additional details.

7. Low Power Option - (not shown) 60% decrease in Lumen output in same physical package.

8. High Power Option - (not shown) 100% increase in Lumen output in same physical package.

9. Light Chamber - Castings around Light Engine are painted with special matte black light absorbing powder coat paint. Meets International Dark-Sky Association (IDA) requirements B0, U0, and G0 BUG ratings at 3000K CCT. Powers 2Q90, 2Q180, 3Q, or 4Q configurations (refer to lumen matrix on page 3).

10. Low-Temperature Emergency Battery Pack Option - (not shown) Provide 90 minutes of constant-power egress lighting when external power is lost. -20˚C to +55˚C ambient temperature operation.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty - Selux offers a 5 Year Limited Warranty to the original purchaser that the Inula Bollard LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Tested to INRTL Wet Location and IESNA LM-79-08 standards. LED tested to LM-80 standards.

Luminaire tested to IK10 standard, IDA Approved and Lighting Facts Certified.

Luminaire and LED tested at 25°C (77°F) ambient temperature.

LED LIFE - LED light engine provides a reported lumen maintenance of 93% at 36,000 hours. L70 calculated greater than 100,000 hours. NRTL Listed (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

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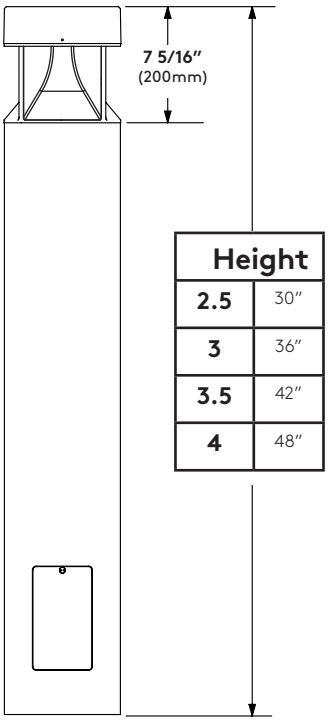
Lumen Matrix

ELECTRICAL SPECIFICATIONS at 120VAC-277VAC (at 347-480VAC)																	
Light Engine		**4QD/4QS**				**3Q**				**2Q180/2Q90**				**1Q**			
LED CCT		**3000K**	**4000K**	**5000K**	**AMBER**	**3000K**	**4000K**	**5000K**	**AMBER**	**3000K**	**4000K**	**5000K**	**AMBER**	**3000K**	**4000K**	**5000K**	**AMBER**
Standard Power	**Delivered Lumens (lm)**	2101		2246	464	1580		1689	349	1083		1156	239	540		577	119
	Wattage (W)	27.2 (29.6)			20.7 [22.6]	20.5 (22.3)			15.6 [17.0]	14.1 [15.4]			10.6 [11.6]	7.6 (8.3)			5.6 [6.2]
	Efficacy (lm/W)	77.2 (71.0)		82.6 (75.9)	22.4 [75.9]	77.1 [70.9]		82.4 (75.7)	22.4 [20.5]	76.8 (70.3)		82.0 (75.1)	22.5 [20.6]	71.1 (65.1)		75.9 (69.5)	21.3 [19.2]
High Power (HP) Option	**Delivered Lumens (lm)**	4202		4492	N/A	3160		3378	N/A	2166		2312	N/A	1080		1155	N/A
	Wattage (W)	54.4 [59.2]				41.0 [44.6]				28.2 [30				15.2 [16.6]			
	Efficacy (lm/W)	77.2 (67.8)		82.6 (75.9)		77.1 (70.9)		82.4 (75.7)		76.8(70.3)		82.0 (75.1)		71.1 (65.1)		75.9 (69.5)	
EM Option	**Delivered Lumens (lm)**	2501		2674	N/A	1881		2011	N/A	1289		1376	N/A				

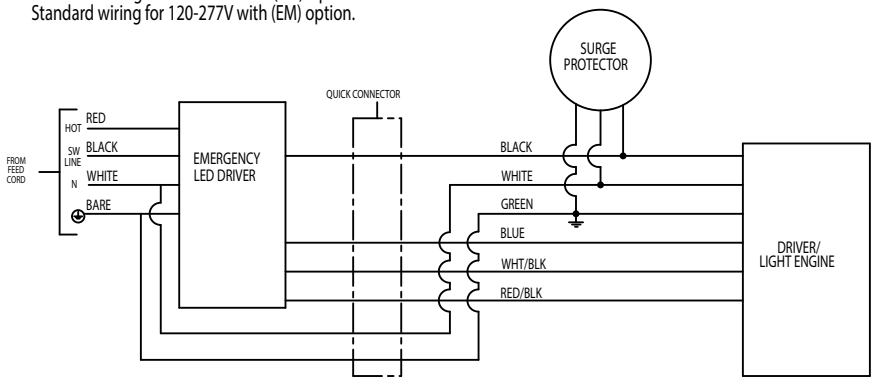
Profiles IBL-XX-4QD



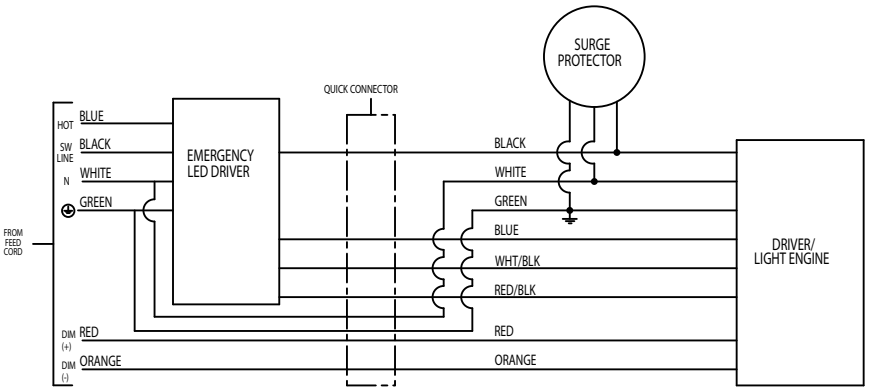
Height	
2.5	30"
3	36"
3.5	42"
4	48"

Wiring

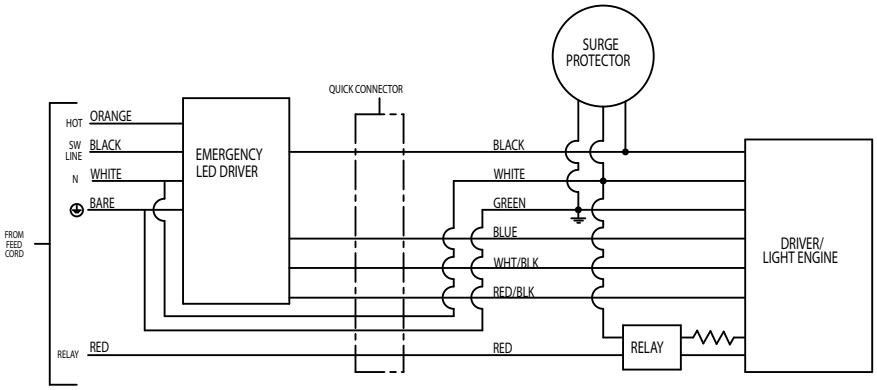
Standard Wiring for 120-277V With (EM) Option
Standard wiring for 120-277V with (EM) option.



0-10V Dimming Option (DM) Wiring for 120-277V With (EM) Option
100% light output at 10V, down to 1% light output at 0V.

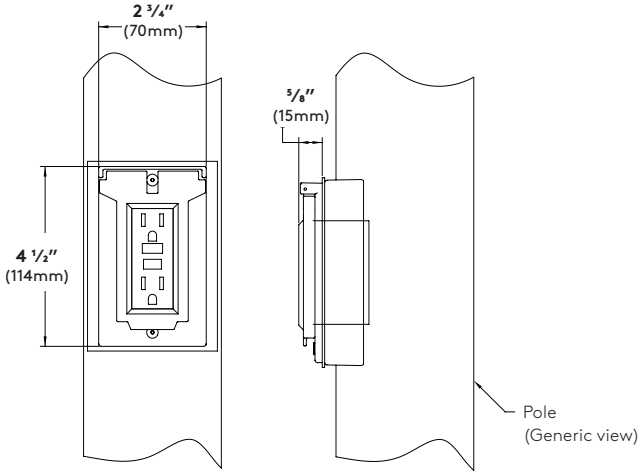


Hi-Lo Switching Option (HL30) Wiring With (EM) Option
120/240/277V. When red is energized, light output will be at "Lo" level.

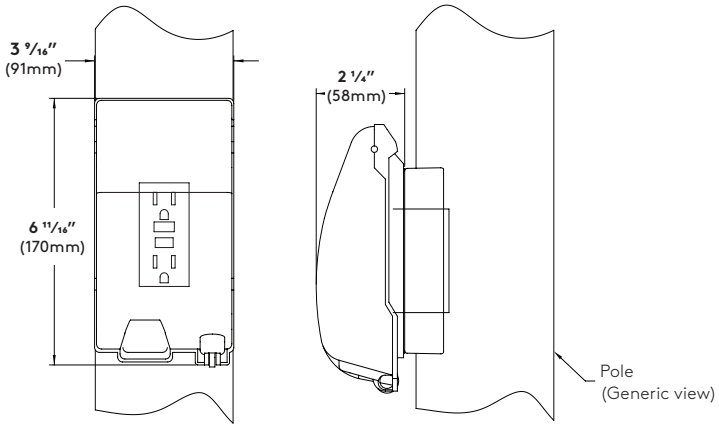


Optional Accessories

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weather-proof, self-closing, non-lockable cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel. For use with 120V applications only. For use with luminaires with other than 120V rating, please consult factory for wire segregation.



