



LIGHTING PHOTOMETRIC  
SCALE: 1" = 30FT

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lumens per Lamp	LLF	Wattage
	S1	2	Lithonia Lighting	DSX1 LED P4 40K T5M MVOLT	DSX1 LED P4 40K T5M MVOLT	15042	0.92	125
	S2	1	Lithonia Lighting	DSX1 LED P4 40K T5M MVOLT	DSX1 LED P4 40K T5M MVOLT	15042	0.92	250
	P1	13	Visionaire Lighting LLC	ODN-1-L-5L-4K-UNV-UAM-CC-XX	ODEN-LED ARRAY TYPE V, 5L 40K	4965	0.92	32.37
	B1	26	Lithonia Lighting	RADB LED P3 50K SYM DDBXD	RADB LED P3 50K SYM DDBXD	998	0.92	13.44
	F2	29	Hydrel	PINE 9LED38 50K NFL	9 NICHIA 183 50K LEDS w/25DEG INDIVIDUAL OPTICS 5.375" DIA BULLET ALUM ADJ YOKE HOUSING w/CLEAR GLASS LENS 12 VOLT AC POWER SUPPLY ELEC:12V 1.002A 11.6W	450	0.92	12
	F1	3	Lithonia Lighting	DSXF2 LED P2 50K MSP	DSXF2 LED P2 50K MSP	Absolute	0.92	78

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Area_Grade		2.5 fc	6.5 fc	0.8 fc	8.1:1	3.1:1
Paved Area_Grade		1.1 fc	6.5 fc	0.0 fc	N/A	N/A
Pedestrian Walkway_Grade		1.4 fc	18.3 fc	0.0 fc	N/A	N/A
Site_Grade		0.5 fc	18.3 fc	0.0 fc	N/A	N/A

- GENERAL NOTES:
- MH:
  - SITE LIGHT POLE: 15'-0" A.F.G.
  - PEDESTRIAN POLE: 15'-0" A.F.G.
  - FLOODS: GROUND MOUNT
  - BOLLARD: 4'-0" A.F.G.
  - POINTS CALCULATED AT: GRADE
  - LIGHT LOSS FACTOR: AS NOTED

No.	Revision/Issue	Date

Firm Name and Address

**LIGHTSOURCE**  
THE LIGHTING & CONTROL EXPERTS

8719 CASTLE PARK DRIVE  
INDIANAPOLIS, IN 46256  
WWW.LIGHTSOURCEINDIANA.COM  
p:317-598-6900

Project Name and Address

**PLAINFIELD GOVERNMENT CENTER**  
SITE LIGHTING PHOTOMETRIC

Drawn By: **MJC**

Scale: **As Noted**

Date: **9/9/20**

Drawing #: **LS-20-5244 R1**

Sheet No.: **E101**

Disclaimer: This lighting submittal is strictly based on the information provided to LIGHTSOURCE, and is provided without warranty as to accuracy, completeness, reliability or otherwise. If the information (including but not limited to floor plans, reflected ceiling plans, selection plans and specifications) provided by client/contractor is incomplete or not current (i.e., recent revisions exist), the accuracy of proposed design may be adversely affected. Once this lighting submittal is received by the customer or end-user (as applicable) it is the obligation of the customer or end-user to apply to consult with a professional engineering advisor to determine whether the proposed design meets the applicable project requirements for lighting system performance, code compliance, safety, suitability and effectiveness for use in a particular application. In no event will LIGHTSOURCE be responsible for any loss resulting from any use of any information contained in this lighting submittal.



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## Plainfield Government Center Site

20-74968-0

9/11/2020

Type	Manufacturer/Brand	Catalog Number
S1	ABL-Lithonia Lighting	DSX1 LED P4 40K T5M MVOLT SPA DDBXD
S2	ABL-Lithonia Lighting	DSX1 LED P4 40K T5M MVOLT SPA DDBXD
P1	VISIONAIRE LIGHTING	ODN-1-L-5L-4K-UNV-UAM-CC-XX
B1	ABL-Lithonia Lighting	RADB LED P3 40K SYM MVOLT BTT BCF DDBXD
F2	ABL-Hydrel	PINE P1 80CRI 40K MVOLT 40DEG FLC KM JBB L1 C1 DDB
F1	ABL-Lithonia Lighting	DSXF2 LED P2 50K MSP MVOLT IS DDBXD



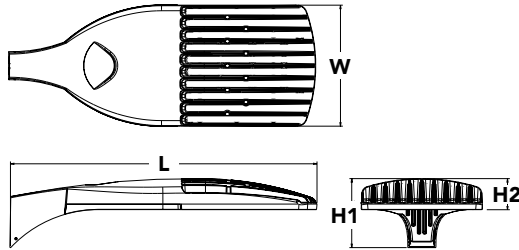
# D-Series Size 1 LED Area Luminaire

d<sup>series</sup>



### Specifications

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



Catalog Number	
Notes	
Type	

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

### Introduction

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

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

### Ordering Information

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

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

Control options	Other options	Finish (required)
<b>Shipped installed</b> NLTAIR2 nLight AIR generation 2 enabled <sup>10</sup> PIRHN Network, high/low motion/ambient sensor <sup>11</sup> PER NEMA twist-lock receptacle only (controls ordered separate) <sup>12</sup> PER5 Five-pin receptacle only (controls ordered separate) <sup>12,13</sup> PER7 Seven-pin receptacle only (controls ordered separate) <sup>12,13</sup> DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>14</sup> DS Dual switching <sup>15,16,17</sup>	<b>Shipped installed</b> HS House-side shield <sup>20</sup> SF Single fuse (120, 277, 347V) <sup>6</sup> DF Double fuse (208, 240, 480V) <sup>6</sup> L90 Left rotated optics <sup>2</sup> R90 Right rotated optics <sup>2</sup> HA 50°C ambient operations <sup>1</sup> <b>Shipped separately</b> BS Bird spikes <sup>21</sup> EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

## Ordering Information

### Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>22</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>22</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>22</sup>
DSHORT SBK U	Shorting cap <sup>22</sup>
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 <sup>23</sup>
DSX1HS 40C U	House-side shield for P6 and P7 <sup>23</sup>
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 <sup>23</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) <sup>23</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>23</sup>
DSX1EGS (FINISH) U	External glare shield

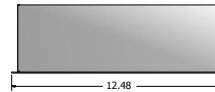
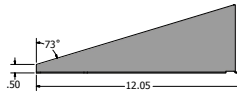
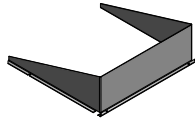
For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

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

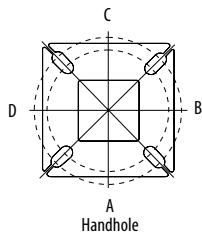
## Options

### EGS - External Glare Shield



## Drilling

### HANDHOLE ORIENTATION



### Tenon Mounting Slipfitter

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

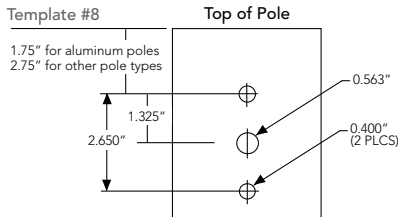
Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

### DSX1 Area Luminaire - EPA

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

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

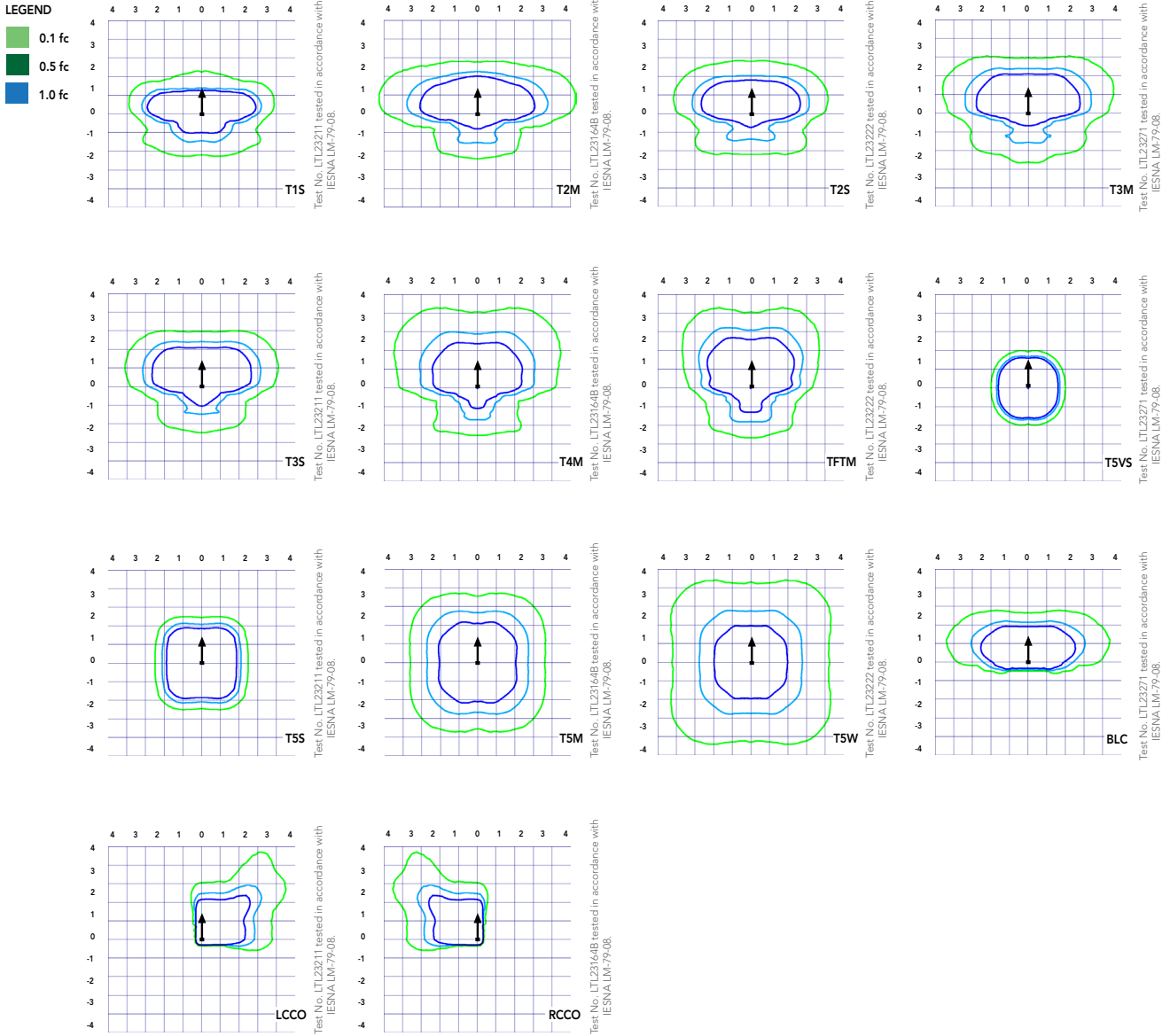
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"



