Compact floodlight

Type: F1
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:

Housing: Luminaire constructed of a one piece die-cast aluminum housing. LED module paired with inner reverse-tapered casting to provide maximum heat transfer to outer housing. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Optical system consists of a reflector of pure anodized aluminum. The lens and optical assembly are secured by a die cast aluminum trim ring using (3) stainless steel captive fasteners.

Mounting: Provided with two piece die-cast aluminum canopy supplied with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box. Die-cast aluminum swivel.

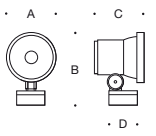
Electrical: 48.2W LED luminaire, 51 total system watts, -20°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 4000K with a >80 CRI. Available in 3000K (>80 CRI); add suffix K3 to order.
Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data in this catalog is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards for wet locations.
Protection class IP65.

Weight: 6.9 lbs.

Luminaire Lumens: 4236



Compact floodlight · **narrow beam**

	Lamp	β	A	B	C	D				
7659 LED	48.2 W LED	22°	9⅛	12	8⅝	5⅛	**758**	**721**	**775**	**065**

β = Beam angle · 180° glare shield · 360° glare shield · louver · flat beam

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com

Compact floodlight

Type: F2
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:

Housing: Luminaire constructed of a one piece die-cast aluminum housing. LED module paired with inner reverse-tapered casting to provide maximum heat transfer to outer housing. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Optical system consists of a reflector of pure anodized aluminum. The lens and optical assembly are secured by a die cast aluminum trim ring using (3) stainless steel captive fasteners.

Mounting: Provided with two piece die-cast aluminum canopy and die-cast aluminum swivel. Mounts directly to a custom BEGA 538 recessed wiring box. This box can be shipped ahead of the luminaire.

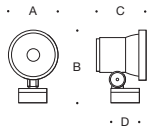
Electrical: 6.5W LED luminaire, 8.2 total system watts, -40°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. Standard LED color temperature is 4000K with an 80 CRI. Available in 3000K (80 CRI); add suffix K3 to order.
Note: Due to the dynamic nature of LED technology, LED luminaire data in this catalog is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards for wet locations. Protection class IP65.

Weight: 2.0 lbs.

Luminaire Lumens: 333
Tested in accordance with LM-79-08



Compact floodlight · **wide beam**

	Lamp	β	A	B	C	D		
7602LED.538	6.5W LED	51°	4⅛	5⅞	4⅜	3½	**755**	**050**

β = Beam angle 180° glare shield flat beam

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com

Wall luminaires with cutoff optics

Housing: Constructed of copper free die-cast aluminum alloy. The housing uses stainless steel inserts for enclosure attachment. Mounts over a standard 3½" or 4" octagonal wiring box. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Tempered, matte glass lens. One piece die-cast, copper free, louvered, aluminum face plate secured to the housing with four captive socket head, stainless steel screws. Semi specular, anodized aluminum internal reflector. Fully gasketed for water tight operation using a silicone rubber gasket.

Electrical: 26W LED luminaire, 32 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order

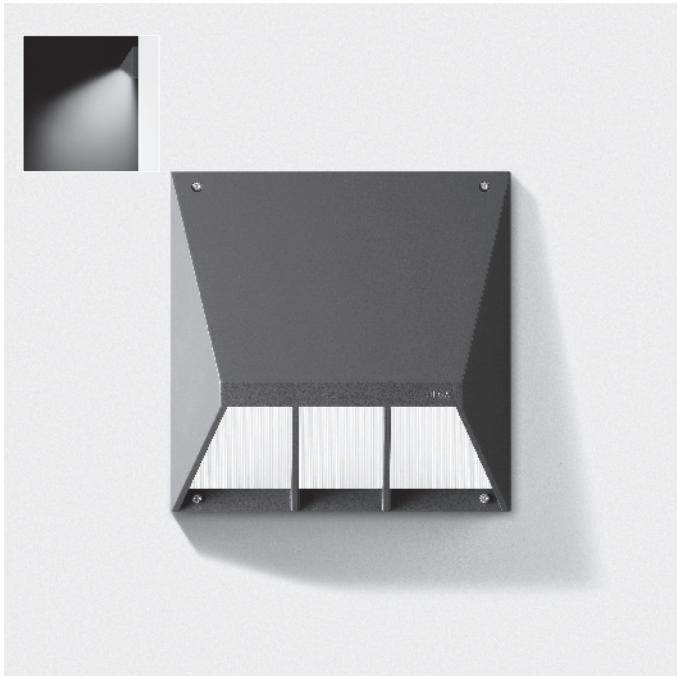
CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

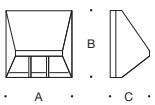
Weight: 4.0 lbs.

Luminaire Lumens: 1124

Tested in accordance with LM-79-08

Type: W1
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:





	Lamp	A	B	C
2256 LED	26W LED	7⅞	7⅞	4½

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com

D-Series Size 2
LED Area Luminaire

Catalog Number

Notes

Type W4

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

Specifications

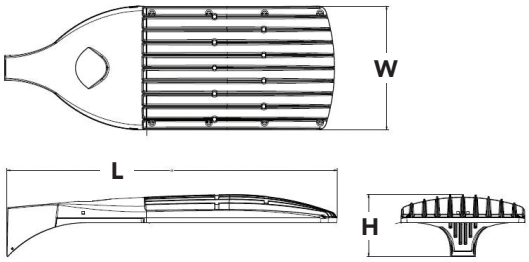
EPA: 2.0 ft² (0.19 m²)

Length: 40" (101.6 cm)

Width: 15" (38.1 cm)

Height: 7-1/4" (18.4 cm)

Weight (max): 36 lbs (16.3 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The Size 2 is ideal for replacing 400-1000W metal halide in area lighting applications with energy savings of up to 80% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX2 LED 80C 1000 40K T4M MVOLT SPA DDBXD

DSX2 LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
DSX2 LED	**Forward optics** 80C 80 LEDs (four engine) 100C 100 LEDs (four engines) **Rotated optics** [1] 90C 90 LEDs	530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T1S Type I Short T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium T5VS Type V Very Short T5S Type V Short T5M Type V Medium T5W Type V Wide	MVOLT [2] 120 [2] 208 [2] 240 [2] 277 [2] 347 480	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor [3] RPUMBA Round pole universal mounting adaptor [3] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) [4]