GFCI Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weather-proof, self-closing, padlockable in-use cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel. For use with 120V applications only. For use with luminaires with other than 120V rating, please consult factory for wire segregation.



USB & Duplex Receptacle (REC3) (not shown) - 120V 15A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5 Amp, 5 Volt USB outlets. With weather-proof, self-closing cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

Note: Must be used in conjunction with GFCI breaker by others

USB & Duplex Receptacle (REC4) (not shown)- 120V 15A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5 Amp, 5 Volt USB outlets. With weather-proof, self-closing padlockable in-use cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

Note: Must be used in conjunction with GFCI breaker by others

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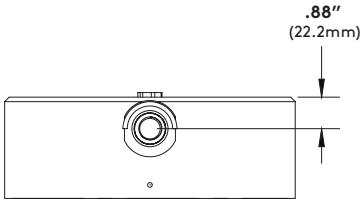
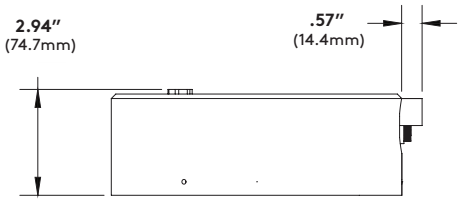
Photo Cell (PC) - Integrated in top cap for 360° of orientation adjustment in the field.





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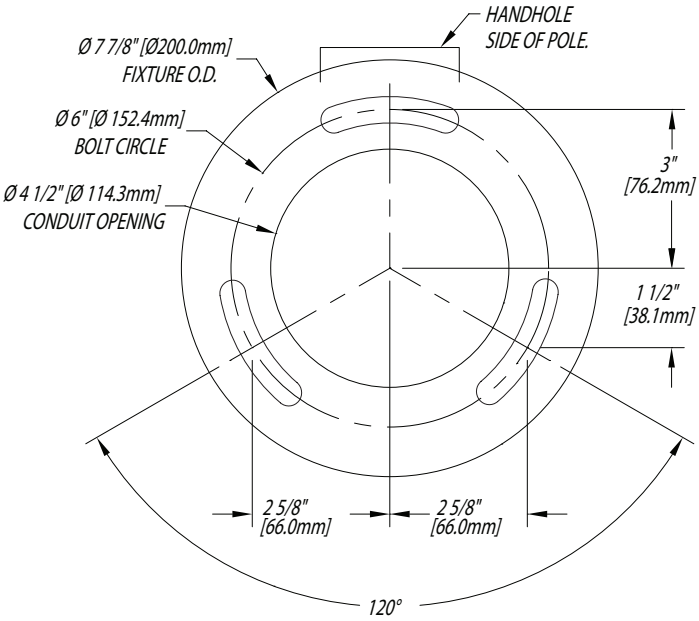
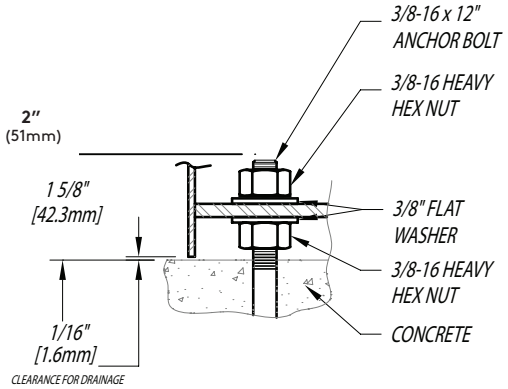
Mounting Information

NOTES:

1. BOLLARD ORIENTATION IS CRITICAL, ROD AND HAND HOLE LOCATIONS ARE CRITICAL.
2. LOCATE SINGLE BOLT AT HAND HOLE LOCATION.
3. ADEQUATE DRAINAGE MUST BE PROVIDED IN CONCRETE FOUNDATION.
4. CONDUIT SHOULD BE STUBBED UP ABOVE THE CONCRETE FOOTING.





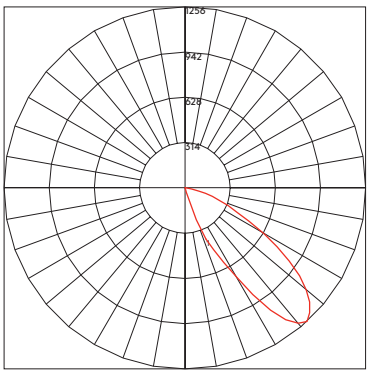
BOLT CIRCLE DETAIL (NOT TO SCALE)

USE CAUTION WHEN SETTING ANCHOR BOLTS. BOLTS MUST BE VERTICALLY STRAIGHT AND CENTERED ON DIMENSIONS SHOWN.

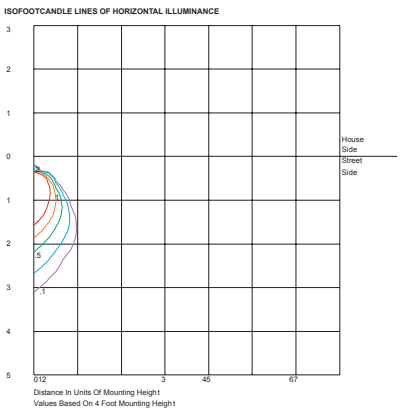
Photometry

1Q / 8W LED / 5000K CCT

Catalog #: IBL-X-1Q-50-XX-120-DS
Report #: 1197031-50
Maximum candela of 1256 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
577 Delivered Lumens
75 Lumens per Watt
B0-U0-G0



Maximum Candela = 1255.772 Located At Horizontal Angle = 315, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)



In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

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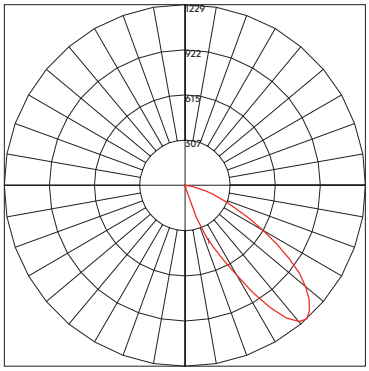
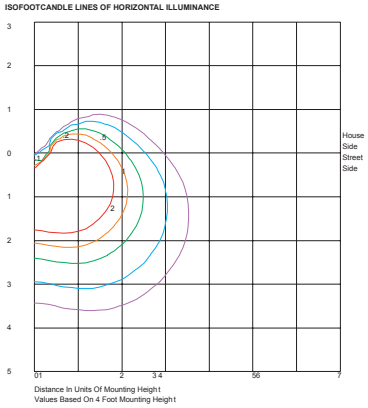
Photometry

2Q90 / 14W LED / 5000K CCT

Catalog #: IBL-X-2Q90-50-XX-120-DS
Report #: 1197029-50
Maximum candela of 1229 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1158 Delivered Lumens
82 Lumens per Watt
B0-U0-G0

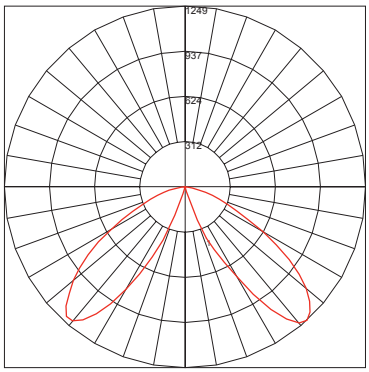


Maximum Candela = 1229.367 Located At Horizontal Angle = 45, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

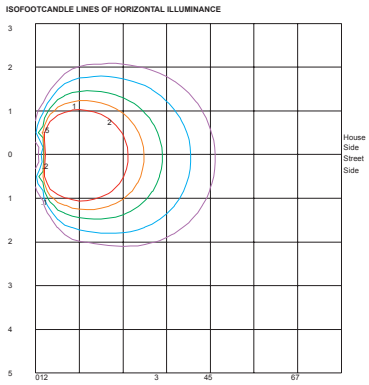


2Q180 / 14W LED / 5000K CCT

Catalog #: IBL-X-2Q180-50-XX-120-DS
Report #: 1197024-50
Maximum candela of 1249 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1156 Delivered Lumens
81 Lumens per Watt
B1-U0-G0

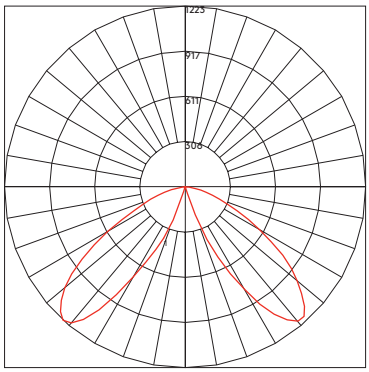


Maximum Candela = 1248.93 Located At Horizontal Angle = 85, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)