**Photometric Diagrams**

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

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



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

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

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

### Projected LED Lumen Maintenance

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

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

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

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

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

### Electrical Load

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

### Controls Options

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

**Performance Data**

**Lumen Output**

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

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

Submitted By  
LIGHT SOURCE

Notes

**Performance Data**

**Lumen Output**

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

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

**Performance Data**

**Lumen Output**

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

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

## FEATURES & SPECIFICATIONS

### INTENDED USE

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

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>3</sup>) for optimized pole wind loading.

### FINISH

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

### OPTICS

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

### ELECTRICAL

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

### STANDARD CONTROLS

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

### nLIGHT AIR CONTROLS

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

### INSTALLATION

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

### LISTINGS

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

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://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](http://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.



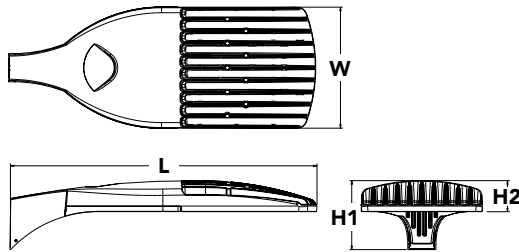
# D-Series Size 1 LED Area Luminaire



d#series

## Specifications

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



Catalog Number	
Notes	
Type	

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

## Introduction

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

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

## Ordering Information

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

Series	LEDs	Color temperature	Distribution	Voltage	Mounting	
<b>DSX1 LED</b>	<b>Forward optics</b> P1 P4 <sup>1</sup> P7 <sup>1</sup> P2 P5 <sup>2</sup> P8 P3 P6 <sup>1</sup> P9 <sup>1</sup> <b>Rotated optics</b> P10 <sup>2</sup> P12 <sup>2</sup> P11 <sup>2</sup> P13 <sup>1,2</sup>	30K 3000 K <b>40K 4000 K</b> 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	TSVS Type V very short <sup>3</sup> TSS Type V short <sup>3</sup> <b>T5M Type V medium<sup>3</sup></b> TSW Type V wide <sup>3</sup> BLC Backlight control <sup>4</sup> LCCO Left corner cutoff <sup>4</sup> RCCO Right corner cutoff <sup>4</sup>	<b>MVOLT<sup>5</sup></b> 120 <sup>6</sup> 208 <sup>6</sup> 240 <sup>6</sup> 277 <sup>6</sup> 347 <sup>6</sup> 480 <sup>6</sup>	<b>Shipped included</b> SPA Square pole mounting <sup>7</sup> RPA Round pole mounting <sup>7</sup> WBA Wall bracket <sup>3</sup> SPUMBA Square pole universal mounting adaptor <sup>8</sup> RPUMBA Round pole universal mounting adaptor <sup>8</sup> <b>Shipped separately</b> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>9</sup>

Control options	Other options	Finish (required)
<b>Shipped installed</b> NLTAIR2 nLight AIR generation 2 enabled <sup>10</sup> PIRHN Network, high/low motion/ambient sensor <sup>11</sup> PER NEMA twist-lock receptacle only (controls ordered separate) <sup>12</sup> PER5 Five-pin receptacle only (controls ordered separate) <sup>12,13</sup> PER7 Seven-pin receptacle only (controls ordered separate) <sup>12,13</sup> DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>14</sup> DS Dual switching <sup>15,16,17</sup>	<b>Shipped installed</b> HS House-side shield <sup>20</sup> SF Single fuse (120, 277, 347V) <sup>6</sup> DF Double fuse (208, 240, 480V) <sup>6</sup> L90 Left rotated optics <sup>2</sup> R90 Right rotated optics <sup>2</sup> HA 50°C ambient operations <sup>1</sup> <b>Shipped separately</b> BS Bird spikes <sup>21</sup> EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

## Ordering Information

### Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>22</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>22</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>22</sup>
DSHORT SBK U	Shorting cap <sup>22</sup>
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 <sup>23</sup>
DSX1HS 40C U	House-side shield for P6 and P7 <sup>23</sup>
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 <sup>23</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) <sup>23</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>23</sup>
DSX1EGS (FINISH) U	External glare shield

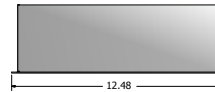
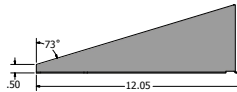
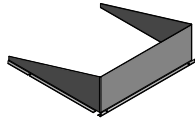
For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

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

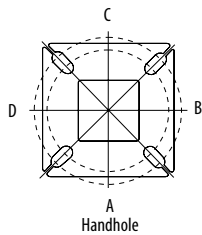
## Options

### EGS - External Glare Shield



## Drilling

### HANDHOLE ORIENTATION



### Tenon Mounting Slipfitter

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

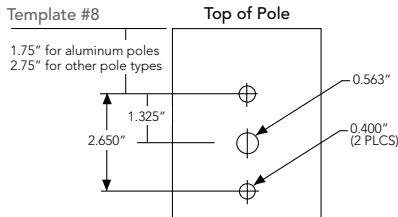
Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

### DSX1 Area Luminaire - EPA

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

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

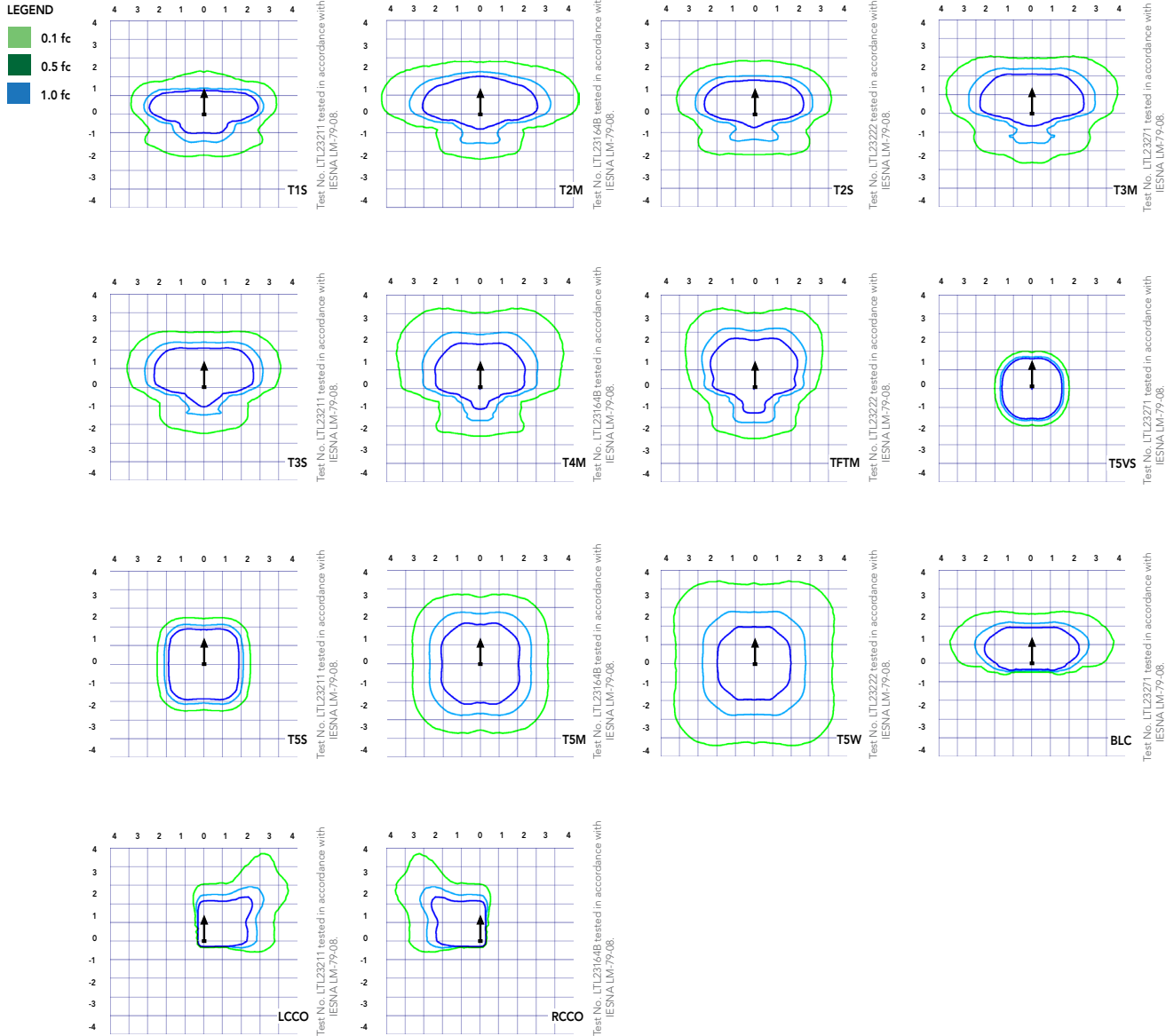
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"