Control options

Shipped installed

PER	NEMA twist-lock receptacle only (no controls) [5]
PER5	Five-wire receptacle only (no controls) [5,6]
PER7	Seven-wire receptacle only (no controls) [5,6]
DMG	0-10V dimming driver (no controls) [7]
DCR	Dimmable and controllable via ROAM® (no controls) [8]
DS	Dual switching [9,10]
PIRH	Motion sensor, 15-30' mounting height [11]

BL30	Bi-level switched dimming, 30% [10,12]
BL50	Bi-level switched dimming, 50% [10,12]
PNMTDD3	Part night, dim till dawn [12]
PNMT5D3	Part night, dim 5 hrs [12]
PNMT6D3	Part night, dim 6 hrs [12]
PNMT7D3	Part night, dim 7 hrs [12]

Other options

Shipped installed

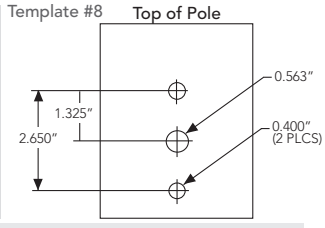
HS	House-side shield [13]
SF	Single fuse (120, 277, 347V) [2]
DF	Double fuse (208, 240, 480V) [2]
L90	Left rotated optics
R90	Right rotated optics

Finish *(required)*

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

Drilling

Template #8 Top of Pole



DSX2 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	**DM29AS**	2 at 90° *
DM28AS	2 at 180°	**DM39AS**	3 at 90° *
DM49AS	4 at 90° *	**DM32AS**	3 at 120° **

Example: SSA 20 4C **DM19AS** DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.
**Round pole top must be 3.25" O.D. minimum.*
***For round pole mounting (RPA) only.*

Accessories

Ordered and shipped separately.

Controls & Shields

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [14]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [14]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [14]
SC U	Shorting cap [14]
DSX2HS 80C U	House-side shield for 80 LED unit
DSX2HS 90C U	House-side shield for 90 LED unit
DSX2HS 100C U	House-side shield for 100 LED unit
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish)
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [4]

For more control options, visit DTL and ROAM online.

Tenon Mounting Slipfitter **

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

NOTES
1. Rotated optics option(L90, R90) required for 90C.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
3. Available as a separate combination accessory: PUMBA (finish) U. Round pole must have 4" O.D. minimum; 1.5 G vibration load rating per ANCI C136.31.
4. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" O.D. mast arm (not included).
5. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.
6. If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.
7. 347 or 480 voltage option with DMG requires 1000 mA.
8. Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. Not available with PIRH, DS, BL30, BL50, PER5, PER7, or part night options (PNMTxxx).
9. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. Not available with 80C 530, 90C 530, PER, PER5, PER7, DCR, BL30, BL50, or part night options (PNMTxxx).
10. Requires an additional switched line.
11. Specifies the SensorSwitch SBGR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with BL30, BL50 or DCR.
12. Dimming driver standard. Not available with DCR, DS, or PIRH.
13. Also available as a separate accessory; see Accessories information.
14. Requires luminaire to be specified with PER, PER5 or PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