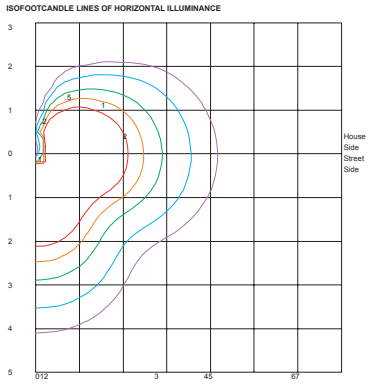


3Q / 20W LED / 5000K CCT

Catalog #: IBL-X-3Q-50-XX-120-DS
Report #: 1197021-50
Maximum candela of 1223 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
1689 Delivered Lumens
82 Lumens per Watt
B1-U0-G0



Maximum Candela = 1222.526 Located At Horizontal Angle = 270, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)



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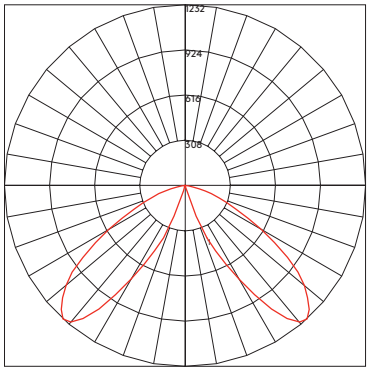
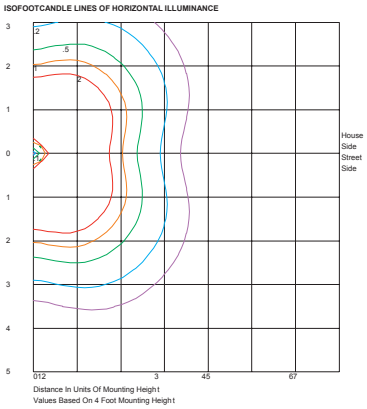
Photometry

4QS / 27W LED / 5000K CCT

Catalog #: IBL-X-4QS-50-XX-120-DS
Report #: 1197039-50
Maximum candela of 1232 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
2246 Delivered Lumens
83 Lumens per Watt
B1-U0-G0

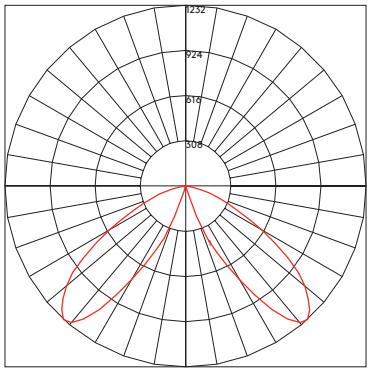


Maximum Candela = 1231.933 Located At Horizontal Angle = 45, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

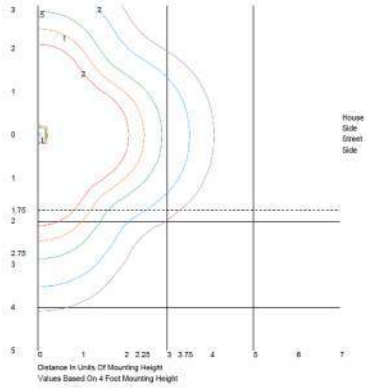


4QD / 27W LED / 5000K CCT

Catalog #: IBL-X-4QD-50-XX-120-DS
Report #: 1197039-50
Maximum candela of 1232 at 42.5° from vertical.
Mounting Height = 4' (1.22 m)
2246 Delivered Lumens
83 Lumens per Watt
B1-U0-G0



Maximum Candela = 1231.933 Located At Horizontal Angle = 45, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)



Submitted by R.C. Lurie		Catalog Number: CH2HM-3-250PSMH-F-MT-WHT / CHH-3-HSS Notes:	Type: **SA1**

CHALLENGER® II MEDIUM

LUMINAIRE ORDERING INFORMATION

VERIFY FINISH

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage	Luminaire Finish	Options
Horizontal Burn CH2HM	2 – Type II 3 – Type III FT – Forward Throw 5 – Type V	100 150 175 250 320 400	PSMH – Pulse-Start Metal Halide 175, 250, 320 Watt PSMHR – Pulse-Start Metal Halide Reduced Envelope 400 Watt CMH – Ceramic Metal Halide 150 Watt HPS – High Pressure Sodium 100, 150, 250, 400 Watt	F – Flat Clear Tempered Glass	480 MT – Multi Tap TT – Tri-Tap	BRZ – Bronze BLK – Black PLP – Platinum Plus WHT – White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	PCR - Photoelectric Control Receptacle[1] TB - Terminal Block LL - Less Lamp

MT – Multi Tap consists of 120V, 208V, 240V and 277V and is prepared for highest voltage. Alternate voltages will require field adjustment.

TT – Tri-Tap consists of 120V, 277V and 347V and is shipped standard for Canadian applications and is prepared for highest voltage. Alternate voltages will require field adjustment.

Consult Factory for International Voltages and Light Sources

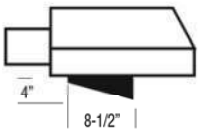
FOOTNOTES:

1- PCR factory installed and prewired to highest voltage. Alternate voltages will require field re-wiring. Photocell must be ordered separately. See Accessories.
2- Factory installed PCR option required.
3- Fusing must be located in the hand-hole of the pole - not in the fixture.
4- Black only. House side shield adds to the fixture EPA. Consult factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
PC120 – Photocell	122514[2]	DFK480 - Double Fusing	DFK480[3]
PC208-277 – Photocell for 208V, 240V or 277V	122515[2]	FK347 - Single Fusing	FK347[3]
PC347 – Photocell	159516[2]	CH2HM HSS – External House Side Shield	290383BLK[4]
PC480 – Photocell	1225180[2]	RPP2 - Round Pole Plate	162914CLR
FK120 - Single Fusing	FK120[3]	BKS-BO-WM-*-CLR Wall Mount Plate	123111CLR
FK277 - Single Fusing	FK277[3]		
DFK208, 240 - Double Fusing	DFK208, 240[3]		

HOUSE SIDE SHIELD



(290383BLK)

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LSI INDUSTRIES INC.

Submitted by R.C. Lurie		Catalog Number: CH2HM-5-250PSMH-F-MT-WHT Notes:	Type: **SA4**

CHALLENGER® II MEDIUM (Various reflectors are protected by U.S. Patent No. 6,464,378.)

HOUSING - Radiused, rectangular-shaped, aluminum housing with stainless steel or electro-zinc plated steel mounting hardware.

DOOR FRAME - Aluminum with two stainless steel captive fasteners for easy access into the fixture. A one-piece extruded EPDM gasket seals the door frame against the housing.

LENS/GASKET - Available with a tempered flat glass lens. The lens is sealed to the door frame with EPDM gasketing.

SOCKETS - Porcelain mogul-base sockets. All sockets are factory prewired. All sockets are pulse-rated.

LIGHT SOURCES - Pulse-Start Metal Halide, Pulse-Start Metal Halide Reduced Envelope, Ceramic Metal Halide or High Pressure Sodium. Clear lamp is supplied as standard.

BALLASTS - High-power factor ballast. Pulse-Start Metal Halide, Metal Halide, and High Pressure Sodium fixtures feature a CWA type ballast. All ballasts are designed for -20° F operation.

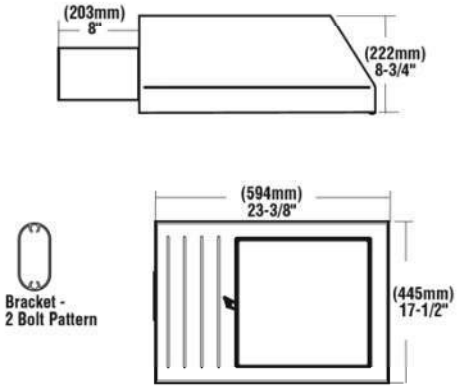
REFLECTORS/DISTRIBUTION PATTERNS - Available with reflector distribution patterns of Type V (5), Forward Throw (FT), Type III (3), and Type II (2). Photometric data is tested in accordance with IESNA guidelines.

BRACKETS - Use with 5" traditional drilling pattern. An extruded radius 8" arm is shipped standard and compatible with all fixture mounting configurations. The fixture may also be mounted to round poles using the round pole plate adaptor accessory (RPP2), which must be ordered separately.

FINISHES - Each fixture is finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, white, satin verde green, metallic silver, and graphite.

PHOTOMETRICS - Please visit our web site at **www.lsi-industries.com** for detailed photometric data.

DIMENSIONS



c UL us LISTED wet location

ARRA Funding Compliant

LUMINAIRE EPA CHART - Challenger II Medium	
Single	1.4
D180°	2.9
D90°	2.5
T90°	4.0
TN120°	4.1
Q90°	5.1

Note: House Side Shield adds to fixture EPA. Consult factory.

SHIPPING WEIGHTS - Challenger II Medium

Catalog Number	Est. Weight (kg/lbs.)	Length (mm/in.)	Width (mm/in.)	Height (mm/in.)
CH2HM	19 / 42	699 / 27.5	559 / 22	432 / 17

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LSI INDUSTRIES INC.

TYPES SG & SH

VCPG LED
Parking Garage

Catalog Number

Notes

Type

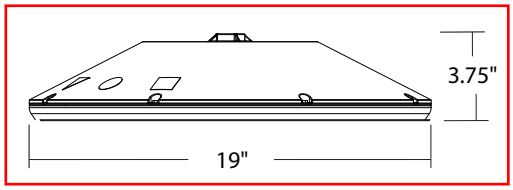
Hit the Tab key or mouse over the page to see all interactive elements.