**Photometric Diagrams**

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

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



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

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

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

### Projected LED Lumen Maintenance

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

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

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

#### Motion Sensor Default Settings

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

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

### Electrical Load

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

#### Controls Options

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

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LIGHT SOURCE

Notes

**Performance Data**

**Lumen Output**

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

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

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Notes

**Performance Data**

**Lumen Output**

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

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

**Performance Data**

**Lumen Output**

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

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

## FEATURES & SPECIFICATIONS

### INTENDED USE

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

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>3</sup>) for optimized pole wind loading.

### FINISH

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

### OPTICS

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

### ELECTRICAL

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

### STANDARD CONTROLS

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

### nLIGHT AIR CONTROLS

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

### INSTALLATION

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

### LISTINGS

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

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://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](http://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.

# ODEN ARRAY LED Specifications



Project Name:

Catalog Number:

Type:

With six interchangeable caps and spun shade styles, the **Oden - LED Array** offers architects, designers and engineers endless possibilities for a custom fixture to fit their unique application.

The **Oden - LED Array's** high-quality, durable construction makes it an ideal fixture for any application.

## Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	CAP/SHADE	OPTIONS	OPTIONS	
ODN-1-L	T1 Type 1	5L	3K 3000K	UNV 120-277V	UAM Arm Mount *Decorative arm not included  See decorative arm section for arm mount options	BZ Bronze	C1	PC-120 Button Type Photocell	DIM 0-10v Dimming Driver	
	T2 Type 2	10L	4K 4000K	8 347V		BK Black	C2	PC-208 Button Type Photocell	VWC Visionaire Wireless Controls Consult Factory	
	T3 Type 3	15L	5K 5000K	5 480V		SBK Smooth Black	C3			
ODN-2-L	T3L Type 3 Long	20L			ODN uses small arm. ODN-2 & ODN-3 uses large arm	WH White	C4	PC-240 Button Type Photocell	IR-R Illuminated Rings Red	
	T4 Type 4	25L				SWH Smooth White	C5	PC-277 Button Type Photocell		
	T4L Type 4 Long	30L				GP Graphite	C6	WSC-8 Motion Sensor 8' Mounting Height		
ODN-3-L	T4L Type 4 Long	35L			ODN uses small arm. ODN-2 & ODN-3 uses large arm	GY Grey	H1	WSC-20 Motion Sensor 9-20' Mounting Height	IR-B Illuminated Rings Blue	
	T5SR Type 5 Short Round	40L				SL Silver Metallic	H2		WSC-40 Motion Sensor 21-40' Mounting Height WSC options will require (1) FSIR 100 remote for programming	IR-G Illuminated Rings Green
	T5LR Type 5 Long Round	50L				CC Custom Color	H3			CLS Cutoff Louver Shield
	T5LS Type 5 LongSquare						H4			
							H5			
							H6			

# Features & Specifications

## ODEN ARRAY

### Housing

- High-quality, one-piece spun aluminum shade and durable cast aluminum top cap; available in three housing sizes.
- All external hardware is stainless steel.
- One-piece spun aluminum removable door assembly.

### Thermal Management

- The Oden - LED Array provides excellent overall thermal management by maximizing the efficiency of the heat sink in the fixture. This enables the Oden - LED Array to withstand higher ambient temperatures and higher drive currents without degrading LED life.

### Optical System

- The highest lumen output LEDs are utilized. Estimated life of the LEDs is 100,000+ hours. Available with 6 IES distribution patterns. Available with up to 96 LED Arrays. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- Serenity Lens – A visually comfortable lens that reduces the glare of LED Arrays.
- CRI values are 70

### New LED Array Technology

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

### Quali-Guard® Finish

- Fixture components are chemically pretreated through a multiple-stage washer and finished with an electrostatically-applied, thermoset polyester powder coat textured paint with a 3 to 5 mils thickness. Finish is oven-baked at 400 °F for maximum adherence and finish hardness.
- Available in standard and custom colors.

### Mounting

- The Oden - LED Array mounts to a wide selection of decorative and custom Visionaire mounting arms. Visionaire decorative mounting arm required. See Visionaire Mounting Arms section of the catalog.
- Oden 1 requires small decorative arm
- Oden 2 & Oden 3 requires large decorative arm

### Electrical Assembly

- The Oden - LED Array is supplied with a high-performance LED driver, located in its cap, that accepts 120 V thru 277 V, and 480 V, 50 Hz to 60 Hz input.
- Power factor of 90%.
- Rated for -40 °C to +40 °C operations.
- 10 kV surge protector supplied as standard.

### Warranty

- Ten (10) year Limited Warranty on electrical components.
  - Five (5) year on finish.
- For full warranty information, please visit [visionairelighting.com](http://visionairelighting.com).

### Options

- Button type photocell
- Watt Stopper FSP-211
- 0-10 V dimming driver
- Wireless Controls
- Cutoff louver system
- Illuminated Rings

### Listings

- Oden is cUL listed, suitable for wet locations.
- Powder Coated Tough™
- IP65 Rated
- IDA Certification
- PangeaLink



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>  
3000K must be selected for IDA certification.  
Fixed mount must be selected for IDA dark sky certification.

Oden Array - Electrical Load (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
ODN-1-T5LS-5L-4K	32	0.27	0.15	0.13	0.12	0.09	0.07
ODN-1-T5LS-10L-4K	66	0.55	0.32	0.28	0.24	0.19	0.14
ODN-1-T5LS-15L-4K	98	0.82	0.47	0.41	0.35	0.28	0.20
ODN-2-T5LS-20L-4K	150	1.25	0.72	0.63	0.54	0.43	0.31
ODN-2-T5LS-25L-4K	198	1.65	0.95	0.83	0.71	0.57	0.41
ODN-2-T5LS-30L-4K	206	1.72	0.99	0.86	0.74	0.59	0.43
ODN-2-T5LS-35L-4K	248	2.07	1.19	1.03	0.90	0.71	0.52
ODN-3-T5LS-40L-4K	298	2.48	1.43	1.24	1.08	0.86	0.62
ODN-3-T5LS-50L-4K	406	3.38	1.95	1.69	1.47	1.17	0.85

# ODEN ARRAY LED Specifications

## Photometric Optical Summary



## EPA Data

Fixture	Fixture Only	Fixture with VA110-S1	2 Fixtures with VA110-D2	Fixture with VA107-S1	2 Fixtures with VA107-D2
ODN-1	1.2	2.2	4.1	3.5	5.6
ODN-2	2.6	3.6	6.6	4.9	8.3
ODN-3	3.5	4.5	8.6	5.8	9.8

## Dimensions

### Size 1

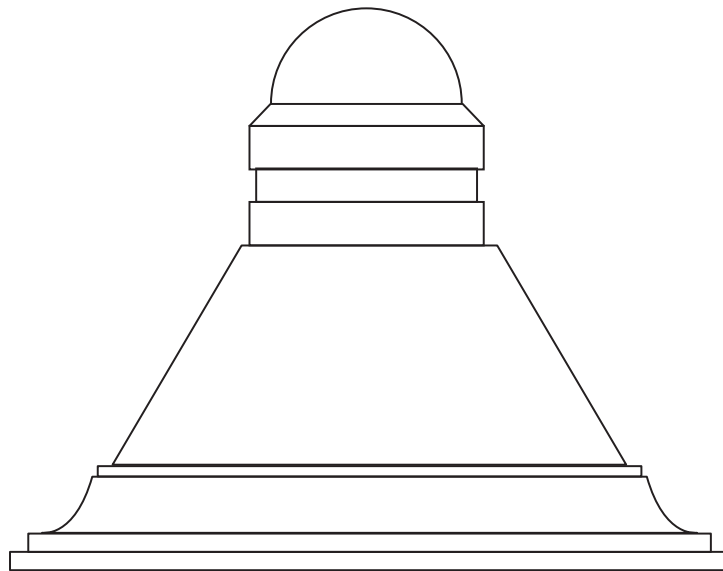
<b>Width:</b>	ODN-1 20"
<b>Height:</b>	ODN-1 17.5"
<b>Weight:</b>	40 LBS