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.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80C (80 LEDs)	530 mA	137 W	T1S	14,438	3	0	3	108.1	15,360	3	0	3	115.1	15,415	3	0	3	115.5	10,752	2	0	2	78.5
			T2S	14,172	3	0	3	106.2	15,077	3	0	3	112.9	15,131	3	0	3	113.3	10,554	2	0	2	77.0
			T2M	14,196	3	0	3	106.3	15,102	3	0	3	113.1	15,156	3	0	3	113.5	10,571	2	0	2	77.2
			T3S	14,165	3	0	3	106.1	15,069	3	0	3	112.9	15,123	3	0	3	113.3	10,548	2	0	2	77.0
			T3M	14,193	3	0	4	106.3	15,099	3	0	4	113.1	15,153	3	0	4	113.5	10,569	2	0	2	77.1
			T4M	13,736	3	0	4	102.9	15,067	3	0	4	112.9	15,121	3	0	4	113.3	10,547	2	0	2	77.0
			TFTM	14,424	3	0	4	108.0	15,345	3	0	4	114.9	15,400	3	0	4	115.4	10,741	1	0	2	78.4
			T5VS	14,980	5	0	1	112.2	15,936	5	0	1	119.4	15,993	5	0	1	119.8	11,155	3	0	0	81.4
			T5S	14,972	4	0	2	112.1	15,927	4	0	2	119.3	15,985	4	0	2	119.7	11,149	3	0	0	81.4
			T5M	14,900	5	0	3	111.6	15,851	5	0	3	118.7	15,908	5	0	3	119.2	11,096	3	0	2	81.0
			T5W	14,713	5	0	3	110.2	15,652	5	0	3	117.2	15,709	5	0	3	117.7	10,957	3	0	2	80.0
	700 mA	188 W	T1S	17,944	3	0	3	98.1	19,089	3	0	3	104.4	19,158	3	0	3	104.7	13,362	2	0	2	71.1
			T2S	17,613	3	0	3	96.3	18,738	3	0	3	102.4	18,805	3	0	3	102.8	13,116	2	0	2	69.8
			T2M	17,643	3	0	3	96.5	18,769	3	0	3	102.6	18,836	3	0	3	103.0	13,138	2	0	2	69.9
			T3S	17,604	3	0	3	96.3	18,728	3	0	3	102.4	18,795	3	0	3	102.8	13,110	2	0	2	69.7
			T3M	17,639	3	0	4	96.4	18,764	3	0	4	102.6	18,832	3	0	4	103.0	13,135	2	0	3	69.9
			T4M	17,071	3	0	4	93.3	18,725	3	0	4	102.4	18,792	3	0	4	102.7	13,108	2	0	2	69.7
			TFTM	17,926	3	0	4	98.0	19,071	3	0	4	104.3	19,139	3	0	4	104.6	13,349	2	0	2	71.0
			T5VS	18,617	5	0	1	101.8	19,805	5	0	1	108.3	19,876	5	0	1	108.7	13,864	3	0	1	73.7
			T5S	18,607	4	0	2	101.7	19,794	4	0	2	108.2	19,866	4	0	2	108.6	13,856	3	0	1	73.7
			T5M	18,518	5	0	3	101.2	19,700	5	0	3	107.7	19,771	5	0	3	108.1	13,790	3	0	2	73.4
			T5W	18,286	5	0	3	100.0	19,453	5	0	3	106.4	19,523	5	0	3	106.7	13,617	4	0	2	72.4
	1000 mA	282 W	T1S	24,339	3	0	3	85.5	25,892	3	0	3	90.9	25,985	3	0	3	91.3	18,125	2	0	2	64.3
			T2S	23,891	3	0	3	83.9	25,416	3	0	3	89.3	25,507	3	0	3	89.6	17,791	3	0	3	63.1
			T2M	23,931	3	0	3	84.1	25,458	3	0	4	89.4	25,550	3	0	4	89.7	17,821	3	0	3	63.2
			T3S	23,879	3	0	3	83.9	25,403	3	0	3	89.2	25,494	3	0	3	89.5	17,782	2	0	2	63.1
			T3M	23,925	3	0	4	84.0	25,452	3	0	4	89.4	25,544	3	0	4	89.7	17,817	3	0	3	63.2
			T4M	23,155	3	0	4	81.3	25,399	3	0	4	89.2	25,490	3	0	4	89.5	17,779	2	0	3	63.0
			TFTM	24,315	3	0	4	85.4	25,867	3	0	4	90.9	25,960	3	0	4	91.2	18,107	2	0	3	64.2
			T5VS	25,252	5	0	1	88.7	26,864	5	0	1	94.4	26,960	5	0	1	94.7	18,805	3	0	1	66.7
			T5S	25,238	5	0	2	88.6	26,849	5	0	2	94.3	26,946	5	0	2	94.6	18,794	3	0	1	66.6
			T5M	25,118	5	0	3	88.2	26,721	5	0	3	93.9	26,817	5	0	3	94.2	18,705	4	0	2	66.3
			T5W	24,803	5	0	4	87.1	26,386	5	0	4	92.7	26,481	5	0	4	93.0	18,470	4	0	2	65.5
100C (100 LEDs)	530 mA	175 W	T1S	17,592	3	0	3	103.3	18,715	3	0	3	109.8	18,782	3	0	3	110.2	13,100	2	0	2	74.9
			T2S	17,268	3	0	3	101.3	18,370	3	0	3	107.8	18,436	3	0	3	108.2	12,859	2	0	2	73.5
			T2M	17,297	3	0	3	101.5	18,401	3	0	3	108.0	18,467	3	0	3	108.4	12,881	2	0	2	73.6
			T3S	17,259	3	0	3	101.3	18,361	3	0	3	107.8	18,427	3	0	3	108.2	12,853	2	0	2	73.4
			T3M	17,293	3	0	4	101.5	18,397	3	0	4	108.0	18,463	3	0	4	108.4	12,878	2	0	3	73.6
			T4M	16,736	3	0	4	98.2	18,358	3	0	4	107.7	18,424	3	0	4	108.1	12,851	2	0	2	73.4
			TFTM	17,575	3	0	4	103.2	18,697	3	0	4	109.7	18,764	3	0	4	110.1	13,088	2	0	2	74.8
			T5VS	18,252	5	0	1	107.1	19,417	5	0	1	114.0	19,487	5	0	1	114.4	13,592	3	0	1	77.7
			T5S	18,242	4	0	2	107.1	19,406	4	0	2	113.9	19,476	4	0	2	114.3	13,584	3	0	1	77.6
			T5M	18,155	5	0	3	106.6	19,314	5	0	3	113.4	19,383	5	0	3	113.8	13,520	3	0	2	77.3
			T5W	17,927	5	0	3	105.2	19,071	5	0	3	111.9	19,140	5	0	3	112.3	13,350	4	0	2	76.3
	700 mA	232 W	T1S	22,078	3	0	3	97.1	23,487	3	0	3	103.3	23,571	3	0	3	103.7	16,441	2	0	2	70.9
			T2S	21,671	3	0	3	95.4	23,055	3	0	3	101.4	23,137	3	0	3	101.8	16,138	2	0	2	69.6
			T2M	21,707	3	0	3	95.5	23,093	3	0	3	101.6	23,176	3	0	3	102.0	16,165	2	0	3	69.7
			T3S	21,660	3	0	3	95.3	23,043	3	0	3	101.4	23,126	3	0	3	101.8	16,130	2	0	2	69.5
			T3M	21,702	3	0	4	95.5	23,088	3	0	4	101.6	23,171	3	0	4	102.0	16,161	2	0	3	69.7
			T4M	21,004	3	0	4	92.4	23,039	3	0	4	101.4	23,122	3	0	4	101.7	16,127	2	0	3	69.5
			TFTM	22,056	3	0	4	97.1	23,464	3	0	4	103.2	23,549	3	0	4	103.6	16,425	2	0	2	70.8
			T5VS	22,906	5	0	1	100.8	24,368	5	0	1	107.2	24,456	5	0	1	107.6	17,058	3	0	1	73.5
			T5S	22,894	4	0	2	100.7	24,355	4	0	2	107.2	24,442	4	0	2	107.6	17,048	3	0	1	73.5
			T5M	22,784	5	0	3	100.3	24,239	5	0	3	106.7	24,326	5	0	3	107.0	16,967	4	0	2	73.1
			T5W	22,498	5	0	3	99.0	23,935	5	0	3	105.3	24,021	5	0	3	105.7	16,754	4	0	2	72.2
	1000 mA	360 W	T1S	28,465	3	0	3	80.2	31,708	3	0	3	89.2	32,074	3	0	3	89.4	22,196	3	0	3	61.7
			T2S	29,257	3	0	3	81.9	31,125	3	0	3	87.7	31,237	3	0	3	87.5	21,787	3	0	3	60.5
			T2M	29,306	3	0	3	82.1	31,177	3	0	3	86.6	31,289	3	0	3	87.6	21,824	3	0	3	60.6
			T3S	29,243	3	0	3	81.9	31,109	3	0	3	87.7	31,221	3	0	3	87.4	21,776	3	0	3	60.5
			T3M	29,299	3	0	4	82.0	31,170	3	0	4	86.6	31,282	3	0	4	87.6	21,819	3	0	3	60.6
			T4M	28,356	3	0	4	78.9	31,104	3	0	4	86.2	31,216	3	0	4	87.4	21,773	3	0	3	60.5
			TFTM	29,777	3	0	4	83.4	31,678	3	0	4	88.1	31,792	3	0	4	89.0	22,175	3	0	3	61.6
			T5VS	30,924	5	0	1	86.6	32,898	5	0	1	92.9	33,017	5	0	1	92.4	23,029	4	0	1	64.0
			T5S	30,908	4	0	2	86.5	32,880	4	0	2	91.3	32,999	4	0	2	92.4	23,016	4	0	1	63.9
			T5M	30,760	5	0	3	86.1	32,723	5	0	3	92.2	32,841	5	0	3	92.0	22,906	4	0	2	63.6
			T5W	30,374	5	0	3	85.0	32,313	5	0	3	91.2	32,429	5	0	3	90.8	22,619	4	0	2	62.8