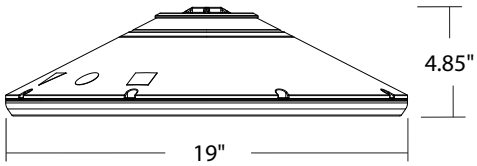
Specifications

Diameter: 19"

Height: 3.75" (4.85" with Up-Light)

Weight (max, with no options): 18 lbs





A+ Capable options indicated by this color background.

Introduction

The all new VCPG LED (Visually Comfortable Parking Garage) luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED delivers up to 87% in energy savings when replacing 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED luminaire provides significant maintenance savings over traditional luminaires.

Ordering Information

EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD

VCPG LED

Series	LED Light Engines	Package	Color temperature	Color Rendering Index	Distribution	Voltage		Mounting
VCPG LED	V4[1] 4 Light Engines V8[1] 8 Light Engines	P1[1] P2[1] P3[1] P4[1] P5[1] P6[1] P7[1]	30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	70CRI 80CRI	T5M Type V, medium T5R[2] Type V, rectangular T5W Type V, wide T5E Type V entry LANE[2] Drive lane	MVOLT 347 480	For ordering with fuse 120 208 240 277 347 480	**Shipped included** PM Pendant mount standard (24-inch length supply leads) SRM Surface mount (24-inch length supply leads) ARM Arm mount (use RSXWBA accessory to mount to a wall) **Shipped separately** YK Yoke/trunnion mount[3]

Options

Shipped installed

UPL1	Up-Light: 500 lumens
UPL2	Up-Light: 700 lumens
E8WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (8W, -20°C min)[4,5,6]
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)[4,5,6]
HA	High ambient (50°C, only P1-P4)
SF	Single fuse (120V, 277V, 347V)
DF	Double fuse (208V, 240V, 480V)
SPD10KV	10KV Surge Pack
LDS36	36in (3ft) lead length
LDS72	72in (6ft) lead length
LDS108	108in (9ft) lead length
DMG	External 0-10V leads (no controls)[7]

Shipped Separately

WG	Wire Guard
BDS	Bird Shroud
HS	House Side Shield

Standalone Sensors/Controls[2]

PIR	Motion/ambient sensor for 8-15' mounting heights
PIRH	Motion/ambient sensor for 15-30' mounting heights
PIR3FC3V	Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output
PIRH3FC3V	Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output
PIR3FC3V924	UL924 Listed motion/ambient sensor for emergency circuit for 8-15' mounting heights, pre programmed to 3fc and 35% light output[8]
PIRH3FC3V924	UL924 Listed motion/ambient sensor for emergency circuit for 15-30' mounting heights, pre programmed to 3fc and 35% light output[8]

Networked Sensors/Controls[2]

NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights
NLTAIR2 PIR924	nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights[9]
NLTAIR2 PIRH924	nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights[9]
XAD	XPoint™ Wireless enabled[10]
XAD924	XPoint™ Wireless enabled, UL 924 Listed for emergency circuit[8,10]
XAD PIR	XPoint™ Wireless enabled motion/ambient sensor for 8-15' mounting heights
XAD PIRH	XPoint™ Wireless enabled motion/ambient sensor for 15-30' mounting heights
XAD924 PIR	XPoint™ Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights[8]
XAD924 PIRH	XPoint™ Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights[8]

Finish *(required)*

DWHXD	White
DNAXD	Natural aluminum
DDBXD	Dark bronze
DBLXD	Black

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Ordering Information Cont.

Accessories

Ordered and shipped separately.

VCPGBDS DWHXD U	Bird shroud for PM (specify finish)
VCPGBDS YK DWHXD U	Bird shroud for YK (specify finish)
VCPGUBDS DWHXD U	Bird shroud for PM with Up-Light (specify finish)
VCPGUBDS YK DWHXD U	Bird shroud for YK with Up-Light (specify finish)
VCPGSRM U	Surface mount kit, with no Up-Light
VCPGUSRM U	Surface mount kit, with Up-Light
VCPGWG U	Wire guard
SLVSQ	Quick mount pendant swivel kit, square
SLVRD	Quick mount pendant swivel kit, round
VCPG YK DWHXD U	Yoke mount kit (specify finish)
RSXWBA DWHXD U	RSX WBA wall bracket (specify finish)

NOTES

1 P1-P6 not available with V8. P7 not available with V4.
2 Not available with P7.
3 Only vertical height adjustment. No angle adjustment. Use PM and SLVSQ or SLVRD for mounting to angled ceiling or canopies.
4 Not available with 347V or 480V.
5 E8WC and E10WH only rated up to 35°C ambient.
6 E8WC & E10WH only available with P1-P4 packages.
7 DMG option not available with standalone or networked sensors/controls.
8 Power interruption delay >30 milliseconds required for operation. Refer sequence of operations on page 4 for more details. BDS not available with UPL1 or UPL2.
9 Not available with P6 & P7. Power interruption delay >200 milliseconds required for operation. Refer sequence of operations on page 4 for more details.
10 XAD & XAD924 not available with PIR3FC3V924 and PIRH3FC3V924.

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	Watts	Distribution Type	30K (3000K, 70 CRI)		35K (3500K, 70 CRI)		40K (4000K, 70 CRI)		50K (5000K, 70 CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	27W	T5E	3,581	135	3,670	138	3,815	144	3,876	146
		T5M	3,620	136	3,710	140	3,856	145	3,917	147
		T5W	3,592	135	3,681	139	3,827	144	3,888	146
		T5R	3,464	130	3,550	134	3,690	139	3,749	141
		LANE	3,507	132	3,594	135	3,736	141	3,796	143
P2	34W	T5E	4,577	135	4,691	138	4,876	144	4,954	146
		T5M	4,626	136	4,741	140	4,928	145	5,007	147
		T5W	4,591	135	4,705	139	4,891	144	4,968	146
		T5R	4,427	130	4,537	134	4,716	139	4,791	141
		LANE	4,482	132	4,594	135	4,775	141	4,851	143
P3	43W	T5E	5,808	134	5,952	137	6,187	143	6,286	145
		T5M	5,870	135	6,015	139	6,253	144	6,353	146
		T5W	5,825	134	5,970	138	6,205	143	6,304	145
		T5R	5,617	130	5,757	133	5,984	138	6,079	140
		LANE	5,688	131	5,829	134	6,059	140	6,155	142
P4	56W	T5E	7,391	131	7,575	135	7,874	140	7,999	142
		T5M	7,470	133	7,656	136	7,958	141	8,085	144
		T5W	7,414	132	7,597	135	7,898	140	8,023	143
		T5R	7,149	127	7,326	130	7,615	135	7,737	137
		LANE	7,238	129	7,418	132	7,711	137	7,834	139
P5	82W	T5E	10,189	124	10,442	127	10,854	132	11,027	134
		T5M	10,298	125	10,553	128	10,970	134	11,145	136
		T5W	10,220	124	10,473	128	10,887	133	11,060	135
		T5R	9,855	120	10,099	123	10,498	128	10,665	130
		LANE	9,978	121	10,226	124	10,629	129	10,799	131
P6	108W	T5E	12,878	120	13,197	123	13,719	127	13,937	129
		T5M	13,015	121	13,338	124	13,865	129	14,086	131
		T5W	12,917	120	13,237	123	13,760	128	13,979	130
		T5R	12,455	116	12,764	119	13,268	123	13,480	125
		LANE	12,611	117	12,924	120	13,435	125	13,649	127
P7	122W	T5E	15,503	125	15,887	128	16,515	133	16,778	135
		T5M	15,668	126	16,057	129	16,691	135	16,957	137
		T5W	15,549	125	15,935	129	16,564	134	16,828	136

Up-light Lumen Output

Up-light Option	Watts	Lumens
UPL1	6.5W	519
UPL2	8.5W	715

Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.926
35K	0.945
40K	0.967
50K	0.965

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
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	0.97	0.94	0.89

Electrical Load

Power Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	27W	0.22	0.13	0.12	0.10	0.08	0.06
P2	34W	0.28	0.16	0.14	0.13	0.10	0.08
P3	43W	0.37	0.21	0.18	0.16	0.13	0.09
P4	56W	0.48	0.28	0.24	0.21	0.16	0.12
P5	82W	0.68	0.40	0.35	0.30	0.24	0.18
P6	108W	0.91	0.52	0.45	0.39	0.32	0.23
P7	124W	1.03	0.59	0.51	0.44	0.37	0.27

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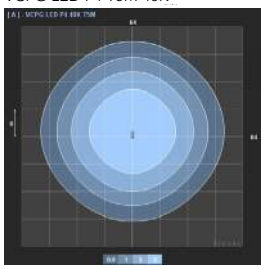
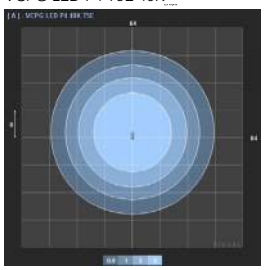
Photometric Diagrams