### Size 2

<b>Width:</b>	ODN-2 25"
<b>Height:</b>	ODN-2 22.5"
<b>Weight:</b>	53 LBS

### Size 3

<b>Width:</b>	ODN-3 30"
<b>Height:</b>	ODN-3 24"
<b>Weight:</b>	74 LBS



CAP 1 (C1)

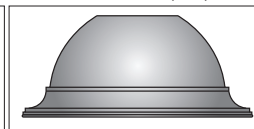
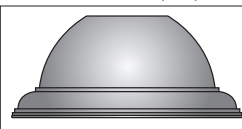
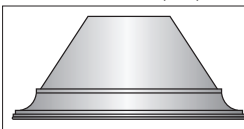
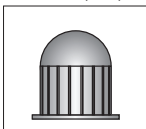
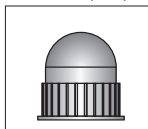
CAP 2 (C2)

CAP 3 (C3)

HOUSING 1 (H1)

HOUSING 2 (H2)

HOUSING 3 (H3)



CAP 4 (C4)

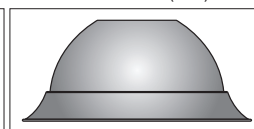
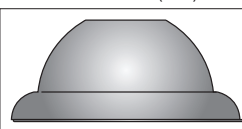
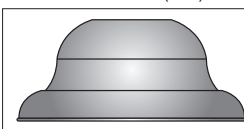
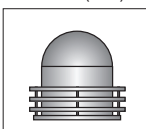
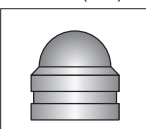
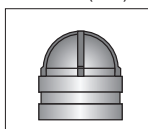
CAP 5 (C5)

CAP 6 (C6)

HOUSING 4 (H4)

HOUSING 5 (H5)

HOUSING 6 (H6)



LED Specifications **ODEN ARRAY**

Oden Array - 3K Lumen Data												
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	4419	4408	4379	4271	4293	4476	4264	4296	4404	4516	32
	10L	8652	8631	8574	8363	8405	8765	8349	8412	8624	8842	66
	15L	12978	12946	12862	12544	12608	13147	12523	12618	12936	13264	98
ODN-2	20L	19521	19474	19346	18869	18964	19776	18837	18980	19458	19951	150
	25L	24606	24546	24385	23784	23904	24927	23744	23924	24526	25147	198
	30L	27192	27126	26948	26283	26416	27547	26239	26439	27103	27790	206
ODN-3	35L	31642	31565	31359	30585	30740	32055	30533	30766	31539	32339	248
	40L	36909	36818	36578	35675	35856	37390	35615	35886	36788	37721	298
	50L	45615	45503	45206	44091	44314	46210	44016	44351	45466	46619	406
Oden Array - 4K Lumen Data												
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	4980	4968	4935	4813	4838	5045	4805	4842	4964	5089	32
	10L	9751	9727	9663	9425	9473	9878	9409	9481	9719	9965	66
	15L	14626	14590	14495	14137	14209	14817	14114	14221	14578	14948	98
ODN-2	20L	22000	21947	21803	21265	21373	22287	21229	21391	21929	22484	150
	25L	27731	27663	27482	26804	26940	28092	26759	26962	27640	28341	198
	30L	30645	30570	30370	29621	29771	31045	29571	29796	30545	31320	206
ODN-3	35L	35661	35574	35341	34469	34644	36126	34411	34673	35544	36445	248
	40L	41596	41494	41223	40206	40409	42138	40138	40443	41460	42511	298
	50L	51408	51282	50947	49690	49941	52078	49606	49983	51240	52539	406
Oden Array - 5K Lumen Data												
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	5093	5081	5048	4923	4948	5160	4915	4952	5077	5206	32
	10L	9973	9949	9884	9640	9689	10103	9624	9697	9941	10193	66
	15L	14960	14923	14826	14460	14533	15155	14436	14545	14911	15289	98
ODN-2	20L	22503	22447	22301	21751	21861	22796	21714	21879	22429	22998	150
	25L	28364	28294	28109	27416	27554	28733	27370	27578	28271	28988	198
	30L	31345	31268	31064	30297	30451	31753	30246	30476	31243	32034	206
ODN-3	35L	36475	36386	36148	35256	35434	36950	35196	35464	36356	37277	248
	40L	42545	42441	42164	41124	41332	43100	41054	41366	42407	43482	298
	50L	52581	52453	52110	50824	51081	53267	50738	51124	52410	53738	406

Motion Sensor Default Setting									
Type	High Mode	Low Mode	Time Delay	Cut off Delay	Sensitivity	Hold Off Set Point	Photocell On/Off	Ramp up Time	Fade Down Time
WSC-Default	10V	1V	5 Min	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Min	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

# ODEN ARRAY LED Specifications

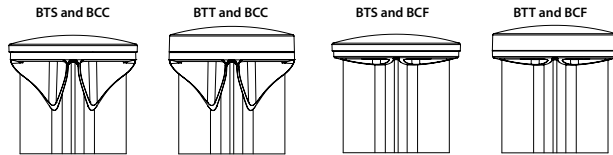
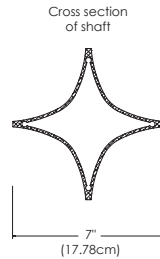
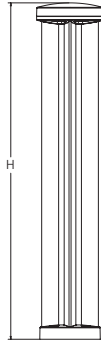
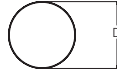
Oden Array - 3K Lumen Per Watt Data												
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	137	136	135	132	133	138	132	133	136	140	32
	10L	132	132	131	128	128	134	127	128	132	135	66
	15L	132	132	131	128	128	134	127	128	132	135	98
ODN-2	20L	130	130	129	126	127	132	126	127	130	133	150
	25L	124	124	123	120	120	126	120	121	124	127	198
	30L	132	132	131	128	128	134	127	128	132	135	206
	35L	128	127	126	123	124	129	123	124	127	130	248
ODN-3	40L	124	124	123	120	120	126	120	121	124	127	298
	50L	112	112	111	109	109	114	108	109	112	115	406
Oden Array - 4K Lumen Per Watt Data												
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	154	153	152	149	149	156	148	150	153	157	32
	10L	149	148	147	144	145	151	144	145	148	152	66
	15L	149	148	147	144	145	151	144	145	148	152	98
ODN-2	20L	147	146	145	142	143	149	142	143	146	150	150
	25L	140	139	139	135	136	142	135	136	139	143	198
	30L	149	148	147	144	145	151	144	145	148	152	206
	35L	144	143	143	139	140	146	139	140	143	147	248
ODN-3	40L	140	139	139	135	136	142	135	136	139	143	298
	50L	127	126	126	122	123	128	122	123	126	129	406
Oden Array - 5K Lumen Per Watt Data												
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	157	157	156	152	153	159	152	153	157	161	32
	10L	152	152	151	147	148	154	147	148	152	156	66
	15L	152	152	151	147	148	154	147	148	152	156	98
ODN-2	20L	150	150	149	145	146	152	145	146	150	153	150
	25L	143	143	142	138	139	145	138	139	142	146	198
	30L	152	152	151	147	148	154	147	148	152	156	206
	35L	147	147	146	142	143	149	142	143	147	150	248
ODN-3	40L	143	143	142	138	139	145	138	139	142	146	298
	50L	130	129	128	125	126	131	125	126	129	132	406