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
10°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.97

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX2 LED 80C 1000			
	1.0	0.95	0.92	0.86
	DSX2 LED 100C 700			
	1.0	0.98	0.97	0.96
	DSX2 LED 100C 1000			
	1.0	0.94	0.90	0.84

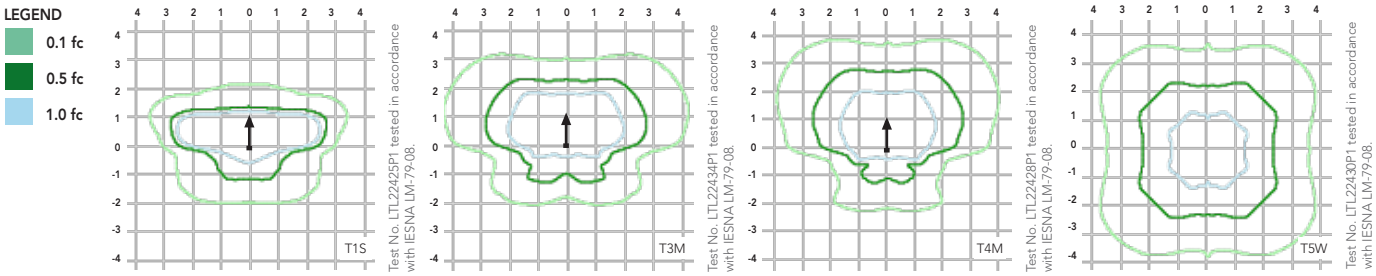
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
80	530	137W	1.15	0.66	0.53	0.51	0.39	0.28
	700	188W	1.58	0.92	0.81	0.73	0.55	0.41
	1000	282W	2.37	1.35	1.18	1.04	0.83	0.61
100	530	175W	1.47	0.86	0.76	0.68	0.51	0.38
	700	232W	1.95	1.13	0.99	0.88	0.67	0.49
	1000	360W	3.03	1.72	1.49	1.3	1.05	0.77

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 2 homepage.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').



FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

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. 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 (2.0 ft²) for optimized pole wind loading.

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

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 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 80, 90 or 100 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

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 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is 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. D670,857 S. International patent pending.

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

WARRANTY
Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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

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

Specifications subject to change without notice.

D-Series Size 2
LED Area Luminaire

d-series

Catalog Number

Notes

Type X1, X2, X3, and X4

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

Specifications

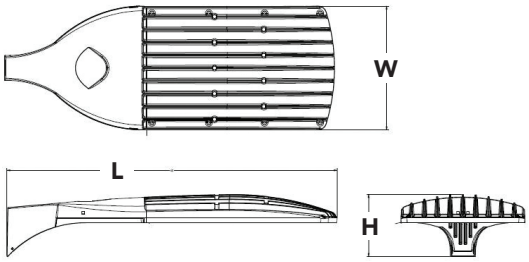
EPA: 2.0 ft² (0.19 m²)

Length: 40″ (101.6 cm)

Width: 15″ (38.1 cm)

Height: 7-1/4″ (18.4 cm)

Weight (max): 36 lbs (16.3 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The Size 2 is ideal for replacing 400-1000W metal halide in area lighting applications with energy savings of up to 80% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX2 LED 80C 1000 40K T4M MVOLT SPA DDBXD

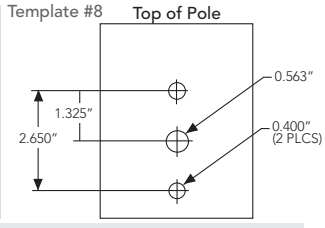
DSX2 LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
DSX2 LED	**Forward optics** 80C 80 LEDs (four engine) 100C 100 LEDs (four engines) **Rotated optics** [1] 90C 90 LEDs	530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T1S Type I Short T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium T5VS Type V Very Short T5S Type V Short T5M Type V Medium T5W Type V Wide	MVOLT [2] 120 [2] 208 [2] 240 [2] 277 [2] 347 480	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor [3] RPUMBA Round pole universal mounting adaptor [3] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) [4]

Control options				Other options	Finish *(required)*	
Shipped installed				**Shipped installed**	DDBXD	Dark bronze
PER	NEMA twist-lock receptacle only (no controls) [5]	BL30	Bi-level switched dimming, 30% [10,12]	HS House-side shield [13]	DBLXD	Black
PER5	Five-wire receptacle only (no controls) [5,6]	BL50	Bi-level switched dimming, 50% [10,12]	SF Single fuse (120, 277, 347V) [2]	DNAXD	Natural aluminum
PER7	Seven-wire receptacle only (no controls) [5,6]	PNMTDD3	Part night, dim till dawn [12]	DF Double fuse (208, 240, 480V) [2]	DWHXD	White
DMG	0-10V dimming driver (no controls) [7]	PNMT5D3	Part night, dim 5 hrs [12]	L90 Left rotated optics	DDBTXD	Textured dark bronze
DCR	Dimmable and controllable via ROAM® (no controls) [8]	PNMT6D3	Part night, dim 6 hrs [12]	R90 Right rotated optics	DBLBXD	Textured black
DS	Dual switching [9,10]	PNMT7D3	Part night, dim 7 hrs [12]		DNATXD	Textured natural aluminum
PIRH	Motion sensor, 15-30′ mounting height [11]				DWHGXD	Textured white

Drilling

Template #8 Top of Pole



DSX2 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	**DM29AS**	2 at 90° *
DM28AS	2 at 180°	**DM39AS**	3 at 90° *
DM49AS	4 at 90° *	**DM32AS**	3 at 120° **

Example: SSA 20 4C **DM19AS** DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.
**Round pole top must be 3.25″ O.D. minimum.*
***For round pole mounting (RPA) only.*

Accessories

Ordered and shipped separately.