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

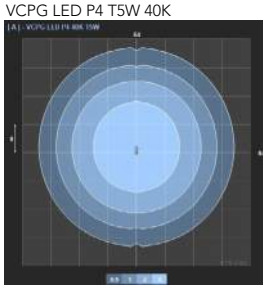
VCPG LED P4 T5M 40K



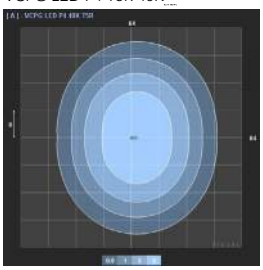
VCPG LED P4 T5E 40K



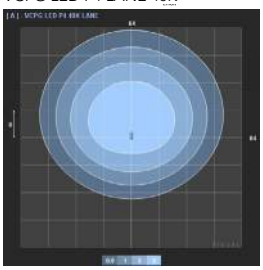
VCPG LED P4 T5W 40K



VCPG LED P4 T5R 40K



VCPG LED P4 LANE 40K



Control/Sensor Options

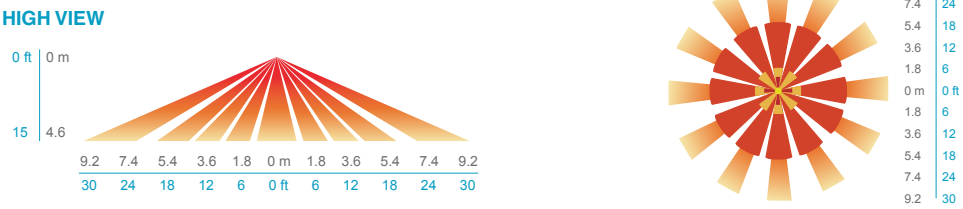
Motion/Ambient Sensor (PIR_, PIRH)

Motion/Ambeint sensor (Sensor Switch MSOD, Xpoint MSOD) is integrated into the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

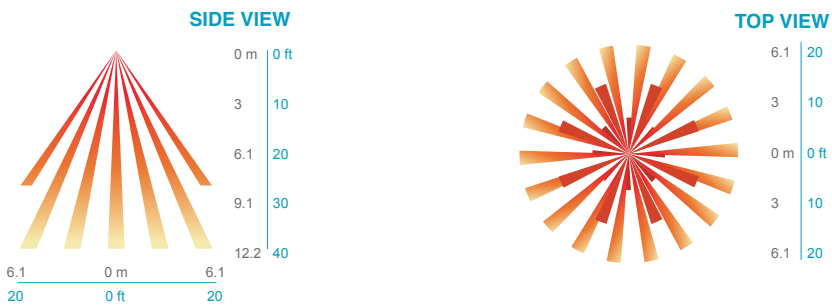
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR



PIRH



Motion/Ambient Sensor Default Settings

Option	Dim Level	High Level (when triggered)	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR3FC3V or PIRH3FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 3fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec

Sequence of Operations for UL924 Listed Controls/Sensors (PIR3FC3V924, PIRH3FC3V924, XAD924, NLTAIR2 PIR924, NLTAIR2 PIRH924)

The UL924 listed control/sensor ("device") is designed to provide full light output for 90 minutes following power loss ("Egress Mode"), ignoring both manual and automatic dimming/occupancy/daylight control signals during this time. The sequence of operations is as follows:

- Normal condition: device can dim and turn off the luminaire as normal, in response to automatic and manual control.
- Utility power fails, and luminaire loses power.
- Backup power source activates, transfer switch moves the emergency circuit powering the luminaire onto the backup source, and luminaire regains power.
- The device detects this power interruption, if it is >30ms (for PIR3FC3V924, PIRH3FC3V924, XAD924) or >200ms (for NLTAIR2 PIR924, NLTAIR2 PIRH924).
- The device ignores all dimming commands and controls the driver to full light output for 90 minutes.
- The device resumes normal dimming controls after 90 minutes.

These UL924 listed controls/sensors are not intended for use with Non-interruptible central emergency power systems. The power interruption, when transferring from normal utility power to emergency backup power, is required for the controller to activate its Egress Mode and provide full light output.

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Mounting, Options & Accessories

PM – Pendant Mount
(compatible with ¾ NPT, pendant stem provided by others)

D = 19"
H = 4.1"

SRM – Surface Mount

D = 19"
H = 4.1"

SRM – Surface Mount with Up-Light

D = 19"
H = 5.3"

YK – Yoke/Trunnion Mount

D = 19"
H (Yoke) = 10"-18"

ARM – Arm Mount

L = 28"
W = 19"
H = 8"

PIR & PIRH – Motion/ Ambient sensor

D = 19"
H = 4.6" (no up-light)
or 5.6" (with up-light)

BDS – Bird shroud for pendant mount

D = 19"
H = 8"

BDS – Bird shroud for yoke mount

D = 19"
H (Yoke) = 10"-18"

WG – Wire guard

D = 19"
H = 4.9" (no uplight)
or 5.9" (with up-light)

HS – House side shield

D = 19"
H = 7.1" (no up-light) or
8.1" (with up-light)

FEATURES & SPECIFICATIONS

INTENDED USE
The visually comfortable optics, energy savings, and long life of the VCPG LED Parking Garage luminaire make it an ideal choice for new commercial installations and retrofit parking garage opportunities. It is designed to meet or exceed recommended illuminance criteria when installed as a direct replacement of most HID parking garage luminaires. Its modern dayform and aesthetics also make it appealing for indoor low-bay applications.

CONSTRUCTION
Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP66) and is suitable for hose-down application.

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.

OPTICS
Light guide technology provides a diffused light source, reducing glare from direct view of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded micro prismatic acrylic lenses and back reflectors provide five different photometric distributions tailored specifically to parking garage applications. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light on to the ceiling, thus reducing the cave effect.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L89/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6.0 KV surge rating. When ordering the SPD10KV option, a separate 10kV (5kA) surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. The surface mount option attaches to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included); kit contains galvanized steel luminaire and outlet box plates and a full pad gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and plates are secured with set screws. Also, available with a yoke/trunnion mount option with 3/4" NPT provision for flexible conduit entry (conduit by others); height can be adjusted from 10-18". Supply leads are 24" in length as standard. Longer supply leads are available as additional options. Design can withstand up to a 3.0 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. IP66 rated for outdoor applications. 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.

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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CORE 400 LX
SCONCE

TYPE C1

PROJECT

Job _____

Type _____

Part # _____

Notes

SPECIFICATIONS

Source	Xicato XTM LED module - up to 5000 lumens
CCT	2700K, 3000K, 3500K or 4000K
Color Consistency	1x2 SDCM (MacAdam) along BBL, CCT +/- 40K to 70K, Duv +/- .001
CRI (Ra)	83 or 98
Driver / Location	Included / Internal with remote or deep canopy options
Dimming	0-10V or phase dimming to 10% standard; DALI, DMX and 1% dimming available
Input Voltage	100 to 277VAC, phase dimmable versions are 120VAC only
Power	Up to 57 watts max, depending on LED module / driver
Reflector	11˚, 25˚, 41˚, 51˚, or 83˚ - field replaceable without tools
Material	CNC machined aluminum with stainless steel hardware
Finish	Powder coat - TGIC polyester for exterior and interior use
Weight	8.5 lb. [3.9 kg]
Location	Listed for Wet & Damp locations
Approvals	ETL Listed to UL 1598, 2108, 8750 and CSA C22.2# 9 & #250.0
L80 Life	> 50,000 hours at 80% lumen maintenance based on IESNA LM-80-08
Warranty	Lifetime Limited Warranty - see warranty for details
IES Files	LM-79-08 IES files available
Modifications	Any modification or customization is possible - consult factory

LED · INDOOR OUTDOOR · WET LOCATION · DIMMABLE · LIGHTSOURCE BY XICATO® · TITLE 24 COMPLIANT · ETL LISTED Intertek

ORDERING LOGIC

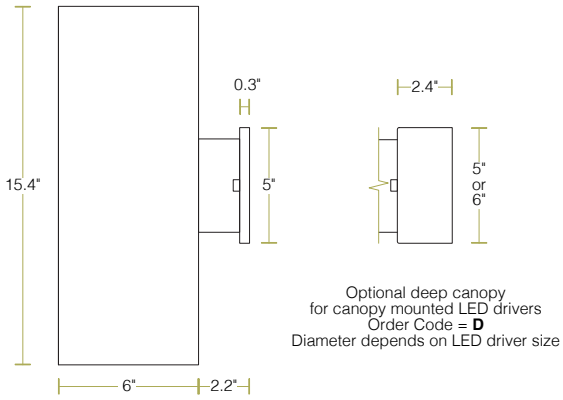
Model	Driver Location	Dimming	Mounting Location	Output	CRI *	C.C.T.	Reflector	Shell Color	Options
C4LS -			-				-	-	
	N=Internal	**N**=None	**D**=Damp	**07**=700 lm	**83**=83	**27**=2700K	**11**=11° **	**XX**	
	R=Remote	**P**=Phase	**W**=Wet	**10**=950 lm	**98**=98*	**30**=3000K	**25**=25°	(see chart on page 4)	
	D=Deep	**V**=0-10V		**13**=1300 lm		**35**=3500K	**41**=41°		
	Canopy	**Z**=Other		**20**=2000 lm		**40**=4000K	**51**=51°	**ZZ**=Custom	
				30=3000 lm			**83**=83° **		
				40=4000 lm					
				50=5000 lm					