LED Specifications **ODEN ARRAY**

		Oden Array - 3K BUG Data																																	
K Lumens		T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage			
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
ODN-1	5L	2	0	2	1	0	1	1	0	1	2	0	2	1	0	1	1	0	1	1	0	1	1	0	2	3	0	2	3	0	1	2	0	1	32
	10L	3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	2	0	2	2	0	2	3	0	2	3	0	2	3	0	1	66
	15L	4	0	4	3	0	3	2	0	2	3	0	3	3	0	3	2	0	2	3	0	3	2	0	3	4	0	3	4	0	2	4	0	2	98
ODN-2	20L	4	0	4	3	0	3	3	0	3	3	0	3	4	0	3	3	0	3	3	0	3	3	0	3	5	0	3	5	0	3	4	0	2	150
	25L	5	0	5	3	0	3	3	0	3	4	0	3	4	0	5	3	0	4	3	0	3	4	0	4	5	0	4	5	0	3	5	0	3	198
	30L	5	0	5	4	0	4	3	0	4	4	0	4	4	0	5	3	0	4	3	0	3	4	0	4	5	0	4	5	0	3	5	0	3	206
	35L	5	0	5	4	0	4	3	0	4	4	0	4	4	0	5	4	0	4	4	0	3	4	0	4	5	0	5	5	0	4	5	0	3	248
ODN-3	40L	5	0	5	4	0	4	4	0	4	4	0	4	4	0	5	4	0	5	4	0	4	4	0	4	5	0	5	5	0	4	5	0	4	298
	50L	5	0	5	4	0	4	4	0	4	4	0	5	4	0	5	4	0	5	4	0	4	4	0	5	5	0	5	5	0	4	5	0	4	406
		Oden Array - 4K BUG Data																																	
K Lumens		T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage			
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		B	U	G
ODN-1	5L	3	0	3	1	0	1	1	0	1	2	0	2	1	0	2	1	0	1	2	0	2	3	0	2	3	0	2	3	0	1	3	0	1	32
	10L	3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	3	0	3	4	0	3	4	0	2	3	0	2	3	0	2	66
	15L	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	3	4	0	2	4	0	2	98
ODN-2	20L	4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	3	0	3	3	0	3	3	0	4	5	0	4	5	0	3	4	0	2	150
	25L	5	0	5	4	0	4	3	0	4	4	0	4	4	0	5	3	0	4	3	0	3	4	0	4	5	0	4	5	0	3	5	0	3	198
	30L	5	0	5	4	0	4	3	0	4	4	0	4	4	0	5	4	0	4	4	0	3	4	0	4	5	0	5	5	0	4	5	0	3	206
	35L	5	0	5	4	0	4	4	0	4	4	0	4	4	0	5	4	0	5	4	0	4	4	0	4	5	0	5	5	0	4	5	0	3	248
ODN-3	40L	5	0	5	4	0	4	4	0	4	4	0	5	4	0	5	4	0	5	4	0	4	4	0	4	5	0	5	5	0	4	5	0	4	298
	50L	5	0	5	4	0	4	4	0	4	4	0	5	5	0	5	4	0	5	5	0	4	5	0	5	5	0	5	5	0	4	5	0	4	406
		Oden Array - 5K BUG Data																																	
K Lumens		T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage			
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		B	U	G
ODN-1	5L	3	0	3	1	0	1	1	0	1	2	0	2	1	0	2	1	0	1	2	0	2	3	0	2	3	0	2	3	0	1	3	0	1	32
	10L	3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	3	0	3	4	0	3	4	0	2	3	0	2	3	0	2	66
	15L	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	3	4	0	2	4	0	2	98
ODN-2	20L	4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	3	0	3	3	0	3	3	0	4	5	0	4	5	0	3	4	0	2	150
	25L	5	0	5	4	0	4	3	0	4	4	0	4	4	0	5	3	0	4	3	0	3	4	0	4	5	0	4	5	0	3	5	0	3	198
	30L	5	0	5	4	0	4	3	0	4	4	0	4	4	0	5	4	0	4	4	0	3	4	0	4	5	0	5	5	0	4	5	0	3	206
	35L	5	0	5	4	0	4	4	0	4	4	0	4	4	0	5	4	0	5	4	0	4	4	0	4	5	0	5	5	0	4	5	0	3	248
ODN-3	40L	5	0	5	4	0	4	4	0	4	4	0	5	5	0	5	4	0	5	4	0	4	4	0	4	5	0	5	5	0	4	5	0	4	298
	50L	5	0	5	4	0	4	4	0	4	4	0	5	5	0	5	4	0	5	5	0	4	5	0	5	5	0	5	5	0	4	5	0	4	406



# RADEAN Bollard LED Site Luminaire



Catalog Number
Notes
Type

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

## Introduction

The Radean LED Bollard is an award-winning, energy-saving, long-life solution designed to perform the way a bollard should.

The Radean LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

## Specifications

- Diameter:** D = 8.25" (20.96cm)
- Height:** H = 41.5" Standard (105.41cm)
- Weight (max):** 20lbs (9.07Kg)

## Ordering Information

**EXAMPLE:** RADB LED P4 30K SYM MVOLT BTS BCCDNATXD DBLXD

RADB LED							
Series	Performance Package	Color temperature	Distribution	Voltage	Control options	Bollard top (required)	
RADB LED	P1	27K 2700 K	ASY Asymmetric <sup>2</sup>	MVOLT <sup>3</sup>	<b>Shipped installed</b> PE Photoelectric cell, button type <sup>4,5</sup> DMG 0-10V dimming driver (no controls) E7WH Emergency battery backup, Certified in CA Title 20 MAEDBS1 <sup>6,7</sup> FAO Field adjustable output <sup>5</sup> PIR Motion sensor Bi-level <sup>3,5,6,7</sup>	<b>Slim Top</b> BTS Slim top, painted to match shaft <sup>5,8</sup> BTSDWHXD Slim top, white <sup>5,8</sup> BTSDBLBXD Slim top, black texture <sup>5,8</sup> BTSDBLXD Slim top, black <sup>5,8</sup> BTSDDBTXD Slim top, dark bronze textured <sup>5,8</sup> BTSDDBXD Slim top, dark bronze <sup>5,8</sup> BTSDNATXD Slim top, natural aluminum textured <sup>5,8</sup> BTSDNAXD Slim top, natural aluminum <sup>5,8</sup> BTSDWHGXD Slim top, white textured <sup>8</sup>	
	P2	30K 3000 K	SYM Symmetric <sup>1</sup>	120			<b>Tall Top</b> BTT Tall top painted to match shaft <sup>5</sup> BTDBLXD Tall top, black textured <sup>8</sup> BTDBLXD Tall top, black <sup>8</sup> BTDDBTXD Tall top, dark bronze textured <sup>8</sup> BTDDDBXD Tall top, dark bronze <sup>8</sup> BTDDNATXD Tall top, natural aluminum textured <sup>8</sup> BTDDNAXD Tall top, natural aluminum <sup>8</sup> BTDDWHGXD Tall top, white textured <sup>8</sup> BTDDWHXD Tall top, white <sup>8</sup>
	P3	35K 3500 K		208 <sup>3</sup>			
	P4	40K 4000 K		240 <sup>3</sup>			
	P5 <sup>1</sup>	50K 5000 K		277			
				347			
				480			

Bollard crown (required)		Other options	Finish (required)
<b>Deep Crown</b> BCC Deep crown, painted to match shaft <sup>8</sup> BCCDWHXD Deep crown, white <sup>8</sup> BCCDBLXD Deep crown, black <sup>8</sup> BCCDBLXD Deep crown, black textured <sup>8</sup> BCCDDBTXD Deep crown, dark bronze textured <sup>8</sup> BCCDDBXD Deep crown, dark bronze <sup>8</sup> BCCDNATXD Deep crown, natural aluminum textured <sup>8</sup> BCCDNAXD Deep crown, natural aluminum <sup>8</sup> BCCDWHGXD Deep crown, white textured <sup>8</sup>	<b>Flat Crown</b> BCF Flat crown, painted to match shaft <sup>8</sup> BCFDBLXD Flat crown, black textured <sup>8</sup> BCFDBLXD Flat crown, black <sup>8</sup> BCFDDBTXD Flat crown, dark bronze textured <sup>8</sup> BCFDDBXD Flat crown, dark bronze <sup>8</sup> BCFDNATXD Flat crown, natural aluminum textured <sup>8</sup> BCFDNAXD Flat crown, natural aluminum <sup>8</sup> BCFDWHGXD Flat crown, white textured <sup>8</sup> BCFDWHXD Flat crown, white <sup>8</sup>	H24 <sup>6,9</sup> 24" overall height H30 <sup>6,9</sup> 30" overall height H36 <sup>6,9</sup> 36" overall height L/AB Without anchor bolts	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

## Accessories

Ordered and shipped separately.

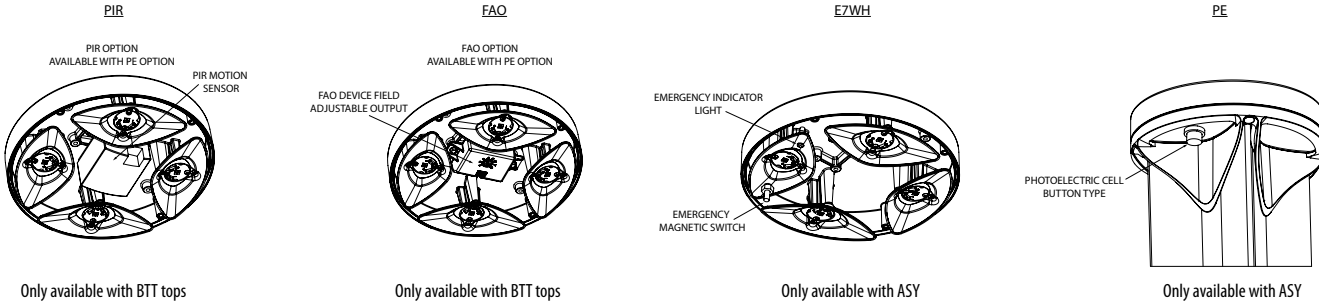
RADBAB U	Anchor bolts (4)	RK1RADB BCKIT (FINISH) U	Base cover with bolt caps
RADBABC DDBXD U	Replacement anchor bolt covers (specify finish) (4)	RK1RADB ETESTMAG U	Emergency test stylus

## NOTES

- P5 only available in SYM distribution.
- ASY has only two illuminated quadrants driven at higher drive currents to generate similar output as the SYM-4-quadrant product.
- PIR not available with 208V or 240V.
- PE only available with ASY.
- PE, PIR and FAO not available with BTS.

- E7WH and PIR only available in full height. Not available with H24, H30 or H36.
- PIR not available with E7WH.
- Architectural and custom colors available (additional leadtimes and cost may apply).
- 42" Height is standard. H24, H30 and H36 have longer leadtimes.