Controls & Shields

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [14]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [14]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [14]
SC U	Shorting cap [14]
DSX2HS 80C U	House-side shield for 80 LED unit
DSX2HS 90C U	House-side shield for 90 LED unit
DSX2HS 100C U	House-side shield for 100 LED unit
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish)
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [4]

For more control options, visit DTL and ROAM online.

Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8″	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8″	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4″	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

NOTES
1. Rotated optics option(L90, R90) required for 90C.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
3. Available as a separate combination accessory: PUMBA (finish) U. Round pole must have 4″ O.D. minimum; 1.5 G vibration load rating per ANCI C136.31.
4. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8″ O.D. mast arm (not included).
5. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.
6. If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.
7. 347 or 480 voltage option with DMG requires 1000 mA.
8. Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. Not available with PIRH, DS, BL30, BL50, PER5, PER7, or part night options (PNMTxxx).
9. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. Not available with 80C 530, 90C 530, PER, PER5, PER7, DCR, BL30, BL50, or part night options (PNMTxxx).
10. Requires an additional switched line.
11. Specifies the SensorSwitch SBGR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with BL30, BL50 or DCR.
12. Dimming driver standard. Not available with DCR, DS, or PIRH.
13. Also available as a separate accessory; see Accessories information.
14. Requires luminaire to be specified with PER, PER5 or PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