* 98 CRI not available in 4000 or 5000 lm

** Not available with wet location

Example Part Number: **C4LS-NND-13832741-S3**
CORE **4**00 **L**X **S**conce **-** I**N**ternal Driver, **N**o Dimming, **D**amp Location **- 20**00 lm, **83** CRI, **27**00K, **41**° Reflector **- S3** Red Shell

DIMENSIONS



All canopies fit standard 3.5" and 4" round and octagonal junction boxes

Not to scale, dimensions are nominal
Consult factory for CAD drawings

Optional deep canopy
for canopy mounted LED drivers
Order Code = **D**
Diameter depends on LED driver size

LED OPTIONS

Reflector Option	LED Specifications				
	LES[1]	CRI	Lumens[2, 3]	Wattage[4] (W)	Efficacy[5] (lm/W)
11°, 25°, 41°, 51° & 83°	19mm	Ra = 83 ± 3	700	5.6	129
			950	8.2	118
			1300	11.7	111
			2000	19.5	102
			3000	29.3	102
			4000	39.1	102
			5000	46.8	107
		Ra = 98 R9 ≥ 90 R15 ≥ 95	700	7.4	97
			950	10.9	89
			1300	15.6	83
			2000	26.4	76
			3000	34.1	88

1 LES: Light Emitting Surface diameter
2 ±10%
3 Source lumens - see photometrics on page 3 for LOR to calculate delivered lumens
4 Maximum luminaire wattage including LED driver = LED wattage x 1.2
5 Higher efficacies are available via lower drive currents - consult factory

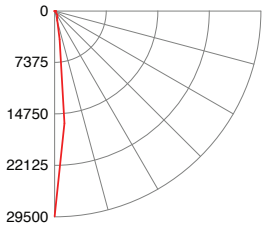
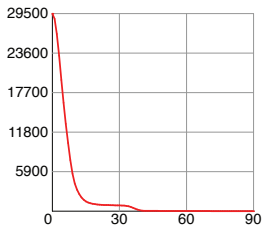
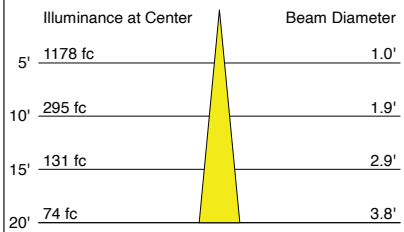
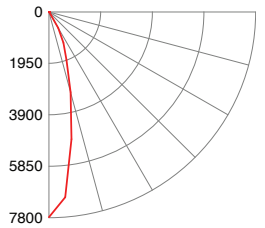
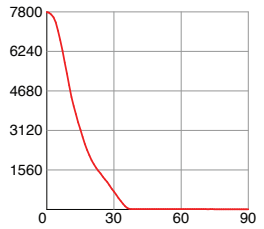
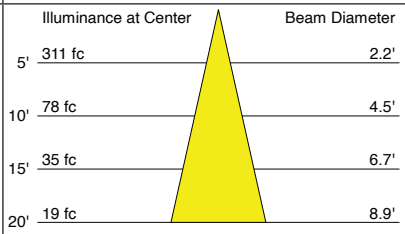
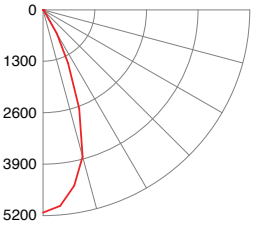
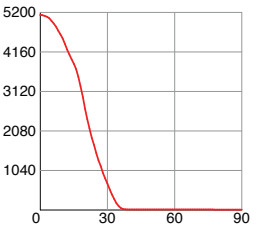
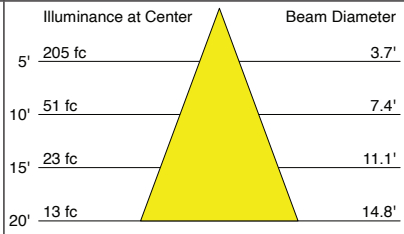
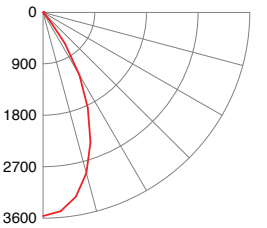
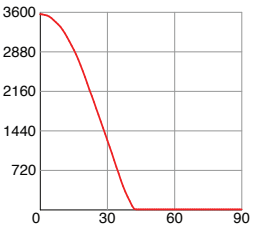
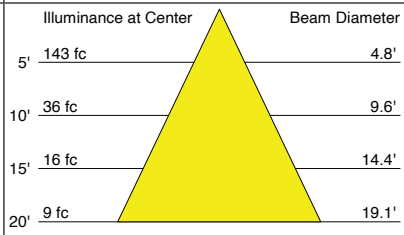
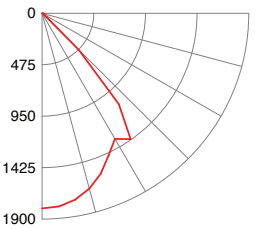
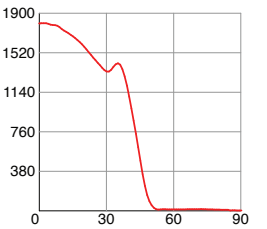
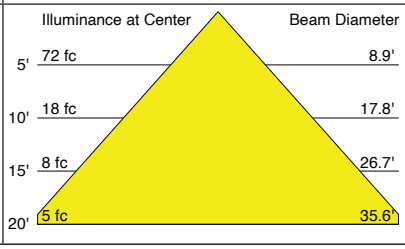
CONTROL OPTIONS

Standard LED Drivers* (included in base price)	Order Code **V** = 0-10V dimming to 10%
	Order Code **P** = Phase dimming to 10% Compatible with both forward and reverse phase dimmers
Optional LED Drivers*	eldoLED 0-10V, DALI, or DMX dimming to 0%
	Lutron Hi-lume™ A-series, EcoSystem or forward phase dimming to 1%
	Lutron Hi-lume™ 5-series, EcoSystem dimming to 5%

* Standard LED drivers are suitable for Wet Location
* Optional LED drivers are suitable for Damp Location
* For EM applications:
All LED drivers may be used with 3rd party inverter style systems

PHOTOMETRICS

LM-79-08 IES files available

Beam Angle	Order Code	Intensity Plot (cd) (3000lm)	Polar Plot (cd) (3000lm)	Cone Diagram (3000lm)	Description
11°	**11**				CBCP = 29,547 cd Beam Angle = 11° Field Angle = 23° LOR = 89.1 % Beam = full width @ 50% Field = full width @ 90%
25°	**25**				CBCP = 7,785 cd Beam Angle = 25° Field Angle = 59° LOR = 87.5 % Beam = full width @ 50% Field = full width @ 90%
41°	**41**				CBCP = 5,127 cd Beam Angle = 41° Field Angle = 62° LOR = 82.4 % Beam = full width @ 50% Field = full width @ 90%
51°	**51**				CBCP = 3,564 cd Beam Angle = 51° Field Angle = 76° LOR = 83.0 % Beam = full width @ 50% Field = full width @ 90%
83°	**83**				CBCP = 1,802 cd Beam Angle = 83° Field Angle = 96° LOR = 84.8 % Beam = full width @ 50% Field = full width @ 90%

Beam Shaping Options

Add the order code shown below to the options box at the end of the part number:

Order Code	Description
-HL	Honeycomb Louver
-DF	Diffusion Lens
-SF	Satin finish on any standard reflector
-LS	Linear Spread Lens (60° x 1°)
-WW	Wall Wash Lens (shifts beam 20° from vertical)

CORE 400 LX
SCONCE

COLOR OPTIONS

Basic Powder Coat

GW Gloss White

SW Satin White
AW Antimicrobial option

TW Textured Matte White

TB Textured Matte Black

Satin Anodized Effect Powder Coat

CS Clear Silver

OB Oil-Rubbed Bronze

DB Dark Bronze

SB Satin Black

Metallic Powder Coat

SG Silver Gray

CG Charcoal Gray

CU Copper

BR Brass

Gloss Powder Coat (80-95% Gloss)

GO Orange (RAL 2003)

GR Red (RAL 3020)

GM Magenta (RAL 4010)

GB Blue (RAL 5015)

Aluminum

BA Brushed Aluminum
Cost adder applies.

Special Order

RAL _ _ _ _
Most RAL Classic Colors (80-95% Gloss) are available for powder coat - consult ALW. Minimum setup fee applies.
See: alwusa.com/finishes for more information

CAT _ _ _ _
The complete range of powder coat colors from the Tiger Drylac and TCI catalogs are available - consult ALW. Minimum setup fee applies.

Custom

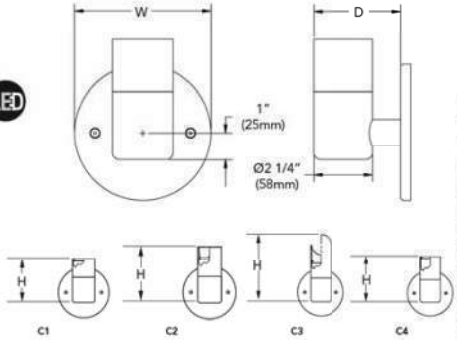
CCM _ _ _ _
Custom powder coat color matching is available - consult ALW.
Premium setup fee applies.

Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying

Note: An individual setup fee will apply to each unique Special Order/Custom Finish per purchase order.
(ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase orer. 2x setup fees will apply)

Submitted by R.C. Lurie		**Catalog Number:** GEM 3LED16 30K 12 NFL CN5 C1 BRS Notes:	**Type:** **SC**

GEM LED
WINSCAPE® 12V LED16



Specifications

D:	3-1/4" (83mm) + Mounting
W:	3-1/4" (83mm) w/CN4
	5" (127mm) w/CN5
	2-5/8" (67mm) w/CN6
H:	4-7/16" (113mm) w/C1
	5-7/16" (138mm) w/C2
	7*3/8" (188mm) w/C3
	5-3/16" (132mm) w/C4
Weight	2 lbs (1 kg)

Suitable For Wet Locations

DESCRIPTION

The Gem series is a wet location, Indoor/Outdoor rated, wall mounted luminaire designed to discreetly illuminate in a single direction. Machined from billet aluminum, stainless steel hardware, optically clear heat strengthen borosilicate glass and powder coated with a super durable TGIC powder coat finish, this fixture is designed to withstand the test of time. Designed with a wide range input voltage (11Vac - 14Vac) giving a nearly constant light output to combat voltage drop, yet is dimmable using most standard low voltage magnetic dimmers. LED units and optics are replaceable. This fixture requires a remote 12Vac Transformer, purchased separately, to function.

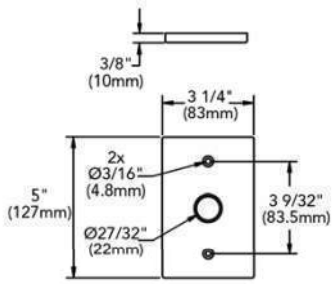
ORDERING INFORMATION

Series*	Source*	Color Temperature*	Voltage*	Distribution*	Mounting Accessories*
GEM	3LED16 LED 3up Round	30K	12[1]	NSP Narrow Spot	CN4 Rectangular canopy
		40K		NFL Narrow Flood	CN5 Round 5" canopy
		50K		FL Flood	

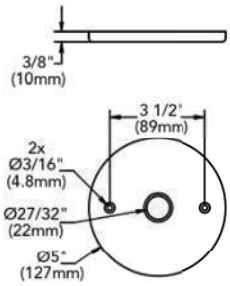
Options[2]			External Caps*	Finish*			
Internal Louver	**Internal Filters**		C1 Short Flush	BL Black Textured		DNA Natural Aluminum	
IHL Honeycomb Louver	FA Amber		C2 Recessed Lens	BRS Bronze Smooth		NBS[3] Natural Bronze Smooth	
Internal Accessory	FG Green		C3 45° Angle Cut	BRT Bronze Textured		VET Verde Textured	
L1 Prismatic Lens	FGD Green Dichroic		C4 Long Flush	CHS Chrome Smooth		WH White Textured	
L2 Linear Spread Lens	FLB Light Blue			DBL Black Smooth		WHS White Smooth	
L3 Softening Lens	FM Mercury Vapor			DDB Designer Bronze		CF Custom Finish	
	FMB Medium Blue						
	FMBD Medium Blue Dichroic						
	FR Red						
	FRD Red Dichroic						

VERIFY FINISH PROVIDED SILVER ON PREVIOUS PHASE

MOUNTING DETAIL



CN4



CN5

*Required Fields

Notes:

1. Remote transformer required.
2. Up to 3 Optional items can be specified.
3. NBS paint uses specialty pigments to give a natural appearance that may vary by fixture.

HYDREL WINSCAPE®
9144 Deering Avenue, Second Floor • Chatsworth, CA 91311 • www.hydrel.com
Phone: 866.533.9901 • Fax: 866.533.5291

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Rev. 01/14/16
GEM_LED

TYPE SF

D-Series Size 0
LED Area Luminaire

Catalog Number

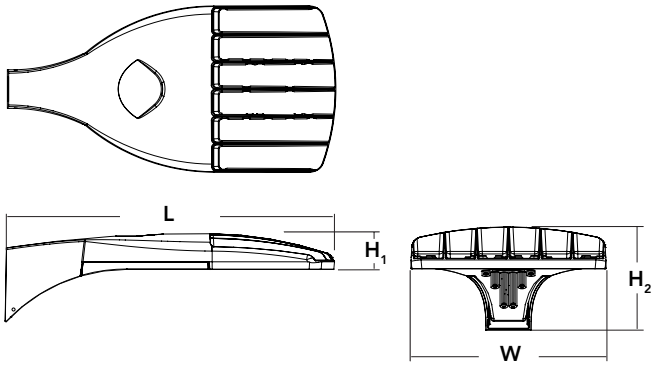
Notes

Type

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

Specifications

EPA:	0.95 ft² (.09 m²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height$_1$:	3" (7.62 cm)
Height$_2$:	7" (17.8 cm)
Weight (max):	16 lbs (7.25 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 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution		Voltage	Mounting
DSX0 LED	**Forward optics** P1 P4 P7 P2 P5 P3 P6 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	30K 3000 K 40K 4000 K 50K 5000 K	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[2]	T5S Type V short[2] T5M Type V medium[2] T5W Type V wide[2] BLC Backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT[4,5] 120[5] 208[5] 240[5] 277[5] 347[5,6] 480[5,6]	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket[2] SPUMBA Square pole universal mounting adaptor[7] RPUMBA Round pole universal mounting adaptor[7] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[8]

Control options		Other options	Finish *(required)*
Shipped installed NLTAIR2 nLight AIR generation 2 enabled[9,10] PIRHN Network, high/low motion/ambient sensor[11] PER NEMA twist-lock receptacle only (control ordered separate)[12] PER5 Five-pin receptacle only (control ordered separate)[12,13] PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate)[12,13] DMG 0-10V dimming extend out back of housing for external control (control ordered separate)[14]	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[15,16] PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[15,16] PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[15,16] PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[15,16] FAO Field adjustable output[17]	**Shipped installed** HS House-side shield[18] SF Single fuse (120, 277, 347V)[5] DF Double fuse (208, 240, 480V)[5] L90 Left rotated optics[1] R90 Right rotated optics[1] DDL Diffused drop lens[18] **Shipped separately** BS Bird spikes[19] EGS External glare shield	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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Ordering Information

Accessories

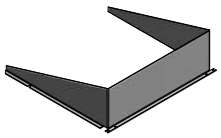
Ordered and shipped separately.

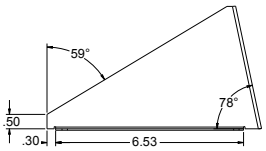
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [20]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [20]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [20]
DSHORT SBK U	Shorting cap [20]
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4 [18]
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13 [18]
DSX0HS 40C U	House-side shield for P5,P6 and P7 [18]
DSX0DDL U	Diffused drop lens (polycarbonate) [18]
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) [21]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [7]
DSX0EGS (FINISH) U	External glare shield

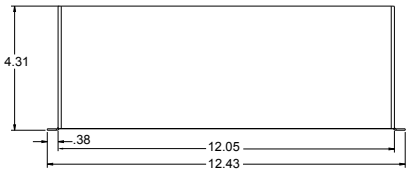
For more control options, visit DTL and ROAM online. Link to nLight Air 2

NOTES
1 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
2 Any Type 5 distribution with photocell, is not available with WBA.
3 Not available with HS or DDL.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
6 Not available with BL30, BL50 or PNMT options.
7 Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
8 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
9 Must be ordered with PIRHN.
10 Sensor cover available only in dark bronze, black, white and natural aluminum colors.
11 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link
12 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
13 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
14 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
15 Reference Motion Sensor table on page 3.
16 Reference PER Table on page 3 to see functionality.
17 Not available with other dimming controls options.
18 Not available with BLC, LCCO and RCCO distribution.
19 Must be ordered with fixture for factory pre-drilling.
20 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
21 For retrofit use only.

EGS – External Glare Shield

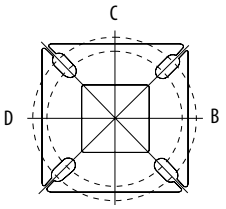


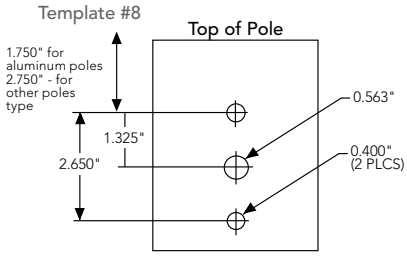




Drilling

HANDHOLE ORIENTATION
(from top of pole)





Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	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
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		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"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

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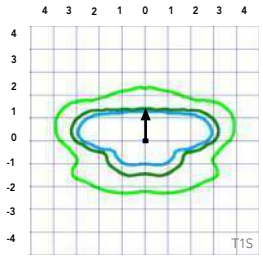
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc



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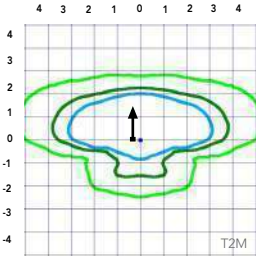

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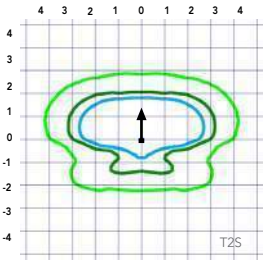
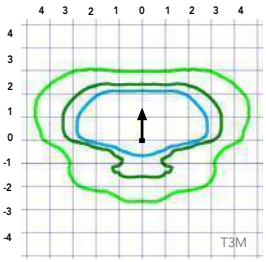


Test No. LTL23457P25 tested in accordance with IESNA LM-79-08.