**Options**



**Performance Data**

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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

**Performance Data  
DNAXD Finish\***

Light Engines	Performance Package	System Watts	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
"Symmetric (4 light engines)"	P1	5	345	0	1	0	66	362	0	1	0	69	370	0	1	0	71	380	0	1	0	73	382	0	1	0	73
	P2	8	644	0	1	0	81	677	0	1	0	85	692	0	1	0	87	711	0	1	0	89	713	0	1	0	89
	P3	13	1036	1	1	0	77	1088	1	1	0	81	1112	1	1	0	83	1142	1	1	0	85	1146	1	1	0	85
	P4	19	1460	1	1	0	79	1534	1	1	0	83	1568	1	1	0	84	1610	1	1	0	87	1616	1	1	0	87
	P5	32	2314	1	1	0	72	2430	1	1	0	75	2484	1	1	0	77	2551	1	1	0	79	2561	1	1	0	79
"Asymmetric (2 light engines)"	P1	5	312	0	1	0	60	328	0	1	0	63	335	0	1	0	64	344	0	1	0	66	346	0	1	0	66
	P2	8	584	0	1	0	73	613	0	1	0	77	627	0	1	0	78	644	0	1	0	81	646	0	1	0	81
	P3	13	938	0	1	0	70	985	0	1	0	73	1007	0	1	0	75	1035	0	1	0	77	1038	0	1	0	77
	P4	19	1323	0	1	0	71	1390	0	1	0	75	1420	0	1	0	76	1459	0	1	0	78	1464	0	1	0	79

\*Note: Lumen output varies based on finish. Silver color shown, for black (worst) or white (best) photometry, see specific photometric files downloadable from [www.acuitybrands.com](http://www.acuitybrands.com)

**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.

Projected LED Lumen Maintenance				
	25,000	50,000	75,000	100,000
P1	0.94	0.89	0.85	0.80
P2	0.94	0.89	0.85	0.80
P3	0.94	0.89	0.85	0.80
P4	0.94	0.89	0.85	0.80
P5	0.94	0.89	0.85	0.80

**Lumen Ambient Temperature (LAT) Multipliers**

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

Ambient		LAT Factor
0	32°F	1.03
5	41°F	1.03
10	50°F	1.02
15	59°F	1.01
20	68°F	1.01
25	77°F	1
30	86°F	0.99
35	95°F	0.99
40	104°F	0.98

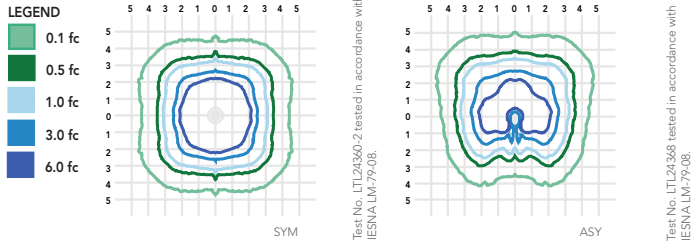
**Electrical Load**

	Current (Amp)						Current (Amp)			
	Watts @120V (W)	Watts @277V (W)	@120V (A)	@208V (A)	@240V (A)	@277V (A)	Watts (@347V)	Watts (@480V)	@347V (A)	@480V (A)
P1 ASY	5	6	0.0445	0.0299	0.0276	0.0262	10	10	0.0443	0.0319
P2 ASY	9	10	0.0751	0.0471	0.0429	0.0399	14	14	0.0505	0.0364
P3 ASY	14	15	0.1147	0.0699	0.0627	0.0571	18	18	0.0611	0.0441
P4 ASY	19	19	0.1586	0.0928	0.0819	0.0735	23	23	0.0709	0.0513
P1 SYM	5	6	0.0444	0.0301	0.0279	0.0265	9	9	0.0441	0.0319
P2 SYM	9	10	0.0734	0.0461	0.0421	0.0391	13	13	0.0502	0.0363
P3 SYM	13	14	0.112	0.067	0.0598	0.0544	18	18	0.0602	0.0435
P4 SYM	18	19	0.1535	0.0902	0.0796	0.0713	22	22	0.0691	0.0499
P5 SYM	31	31	0.2597	0.1527	0.1326	0.1149	35	36	0.1079	0.079

**Photometric Diagrams**

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [RADEAN Bollard homepage](#).

Isofootcandle plots for the RADB. Distances are in units of mounting height (3.5').



**FEATURES & SPECIFICATIONS**

**INTENDED USE**

The rugged construction and maintenance-free performance of the Radean LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

**CONSTRUCTION**

One-piece extruded aluminum shaft with thick side walls for extreme durability, and die-cast reflector and top cap. Four 3/8" x 16" anchor bolts with double nuts and washers and 5-2/3" max. bolt circle template ensure stability. Overall height is 42" standard.

**FINISH**

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

**OPTICS**

Two optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination. Light engines are available in 2700K, 3000K, 3500K, 4000K or 5000K.

**ELECTRICAL**

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L80/100,000 hours at P5 at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

**LISTINGS**

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Emergency battery backup rated for -10°C minimum ambient. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color or less.

**WARRANTY**

Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

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



CATALOG NUMBER \_\_\_\_\_

NOTES \_\_\_\_\_

TYPE \_\_\_\_\_



## PINE MVOLT LED

### HIGHLIGHTS

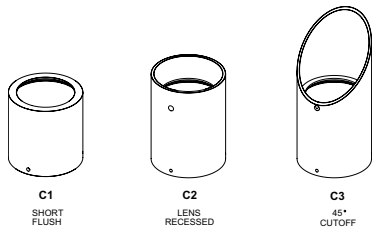
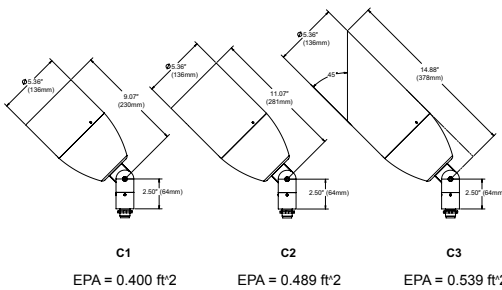
- The Pine Series accent light is suitable for a variety of mounting applications including ground, wall, tree, sign and architectural accents
- Suitable for wet locations
- Dimmable using a standard low voltage magnetic dimmer
- Available in 80CRI and 90CRI
- 4,200lm



#### Specifications

Weight:	10 lbs
H:	9.07" (230mm) w/C1
	11.07" (281mm) w/C2
	14.88" (378mm) w/C3

### DIMENSIONS

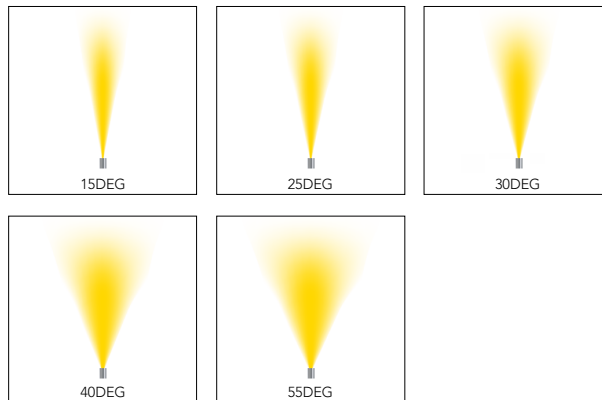


### LUMEN PACKAGES

	15DEG	20DEG	25DEG	30DEG	35DEG	40DEG	45DEG	50DEG	55DEG
Delivered Lumens	3,298	3,124	3,175	3121	3254	3240	3138	3128	3131
Watts	33	33	33	33	33	33	33	33	33
LPW	100	95	96	95	99	98	95	95	95
Peak Candela	31,317	13,776	14,155	8649	7574	6133	4813	3749	3260

Note: Information based on 4000K @ P1, 80CRI, 120 Volt with C1 cap and FLC lens

### STANDARD DISTRIBUTION





**ORDERING INFORMATION**

EXAMPLE: PINE P1 90CRI 27K 120 15DEG WSL KM JBA IHL C2 BL

PINE										
Series*	Performance Packages*	CRI*	LED Color	Voltage*	Distribution	Lens	Mounting	Mounting Accessories*		
PINE	P1 P2	80CRI 90CRI	27K 30K 35K 40K 50K1	MVOLT 120-277VAC	15DEG 15° 20DEG 20° 25DEG 25° 30DEG 30° 35DEG 35° 40DEG 40° 45DEG 45° 50DEG 50° 55DEG 55°	FLC Flat Clear WSL Watershed	KM Knuckle Mount	<b>Independent Mounting</b> <b>JBA</b> Aluminum J-Box <b>JBB</b> Bronze J-Box Architectural <b>ARJB</b> J-Box, Aluminum <b>WMSA</b> Wall Mount with Splice Access <b>PM60C</b> Post Mount with Conduit		
<b>Options<sup>4</sup></b>										
<b>Internal Louver</b>			<b>Internal Filters<sup>5</sup></b>		<b>External Caps*</b>		<b>Finish*</b>			
IHL	Honeycomb Louver	FA	Amber	C1	Short Flush	<b>All Material</b>		<b>All Material</b>		
<b>Internal Accessory</b>			FG	Green	C2	Recessed Lens	BL	Black Textured	DNA	Natural Aluminum
L1	Prismatic Lens	FGD	Green Dichroic	C3	45° Angle Cut	BRS	Bronze Smooth	NBS <sup>6</sup>	Natural Bronze Smooth	
L2	Linear Spread Lens	FLB	Light Blue			BRT	Bronze Textured	STG	Steel Gray	
L3	Softening Lens	FM	Mercury Vapor			DBL	Black Smooth	VET	Verde Textured	
		FMB	Medium Blue			DDB	Designer Bronze	WH	White Textured	
		FMBD	Medium Blue Dichroic					WHS	White Smooth	
		FR	Red					CF	Custom Finish	
		FRD	Red Dichroic					RALTBD	Ral Paint Finishes	
<p>Note: RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the <a href="#">RALBROCHURE</a> for available options. It is recommended that Hydrel products only use textured paint.</p>										

\*Required Fields

Notes:

- 80CRI Only.
- Stems only compatible with PM60C.
- Extended arms are compatible with WMSA.
- Up to 2 options can be specified.
- Only available with P1
- NBS paint uses specialty pigments to give a natural appearance that may vary by fixture.