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.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80C (80 LEDs)	530 mA	137 W	T1S	14,438	3	0	3	108.1	15,360	3	0	3	115.1	15,415	3	0	3	115.5	10,752	2	0	2	78.5
			T2S	14,172	3	0	3	106.2	15,077	3	0	3	112.9	15,131	3	0	3	113.3	10,554	2	0	2	77.0
			T2M	14,196	3	0	3	106.3	15,102	3	0	3	113.1	15,156	3	0	3	113.5	10,571	2	0	2	77.2
			T3S	14,165	3	0	3	106.1	15,069	3	0	3	112.9	15,123	3	0	3	113.3	10,548	2	0	2	77.0
			T3M	14,193	3	0	4	106.3	15,099	3	0	4	113.1	15,153	3	0	4	113.5	10,569	2	0	2	77.1
			T4M	13,736	3	0	4	102.9	15,067	3	0	4	112.9	15,121	3	0	4	113.3	10,547	2	0	2	77.0
			TFTM	14,424	3	0	4	108.0	15,345	3	0	4	114.9	15,400	3	0	4	115.4	10,741	1	0	2	78.4
			T5VS	14,980	5	0	1	112.2	15,936	5	0	1	119.4	15,993	5	0	1	119.8	11,155	3	0	0	81.4
			T5S	14,972	4	0	2	112.1	15,927	4	0	2	119.3	15,985	4	0	2	119.7	11,149	3	0	0	81.4
			T5M	14,900	5	0	3	111.6	15,851	5	0	3	118.7	15,908	5	0	3	119.2	11,096	3	0	2	81.0
			T5W	14,713	5	0	3	110.2	15,652	5	0	3	117.2	15,709	5	0	3	117.7	10,957	3	0	2	80.0
	700 mA	188 W	T1S	17,944	3	0	3	98.1	19,089	3	0	3	104.4	19,158	3	0	3	104.7	13,362	2	0	2	71.1
			T2S	17,613	3	0	3	96.3	18,738	3	0	3	102.4	18,805	3	0	3	102.8	13,116	2	0	2	69.8
			T2M	17,643	3	0	3	96.5	18,769	3	0	3	102.6	18,836	3	0	3	103.0	13,138	2	0	2	69.9
			T3S	17,604	3	0	3	96.3	18,728	3	0	3	102.4	18,795	3	0	3	102.8	13,110	2	0	2	69.7
			T3M	17,639	3	0	4	96.4	18,764	3	0	4	102.6	18,832	3	0	4	103.0	13,135	2	0	3	69.9
			T4M	17,071	3	0	4	93.3	18,725	3	0	4	102.4	18,792	3	0	4	102.7	13,108	2	0	2	69.7
			TFTM	17,926	3	0	4	98.0	19,071	3	0	4	104.3	19,139	3	0	4	104.6	13,349	2	0	2	71.0
			T5VS	18,617	5	0	1	101.8	19,805	5	0	1	108.3	19,876	5	0	1	108.7	13,864	3	0	1	73.7
			T5S	18,607	4	0	2	101.7	19,794	4	0	2	108.2	19,866	4	0	2	108.6	13,856	3	0	1	73.7
			T5M	18,518	5	0	3	101.2	19,700	5	0	3	107.7	19,771	5	0	3	108.1	13,790	3	0	2	73.4
			T5W	18,286	5	0	3	100.0	19,453	5	0	3	106.4	19,523	5	0	3	106.7	13,617	4	0	2	72.4
	1000 mA	282 W	T1S	24,339	3	0	3	85.5	25,892	3	0	3	90.9	25,985	3	0	3	91.3	18,125	2	0	2	64.3
			T2S	23,891	3	0	3	83.9	25,416	3	0	3	89.3	25,507	3	0	3	89.6	17,791	3	0	3	63.1
			T2M	23,931	3	0	3	84.1	25,458	3	0	4	89.4	25,550	3	0	4	89.7	17,821	3	0	3	63.2
			T3S	23,879	3	0	3	83.9	25,403	3	0	3	89.2	25,494	3	0	3	89.5	17,782	2	0	2	63.1
			T3M	23,925	3	0	4	84.0	25,452	3	0	4	89.4	25,544	3	0	4	89.7	17,817	3	0	3	63.2
			T4M	23,155	3	0	4	81.3	25,399	3	0	4	89.2	25,490	3	0	4	89.5	17,779	2	0	3	63.0
			TFTM	24,315	3	0	4	85.4	25,867	3	0	4	90.9	25,960	3	0	4	91.2	18,107	2	0	3	64.2
			T5VS	25,252	5	0	1	88.7	26,864	5	0	1	94.4	26,960	5	0	1	94.7	18,805	3	0	1	66.7
			T5S	25,238	5	0	2	88.6	26,849	5	0	2	94.3	26,946	5	0	2	94.6	18,794	3	0	1	66.6
			T5M	25,118	5	0	3	88.2	26,721	5	0	3	93.9	26,817	5	0	3	94.2	18,705	4	0	2	66.3
			T5W	24,803	5	0	4	87.1	26,386	5	0	4	92.7	26,481	5	0	4	93.0	18,470	4	0	2	65.5
100C (100 LEDs)	530 mA	175 W	T1S	17,592	3	0	3	103.3	18,715	3	0	3	109.8	18,782	3	0	3	110.2	13,100	2	0	2	74.9
			T2S	17,268	3	0	3	101.3	18,370	3	0	3	107.8	18,436	3	0	3	108.2	12,859	2	0	2	73.5
			T2M	17,297	3	0	3	101.5	18,401	3	0	3	108.0	18,467	3	0	3	108.4	12,881	2	0	2	73.6
			T3S	17,259	3	0	3	101.3	18,361	3	0	3	107.8	18,427	3	0	3	108.2	12,853	2	0	2	73.4
			T3M	17,293	3	0	4	101.5	18,397	3	0	4	108.0	18,463	3	0	4	108.4	12,878	2	0	3	73.6
			T4M	16,736	3	0	4	98.2	18,358	3	0	4	107.7	18,424	3	0	4	108.1	12,851	2	0	2	73.4
			TFTM	17,575	3	0	4	103.2	18,697	3	0	4	109.7	18,764	3	0	4	110.1	13,088	2	0	2	74.8
			T5VS	18,252	5	0	1	107.1	19,417	5	0	1	114.0	19,487	5	0	1	114.4	13,592	3	0	1	77.7
			T5S	18,242	4	0	2	107.1	19,406	4	0	2	113.9	19,476	4	0	2	114.3	13,584	3	0	1	77.6
			T5M	18,155	5	0	3	106.6	19,314	5	0	3	113.4	19,383	5	0	3	113.8	13,520	3	0	2	77.3
			T5W	17,927	5	0	3	105.2	19,071	5	0	3	111.9	19,140	5	0	3	112.3	13,350	4	0	2	76.3
	700 mA	232 W	T1S	22,078	3	0	3	97.1	23,487	3	0	3	103.3	23,571	3	0	3	103.7	16,441	2	0	2	70.9
			T2S	21,671	3	0	3	95.4	23,055	3	0	3	101.4	23,137	3	0	3	101.8	16,138	2	0	2	69.6
			T2M	21,707	3	0	3	95.5	23,093	3	0	3	101.6	23,176	3	0	3	102.0	16,165	2	0	3	69.7
			T3S	21,660	3	0	3	95.3	23,043	3	0	3	101.4	23,126	3	0	3	101.8	16,130	2	0	2	69.5
			T3M	21,702	3	0	4	95.5	23,088	3	0	4	101.6	23,171	3	0	4	102.0	16,161	2	0	3	69.7
			T4M	21,004	3	0	4	92.4	23,039	3	0	4	101.4	23,122	3	0	4	101.7	16,127	2	0	3	69.5
			TFTM	22,056	3	0	4	97.1	23,464	3	0	4	103.2	23,549	3	0	4	103.6	16,425	2	0	2	70.8
			T5VS	22,906	5	0	1	100.8	24,368	5	0	1	107.2	24,456	5	0	1	107.6	17,058	3	0	1	73.5
			T5S	22,894	4	0	2	100.7	24,355	4	0	2	107.2	24,442	4	0	2	107.6	17,048	3	0	1	73.5
			T5M	22,784	5	0	3	100.3	24,239	5	0	3	106.7	24,326	5	0	3	107.0	16,967	4	0	2	73.1
			T5W	22,498	5	0	3	99.0	23,935	5	0	3	105.3	24,021	5	0	3	105.7	16,754	4	0	2	72.2
	1000 mA	360 W	T1S	28,465	3	0	3	80.2	31,708	3	0	3	89.2	32,074	3	0	3	89.4	22,196	3	0	3	61.7
			T2S	29,257	3	0	3	81.9	31,125	3	0	3	87.7	31,237	3	0	3	87.5	21,787	3	0	3	60.5
			T2M	29,306	3	0	3	82.1	31,177	3	0	3	86.6	31,289	3	0	3	87.6	21,824	3	0	3	60.6
			T3S	29,243	3	0	3	81.9	31,109	3	0	3	87.7	31,221	3	0	3	87.4	21,776	3	0	3	60.5
			T3M	29,299	3	0	4	82.0	31,170	3	0	4	86.6	31,282	3	0	4	87.6	21,819	3	0	3	60.6
			T4M	28,356	3	0	4	78.9	31,104	3	0	4	86.2	31,216	3	0	4	87.4	21,773	3	0	3	60.5
			TFTM	29,777	3	0	4	83.4	31,678	3	0	4	88.1	31,792	3	0	4	89.0	22,175	3	0	3	61.6
			T5VS	30,924	5	0	1	86.6	32,898	5	0	1	92.9	33,017	5	0	1	92.4	23,029	4	0	1	64.0
			T5S	30,908	4	0	2	86.5	32,880	4	0	2	91.3	32,999	4	0	2	92.4	23,016	4	0	1	63.9
			T5M	30,760	5	0	3	86.1	32,723	5	0	3	92.2	32,841	5	0	3	92.0	22,906	4	0	2	63.6
			T5W	30,374	5	0	3	85.0	32,313	5	0	3	91.2	32,429	5	0	3	90.8	22,619	4	0	2	62.8

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
10°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.97

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX2 LED 80C 1000			
	1.0	0.95	0.92	0.86
	DSX2 LED 100C 700			
	1.0	0.98	0.97	0.96
	DSX2 LED 100C 1000			
	1.0	0.94	0.90	0.84