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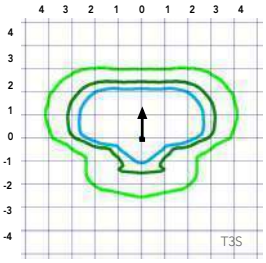
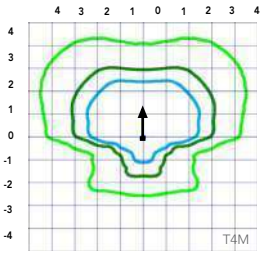


Test No. LTL23457P25 tested in accordance with IESNA LM-79-08.



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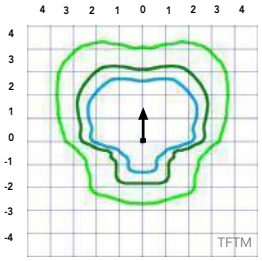

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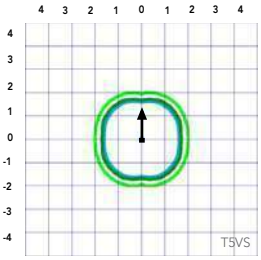

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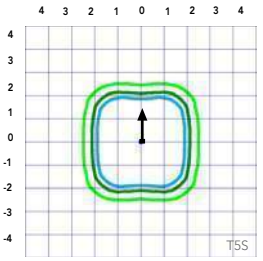

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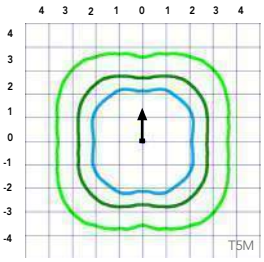

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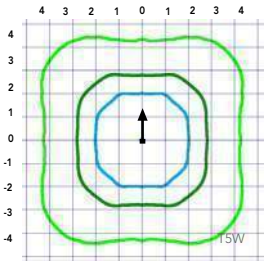
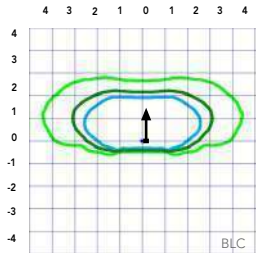


Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



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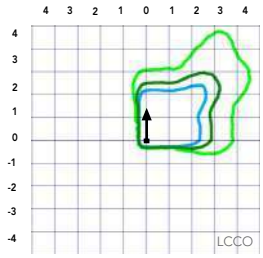

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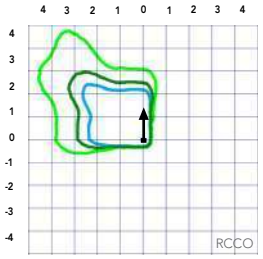

Test No.

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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	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**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
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Phototcell 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 with separate Dusk to Dawn or timer.						

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Controls Options

Nomenclature	Descripton	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the lumiaire; wired to the driver dimming leads.	Allows the lumiaire 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 independantly for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two seperately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 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 Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

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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

Power Package	LED Count	Drive Current	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
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				T5W	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				T5W	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				T5W	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				T5W	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
					5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

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Performance Data

Lumen Output

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Forward Optics

Power Package	LED Count	Drive Current	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
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				T5VS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				T5S	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				T5M	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				T5W	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				T5VS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				T5S	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				T5M	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				T5W	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				T5VS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				T5S	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				T5M	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				T5W	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

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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

Power Package	LED Count	Drive Current	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
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				T5VS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				T5S	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				T5M	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				T5W	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				T5VS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				T5S	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				T5M	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				T5W	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				T5VS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				T5S	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				T5M	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				T5W	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				T5VS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				T5S	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				T5M	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				T5W	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67
				LCCO	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44
					5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44

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A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability[1]
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire.
   Sold Separately: Link to Roam; Link to DTL DLL

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

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 driver is 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 (0.95 ft^2) 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 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 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(s) 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 DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 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 luminaries 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 Eclypse. 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 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and 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.

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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Submitted by R.C. Lurie		Catalog Number: CH2HM-FT-250PSMH-F-MT-WHT Notes:	Type: **SA3**

CHALLENGER® II MEDIUM

LUMINAIRE ORDERING INFORMATION

VERIFY FINISH

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage	Luminaire Finish	Options
Horizontal Burn CH2HM	2 – Type II 3 – Type III FT– Forward Throw 5 – Type V	100 150 175 250 320 400	PSMH – Pulse-Start Metal Halide 175, 250, 320 Watt PSMHR – Pulse-Start Metal Halide Reduced Envelope 400 Watt CMH – Ceramic Metal Halide 150 Watt HPS – High Pressure Sodium 100, 150, 250, 400 Watt	F – Flat Clear Tempered Glass	480 MT – Multi Tap TT – Tri-Tap	BRZ – Bronze BLK – Black PLP – Platinum Plus WHT – White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	PCR - Photoelectric Control Receptacle[1] TB - Terminal Block LL - Less Lamp

MT – Multi Tap consists of 120V, 208V, 240V and 277V and is prepared for highest voltage. Alternate voltages will require field adjustment.

TT – Tri-Tap consists of 120V, 277V and 347V and is shipped standard for Canadian applications and is prepared for highest voltage. Alternate voltages will require field adjustment.

Consult Factory for International Voltages and Light Sources

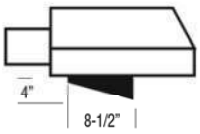
FOOTNOTES:

1- PCR factory installed and prewired to highest voltage. Alternate voltages will require field re-wiring. Photocell must be ordered separately. See Accessories.
2- Factory installed PCR option required.
3- Fusing must be located in the hand-hole of the pole - not in the fixture.
4- Black only. House side shield adds to the fixture EPA. Consult factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
PC120 – Photocell	122514[2]	DFK480 - Double Fusing	DFK480[3]
PC208-277 – Photocell for 208V, 240V or 277V	122515[2]	FK347 - Single Fusing	FK347[3]
PC347 – Photocell	159516[2]	CH2HM HSS – External House Side Shield	290383BLK[4]
PC480 – Photocell	1225180[2]	RPP2 - Round Pole Plate	162914CLR
FK120 - Single Fusing	FK120[3]	BKS-BO-WM-*-CLR Wall Mount Plate	123111CLR
FK277 - Single Fusing	FK277[3]		
DFK208, 240 - Double Fusing	DFK208, 240[3]		

HOUSE SIDE SHIELD



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Submitted by R.C. Lurie		Catalog Number: CH2HM-3-250PSMH-F-MT-WHT Notes:	Type: **SA2**

CHALLENGER® II MEDIUM

LUMINAIRE ORDERING INFORMATION

VERIFY FINISH

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage	Luminaire Finish	Options
Horizontal Burn CH2HM	2 – Type II 3 – Type III FT – Forward Throw 5 – Type V	100 150 175 250 320 400	PSMH – Pulse-Start Metal Halide 175, 250, 320 Watt PSMHR – Pulse-Start Metal Halide Reduced Envelope 400 Watt CMH – Ceramic Metal Halide 150 Watt HPS – High Pressure Sodium 100, 150, 250, 400 Watt	F – Flat Clear Tempered Glass	480 MT – Multi Tap TT – Tri-Tap	BRZ – Bronze BLK – Black PLP – Platinum Plus WHT – White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	PCR - Photoelectric Control Receptacle[1] TB - Terminal Block LL - Less Lamp

MT – Multi Tap consists of 120V, 208V, 240V and 277V and is prepared for highest voltage. Alternate voltages will require field adjustment.

TT – Tri-Tap consists of 120V, 277V and 347V and is shipped standard for Canadian applications and is prepared for highest voltage. Alternate voltages will require field adjustment.

Consult Factory for International Voltages and Light Sources

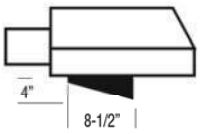
FOOTNOTES:

1- PCR factory installed and prewired to highest voltage. Alternate voltages will require field re-wiring. Photocell must be ordered separately. See Accessories.
2- Factory installed PCR option required.
3- Fusing must be located in the hand-hole of the pole - not in the fixture.
4- Black only. House side shield adds to the fixture EPA. Consult factory.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
PC120 – Photocell	122514[2]	DFK480 - Double Fusing	DFK480[3]
PC208-277 – Photocell for 208V, 240V or 277V	122515[2]	FK347 - Single Fusing	FK347[3]
PC347 – Photocell	159516[2]	CH2HM HSS – External House Side Shield	290383BLK[4]
PC480 – Photocell	1225180[2]	RPP2 - Round Pole Plate	162914CLR
FK120 - Single Fusing	FK120[3]	BKS-BO-WM-*-CLR Wall Mount Plate	123111CLR
FK277 - Single Fusing	FK277[3]		
DFK208, 240 - Double Fusing	DFK208, 240[3]		

HOUSE SIDE SHIELD



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