**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. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1	33	15DEG	29	29	15	15	28,641	3,016	91	29,711	3,129	95	30,247	3,185	97	31,317	3,298	100	32,388	3,410	103
		20DEG	44	44	21	21	12,598	2,857	87	13,069	2,964	90	13,305	3,017	91	13,776	3,124	95	14,247	3,231	98
		25DEG	43	43	23	23	12,945	2,904	88	13,429	3,012	91	13,671	3,067	93	14,155	3,175	96	14,639	3,284	100
		30DEG	55	55	30	30	7,910	2,855	87	8,206	2,961	90	8,353	3,015	91	8,649	3,121	95	8,945	3,228	98
		35DEG	56	54	36	33	6,927	2,976	90	7,186	3,088	94	7,316	3,143	95	7,574	3,254	99	7,833	3,366	102
		40DEG	64	63	40	39	5,609	2,963	90	5,818	3,074	93	5,923	3,129	95	6,133	3,240	98	6,343	3,351	102
		45DEG	74	73	44	43	4,401	2,870	87	4,566	2,977	90	4,648	3,030	92	4,813	3,138	95	4,977	3,245	98
		50DEG	86	86	51	51	3,429	2,861	87	3,557	2,968	90	3,621	3,021	92	3,749	3,128	95	3,877	3,235	98
		55DEG	94	94	54	53	2,982	2,863	87	3,093	2,970	90	3,149	3,024	92	3,260	3,131	95	3,372	3,238	98
		55DEG	29	29	15	15	35,517	3,740	71	36,845	3,880	73	37,508	3,950	75	38,836	4,089	77	40,164	4,229	80
P2	53	20DEG	44	44	21	21	15,623	3,543	67	16,207	3,675	69	16,499	3,742	71	17,083	3,874	73	17,667	4,006	76
		25DEG	43	43	23	23	16,053	3,601	68	16,653	3,736	70	16,953	3,803	72	17,553	3,938	74	18,153	4,072	77
		30DEG	55	55	30	30	9,809	3,540	67	10,176	3,672	69	10,359	3,739	71	10,726	3,871	73	11,092	4,003	76
		35DEG	56	54	36	33	8,590	3,691	70	8,911	3,829	72	9,072	3,898	74	9,393	4,036	76	9,714	4,174	79
		40DEG	64	63	40	39	6,955	3,674	69	7,215	3,812	72	7,345	3,880	73	7,605	4,018	76	7,865	4,155	78
		45DEG	74	73	44	43	5,458	3,559	67	5,662	3,692	70	5,764	3,758	71	5,968	3,891	73	6,172	4,024	76
		50DEG	86	86	51	51	4,252	3,548	67	4,411	3,680	69	4,490	3,747	71	4,649	3,879	73	4,808	4,012	76
		55DEG	94	94	54	53	3,697	3,551	67	3,836	3,684	70	3,905	3,750	71	4,043	3,883	73	4,181	4,015	76

CRI SCALING	Multiplier
90CRI	0.83

**PHOTOMETRIC DIAGRAMS**

To see complete photometric reports or download .ies files for this product, visit [www.hydrel.com](http://www.hydrel.com)

**FEATURES & SPECIFICATIONS**

**MATERIAL:** Body cast from 356-T6 Aluminum, Cap knuckle machined from 6061-T6 Aluminum.  
**LIGHT SOURCE:** Proprietary high output LEDs. Units have near constant light output when supplied with aaVAC to combat voltage drop. All within 3 MacAdam ellipses.  
**VOLTAGE:** MVOLT  
**DISTRIBUTION:** 15DEG, 20DEG, 25DEG, 30DEG, 35DEG, 40DEG, 45DEG, 50DEG, 55DEG  
**LENS:** FLC - Cut from heat strengthened borosilicate glass for superior clarity and strength. WSL - Molded heat strengthened borosilicate glass for superior clarity and strength.  
**MOUNTING:** Knuckle to mount to 7/8" thru hole.  
**ELECTRICAL:** Integral MVOLT LED driver. 120VAC Dimmable with standard Triac dimming system.  
**FINISH:** Super durable polyester TGIC powder coat finish (standard). Optional Zinc undercoat for harsh environments.

**FEATURES:** Any combination of up to 2 lens accessories/color filter/shielding can be specified in any cap style and are held securely by a removable stainless steel clip ring.  
**LISTING:** cCSAus, Wet location. Laboratory tests conducted by CSA to UL Standards UL-1598, UL-8750 and UL-1838.  
**WARRANTY:** 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://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.



**ACCENT MOUNTING ACCESSORIES**

		Part #
	<ul style="list-style-type: none"> <li>JBA/JBB Junction box for direct fixture mounting</li> <li>Available in cast bronze or aluminum</li> <li>Used where splicing is required for single or multiple fixtures Drilled and tapped to specified requirements</li> <li>May be Ground or wall mounted</li> </ul>	Examples: JBA 34E 34F 78G BL JBB 12A 12C 78G See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>ARJB Architectural Junction Box</li> <li>Available in cast aluminum</li> <li>For direct mounting of a single lighting fixture</li> <li>Designed for architectural and landscape application Recommended for mounting on a rigid metallic conduit</li> </ul>	Example: ARJB 12B 78C BL See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>CN4 wall plate canopy</li> <li>Available in aluminum or brass</li> <li>Shape rectangular to mount over a standard switch box</li> <li>Thru hole sized for standard 1/2 pipe thread</li> <li>Fixtures secured via locking nut (for thru hole) or threaded knuckle</li> </ul>	Example: CN4 78C BL See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>CN5 wall mount canopy</li> <li>Available in Aluminum, Brass or stainless steel</li> <li>Shape round to mount over a standard 4" round or octagonal box. Thru hole sized for standard 1/2 pipe thread</li> <li>Fixture secured via locking nut (for thru hole) or threaded knuckle</li> </ul>	Example: CN5 78C BL See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>WMC wall mount cover</li> <li>Available in cast aluminum</li> <li>Wall mount cover or mounting fixture over wall box (by others)</li> </ul>	Examples: WMC 78C BL See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>WMSA wall mount splice access</li> <li>Available in cast aluminum</li> <li>Wall mount with splice access plate for mounting a variety of fixtures</li> <li>Integral splice access compartment for easy fixture connections</li> <li>To be mounted over a recessed wall box</li> </ul>	Example: WMSA 78C BL See <a href="#">spec sheet</a> for more options






**ACCENT MOUNTING ACCESSORIES**

		Part #
	<ul style="list-style-type: none"> <li>• TRA/TRB tree mount junction box</li> <li>• Available in cast aluminum or bronze Includes a splice box with a mounting plate</li> <li>• Placement of small accent fixtures around or on a structure, like a tree</li> </ul>	Examples: TRA 12B 78C BL TRB 12B 78C See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>• TRAS/TRBS tree mount junction box with strap.</li> <li>• Available in cast aluminum or bronze</li> <li>• Includes one or more splice boxes with a polypropylene strap</li> <li>• Placement of small accent fixtures around the trunk or branch of a tree</li> </ul>	Examples: 2TRAS 12B 78C DDB 1TRBS 12B 78C See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>• STK ground mounting stake</li> <li>• Low voltage portable installations only</li> <li>• UV Stable plastic</li> </ul>	Example: STK See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>• Post Mounts PM60A, PM60C and PM60D Ground Mounting posts</li> <li>• Available in aluminum or brass</li> <li>• Suitable for fixtures with 1/2" knuckles</li> <li>• Fixtures are secured with a locking nut</li> <li>• Used with low voltage fixtures</li> <li>• Optional stems are offered in lengths from 3" to 36"</li> </ul>	Examples: PM60A S3 BL PMBR60C S12BR BRS PM60D BL See <a href="#">spec sheet</a> for more options
	<ul style="list-style-type: none"> <li>• EA-Extended Arms</li> <li>• Available in lengths 12", 24" and 36"</li> <li>• Available in angles 45° and 90°</li> <li>• Material available in aluminum</li> <li>• Extended arms are compatible with WMC and WMSA wall mounts</li> </ul>	Examples: WMC EA12 12C BL WMSA EA4512 12C BRS
	<ul style="list-style-type: none"> <li>• Tree Ring TRAR 2FX, TRAR 3FX, TRAR 4XF, TRAR 5FX, TRAR 6FX</li> <li>• Stainless Steel Ring and Hardware</li> <li>• Can accommodate trees between 10" to 15" in diameter</li> <li>• Available in 2, 3, 4, 5 and 6 fixture configurations</li> </ul>	Examples: TRAR 5FX 12S 12C BL TRAR 3FX 12S 12C BRS Note: TRAR is sold separately. See <a href="#">spec sheets</a> for options