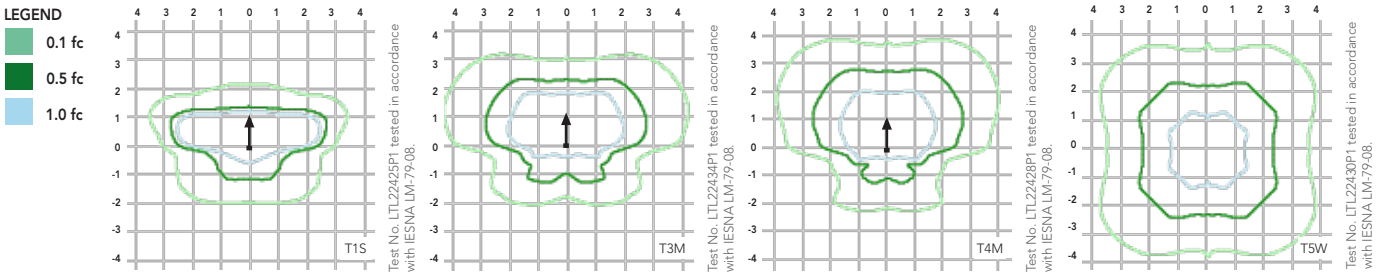
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
80	530	137W	1.15	0.66	0.53	0.51	0.39	0.28
	700	188W	1.58	0.92	0.81	0.73	0.55	0.41
	1000	282W	2.37	1.35	1.18	1.04	0.83	0.61
100	530	175W	1.47	0.86	0.76	0.68	0.51	0.38
	700	232W	1.95	1.13	0.99	0.88	0.67	0.49
	1000	360W	3.03	1.72	1.49	1.3	1.05	0.77

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 2 homepage.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').



FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

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. 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 (2.0 ft²) for optimized pole wind loading.

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

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 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 80, 90 or 100 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

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 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is 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. D670,857 S. International patent pending.

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

WARRANTY
Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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

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

Specifications subject to change without notice.

D-Series
LED Surface Canopy

Catalog Number

Notes

Type Z2

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

d-series

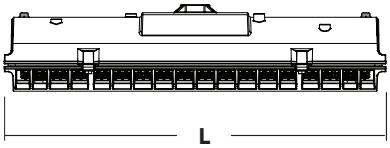
Specifications

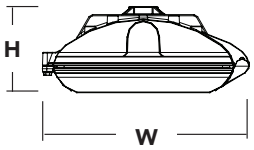
Length: 17-3/4" *(45.1 cm)*

Width: 8-1/2" *(21.6 cm)*

Height: 3-7/16" *(8.7 cm)*

Weight (max): 16 lbs *(7.3 kg)*





Introduction

The D-Series LED Surface Canopy luminaire is ideal for covered walkways or drive-thrus, semi-covered outdoor aisles, and walk-in coolers and freezers. Its five optical choices provide the design flexibility to potentially reduce luminaire counts while still meeting IES criteria, lowering overall energy consumption.

Its expected service life of over 100,000 hours (20 years of nighttime operation) combined with the available motion/ambient sensor offers an extremely low maintenance solution that yields quick payback.

Ordering Information

EXAMPLE: DSXSC LED 20C 700 40K T5M MVOLT SRM DWHXD

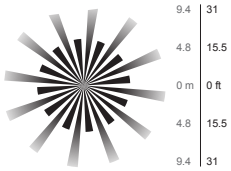
DSXSC LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Options	Finish *(required)*
DSXSC LED	10C 10 LEDs (one engine) [1,2] 20C 20 LEDs (two engines) 30C 30 LEDs (three engines)	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted[3]	T5E Type V, entryway [4] T5M Type V, medium T5W Type V, wide T5R Type V, rectangular ASY Asymmetric	MVOLT [5] 120 [5] 208 [5] 240 [5] 277 [5] 347 [6] 480 [6]	**Shipped included** SRM Surface mount	**Shipped installed** DMG 0-10V dimming driver (no controls) HS House-side shield (housing visor) [7] SF Single fuse (120, 277, 347V) [8,9] DF Double fuse (208, 240, 480V) [8,9] PIR360SS Motion/ambient sensor, 8–15' mounting height [9,10] PIRH360SS Motion/ambient sensor, 15–30' mounting height [9,10] SPD Separate surge protection [11] XAD XPoint Wireless enabled [12] CFMH Cover finish matches housing [13] **Shipped separately** BDS Bird shroud [7]	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze

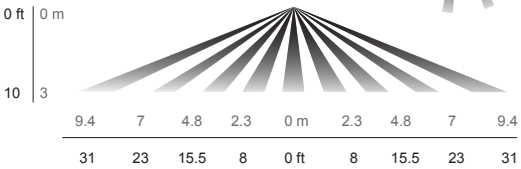
Motion Sensing

The motion/ambient sensor options (PIR360SS or PIRH360SS) have 360° of passive infrared sensing and adjustable bi-level dimming to save energy when there are no occupants.

TOP VIEW

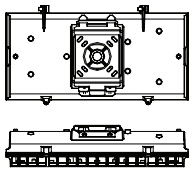


SIDE VIEW



Mounting Options

Surface Mounting



Accessories

Ordered and shipped separately.

DSXSCHS U	House-side shield (1 per light engine)
DSXSCBDSSJ DWHXD U	Bird shroud for SRM on surface J-box only, white (specify finish)

NOTES

1. Available with 700mA or 1000mA option only.
2. Not available with 347 or 480V.
3. AMBPC only available with 530mA or 700mA.
4. DesignLights Consortium qualified.
5. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
6. N/A with one light engine (10C). Only available with 700mA or 1000mA.
7. Also available as a separate accessory; see Accessories information at left.
8. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
9. Not available with XAD.
10. PIR360SS specifies the SensorSwitch SBOR-10-ODP control; PIRH360SS specifies the SensorSwitch SBOR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard.
11. See the electrical section on page 3 for more details.
12. Dimming driver standard. Available 120v or 277v only. Not available with fusing, PIR360SS or PIRH360SS.
13. Available with DNAXD or DDBXD only.