**PINE INTERNAL ACCESSORIES**

Internal Accessories can be ordered separate and are field replaceable

	<p><b>INTERNAL HONEYCOMB LOUVER</b></p> <ul style="list-style-type: none"> <li>• Hexagonal cell louver with 45° cut-off</li> <li>• includes retaining ring</li> </ul>	<p>Example: IHL PINE</p>
	<p><b>INTERNAL ACCESSORY LENSES</b></p> <ul style="list-style-type: none"> <li>• L1 Prismatic Lens</li> <li>• L2 Linear Spread Lens</li> <li>• L3 Softening Lens</li> <li>• includes retaining ring</li> </ul>	<p>Examples: LAPINE L1 LAPINE L2 LAPINE L3</p>
	<p><b>INTERNAL COLORED FILTERS</b></p> <ul style="list-style-type: none"> <li>• FA Amber</li> <li>• FG Green</li> <li>• FGD Green Dichroic</li> <li>• FLB Light Blue</li> <li>• FM Mercury Vapor</li> <li>• FMB Medium Blue</li> <li>• FMBD Medium Blue Dichroic</li> <li>• FR Red</li> <li>• FRD Red Dichroic</li> <li>• includes retaining ring</li> </ul>	<p>Examples: CFPINE FA CFPINE FG CFPINE FGD CFPINE FLB CFPINE FM CFPINE FMB CFPINE FMBD CFPINE FR CFPINE FRD</p>



d<sup>series</sup>

## D-Series Size 2 LED Floodlight

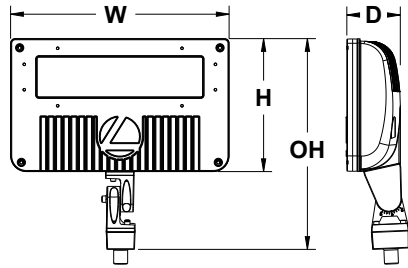


Catalog Number
Notes
Type

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

### Specifications

<b>EPA:</b>	0.8 ft <sup>2</sup> (0.05 m <sup>2</sup> )
<b>Depth:</b>	3-1/8" (8.0 cm)
<b>Width:</b>	12-7/8" (32.6 cm)
<b>Height:</b>	7-3/4" (19.8 cm)
<b>Overall Height</b>	12" (30.5 cm)
<b>Weight:</b>	10.5 lbs (4.8 kg)



### Introduction

The D-Series floodlights feature a site-wide offering to meet specifier's every floodlighting need in application. The D-Series flood offers three sizes delivering 3,000 to 27,000 lumens. Available with seven precision optics, three mountings and three color temperatures, D-Series floodlights offer vast design capabilities while delivering significant energy savings and long life.

The DSXF2 delivers 7,000 to 12,000 lumens, meeting a large breadth of illumination requirements for design and renovation when replacing 175w and 250W HID floodlights. All configurations are made in North America allowing for quick delivery.

### Ordering Information

**EXAMPLE: DSXF2 LED P1 40K MSP MVOLT THK DDBXD**

DSXF2 LED	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish (required)			
DSXF2 LED	P1	30K 3000K	NSP Narrow spot	MVOLT <sup>2</sup>	THK Knuckle with 1/2" NPS threaded pipe	PE Photocontrol, button style <sup>6,7</sup>	DDBXD Dark bronze			
	P2	40K 4000K	MSP Medium spot					208 <sup>3</sup>	PEX Photocontrol external threaded adjustable <sup>7</sup>	DBLXD Black
	P3 <sup>1</sup>	50K 5000K	MFL Medium flood					240 <sup>3</sup>	DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)	DNAXD Natural aluminum
			FL Flood	277 <sup>3</sup>	IS Integral slipfitter (fits 2-3/8" O.D. tenon) <b>Shipped separately</b>	SF Single fuse (120, 277, 347V) <sup>3</sup>	DWHXD White			
			WFL Wide flood	347 <sup>3</sup>				DF Double fuse (208, 240, 480V) <sup>3</sup>		
			WFR Wide flood, rectangular	480 <sup>3,4</sup>				SPD10KV Separate surge protection		
			HMF Horizontal flood		FTS CG6 Tenon slipfitter (2-7/8" O.D. YKC62 required) <sup>5</sup>	<b>Shipped separately<sup>5</sup></b>				
					DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required) <sup>5</sup>	UBV Upper/bottom visor (universal)				
						FV Full visor				
						VG Vandal guard				

### Accessories

Ordered and shipped separately.

DSXF1/2TS DDBXD U	Slipfitter for 1-1/4" to 2-3/8" O.D. tenons; mates with 1/2" threaded knuckle (specify finish)
FTS CG6 DDBXD U	Slipfitter for 2-3/8" to 2-7/8" O.D. tenons; mates with yoke mount (specify finish)
FRWB DDBXD U	Radius wall bracket, 2-3/8" O.D. tenon (specify finish)
FSPB DDBXD U	Steel square pole bracket, 2-3/8" O.D. tenon (specify finish)
DSXF2UBV DDBXD U	Upper/bottom visor accessory (specify finish)
DSXF2FV DDBXD U	Full visor accessory (specify finish)
DSXF2VG U	Vandal guard accessory

For more mounting options, visit our [Floodlighting Accessories](#) pages.

### Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number	CI Code
DSXF2 LED P1 40K WFL MVOLT THK DDBXD	DSXF2 LED P1 40K	*240TJ9
DSXF2 LED P1 50K WFL MVOLT THK DDBXD	DSXF2 LED P1 50K	*240TJ8
DSXF2 LED P2 40K WFL MVOLT THK DDBXD	DSXF2 LED P2 40K	*240THT
DSXF2 LED P2 50K WFL MVOLT THK DDBXD	DSXF2 LED P2 50K	*240TJC
DSXF1/2 Slip-fitter Tenon Accessory DDBXD	DSXF1/2TS DDBXD U	*216G5K

### NOTES

- Not available with PE (use PEX).
- MVOLT driver operates on line voltage from 120-277V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with PE and PEX.
- Also available as accessories; see accessories information at left.
- Not available in performance package P3. Specify PEX for higher ambient temperatures.
- Photocontrol (PE, PEX) requires 120, 208, 240, 277 or 347 voltage option.



## Mounting, Options and Accessories



**THK - Knuckle with  
1/2" NPS threaded pipe**



**YKC62 - Yoke with 50 cord**  
W= 4-3/4" (12.0 cm)  
H= 4-1/4" (10.7 cm)  
D= 2-1/4" (5.7 cm)



**IS - Integral slipfitter**  
H= 2-1/2" (6.3 cm)  
ID= 2-3/8" (6.0 cm)  
OD= 3-1/2" (8.8 cm)



**UBV - Upper/bottom visor**  
W= 10" (25.4 cm)  
H= 2-1/2" (6.3 cm)  
D= 3" (7.6 cm)



**FV - Full visor**  
W= 10" (25.4 cm)  
H= 2-1/2" (6.3 cm)  
D= 3" (7.6 cm)



**VG - Vandal guard**  
W= 10-1/2" (26.6 cm)  
H= 4" (10.1 cm)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek and compact design of the D-Series floodlights reflects the embedded high performance LED technology while offering a clean aesthetic suitable for specification and general purpose floodlighting applications. DSXF2 delivers 7,000 to 12,000 lumens and is ideal for commercial lighting applications including new construction and replacing 175W and 250W HID floodlights. Three sizes are available with seven precision optics allowing for maximum design versatility. DSXF2 is ideal for general area, security, facade, flagpole and signage lighting applications.

### CONSTRUCTION

The DSXF2 LED floodlight features rugged die-cast aluminum construction with integral heat sink fins that optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. The housing and lens frame are completely sealed against moisture and environmental contaminants providing an IP66 rating. Low EPA (0.8 ft2) for optimized wind loading. DSXF2 is 1.5G vibration rated per ANSI C136.31.

### FINISH

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

### OPTICS

Seven unique precision-molded vacuum-metalized specular reflectors are engineered for superior field-to-beam ratios, uniformity and spacing. Light engines are available in 3000K, 4000K or 5000K (minimum 70 CRI) configurations. Optional visors offer additional versatility when shielding is required.

### ELECTRICAL

Light engine(s) consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Standard 6KV surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Integral adjustable knuckle with 1/2-14 NPT threaded pipe, tenon slipfitter, or yoke mounting, facilitates quick and easy installation to a variety of mounting accessories. DSXF3 features a glass lens enclosure that is protected to IP66 and is rated for lighting aimed up above 90°. Suitable for mounting within 4 feet of ground.

### LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. 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](http://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](http://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.