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

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. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current (mA)	Performance Package	System Watts	Dist. Type	30K (3000 K, 80 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 65 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	700 mA	10C 700--K	26W	ASY	1,792	0	0	1	69	2,253	1	0	1	87	2,428	1	0	1	93
				T5E	1,882	1	0	0	72	2,366	1	0	0	91	2,550	1	0	0	98
				T5M	1,889	1	0	0	73	2,375	2	0	0	91	2,560	2	0	0	98
				T5R	1,860	2	0	2	72	2,339	2	0	2	90	2,521	2	0	2	97
				T5W	1,771	2	0	1	68	2,226	2	0	1	86	2,399	2	0	1	92
	1000 mA	10C1000 --K	37W	ASY	2,444	1	0	1	66	3,074	1	0	1	83	3,314	1	0	1	90
				T5E	2,566	1	0	0	69	3,227	2	0	0	87	3,479	2	0	0	94
				T5M	2,576	2	0	0	70	3,241	2	0	1	88	3,493	2	0	1	94
				T5R	2,537	2	0	2	69	3,191	2	0	2	86	3,440	3	0	3	93
				T5W	2,414	2	0	1	65	3,037	2	0	1	82	3,274	3	0	1	88
20C (20 LEDs)	350 mA	20C 350 --K	25W	ASY	1,995	1	0	1	80	2,511	1	0	1	100	2,705	1	0	1	108
				T5E	2,095	1	0	0	84	2,637	1	0	0	105	2,840	2	0	0	114
				T5M	2,103	2	0	0	84	2,647	2	0	0	106	2,851	2	0	1	114
				T5R	2,071	2	0	2	83	2,607	2	0	2	104	2,808	2	0	2	112
				T5W	1,971	2	0	1	79	2,481	2	0	1	99	2,672	2	0	1	107
	530 mA	20C 530 --K	37W	ASY	2,803	1	0	1	76	3,526	1	0	1	95	3,799	1	0	1	103
				T5E	2,943	2	0	0	80	3,702	2	0	0	100	3,989	2	0	0	108
				T5M	2,955	2	0	1	80	3,717	2	0	1	100	4,005	2	0	1	108
				T5R	2,910	2	0	2	79	3,660	3	0	3	99	3,944	3	0	3	107
				T5W	2,770	2	0	1	75	3,483	3	0	1	94	3,754	3	0	1	101
	700 mA	20C 700 --K	46W	ASY	3,449	1	0	1	75	4,337	1	0	1	94	4,675	1	0	1	102
				T5E	3,621	2	0	0	79	4,554	2	0	0	99	4,909	2	0	0	107
				T5M	3,636	2	0	1	79	4,572	3	0	1	99	4,928	3	0	1	107
				T5R	3,580	3	0	3	78	4,502	3	0	3	98	4,853	3	0	3	106
				T5W	3,407	3	0	1	74	4,285	3	0	1	93	4,619	3	0	1	100
	1000 mA	20C 1000 --K	74W	ASY	4,632	1	0	1	63	5,828	1	0	1	79	6,283	1	0	2	85
				T5E	4,864	2	0	0	66	6,119	2	0	0	83	6,597	2	0	1	89
				T5M	4,883	3	0	1	66	6,143	3	1	1	83	6,623	3	0	1	90
				T5R	4,808	3	0	3	65	6,050	3	0	3	82	6,522	3	0	3	88
				T5W	4,577	3	0	1	62	5,758	3	0	2	78	6,207	3	0	2	84
30C (30 LEDs)	350 mA	30C 350 --K	35W	ASY	3,022	1	0	1	86	3,799	1	0	1	109	4,097	1	0	1	117
				T5E	3,172	2	0	0	91	3,989	2	0	0	114	4,302	2	0	0	123
				T5M	3,185	2	0	1	91	4,005	2	0	1	114	4,319	3	0	1	123
				T5R	3,137	2	0	2	90	3,944	3	0	3	113	4,253	3	0	3	122
				T5W	2,985	2	0	1	85	3,754	3	0	1	107	4,048	3	0	1	116
	530 mA	30C 530 --K	53W	ASY	4,239	1	0	1	80	5,333	1	0	1	101	5,748	1	0	1	108
				T5E	4,451	2	0	0	84	5,599	2	0	0	106	6,035	2	0	0	114
				T5M	4,468	3	0	1	84	5,622	3	0	1	106	6,059	3	0	1	114
				T5R	4,400	3	0	3	83	5,536	3	0	3	104	5,967	3	0	3	113
				T5W	4,188	3	0	1	79	5,269	3	0	1	99	5,679	3	0	1	107
	700 mA	30C 700 --K	67W	ASY	5,170	1	0	1	77	6,504	1	0	2	97	7,011	1	0	2	105
				T5E	5,428	2	0	0	81	6,829	3	0	1	102	7,362	3	0	1	110
				T5M	5,450	3	0	1	81	6,856	3	0	1	102	7,391	3	0	2	110
				T5R	5,367	3	0	3	80	6,752	3	0	3	101	7,278	3	0	3	109
				T5W	5,108	3	0	1	76	6,426	3	0	2	96	6,927	3	0	2	103
	1000 mA	30C 1000 --K	107W	ASY	6,775	1	0	2	63	8,520	2	0	2	80	9,187	2	0	2	86
				T5E	7,113	3	0	1	66	8,946	3	0	1	84	9,646	3	0	1	90
				T5M	7,141	3	0	1	67	8,982	3	0	2	84	9,685	3	0	2	91
				T5R	7,032	3	0	3	66	8,845	4	0	4	83	9,537	4	0	4	89
				T5W	6,693	3	0	2	63	8,418	4	0	2	79	9,077	4	0	2	85

Note: Available with phosphor-converted amber LEDs (nomenclature AMBPC). These LEDs produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files (for 530mA and 700mA drive currents only).

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	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.98

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
10C	700	26W	0.25	0.15	0.13	0.11	–	–
	1000	37W	0.37	0.21	0.18	0.16	–	–
20C	350	25W	0.23	0.13	0.12	0.10	–	–
	530	37W	0.33	0.19	0.17	0.14	–	–
	700	46W	0.43	0.25	0.22	0.19	0.15	0.11
	1000	74W	0.68	0.39	0.34	0.29	–	–
30C	350	35W	0.33	0.19	0.16	0.14	–	–
	530	53W	0.50	0.29	0.25	0.22	–	–
	700	67W	0.66	0.38	0.33	0.29	0.23	0.17
	1000	107W	1.01	0.58	0.50	0.44	–	–

Projected LED Lumen Maintenance

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

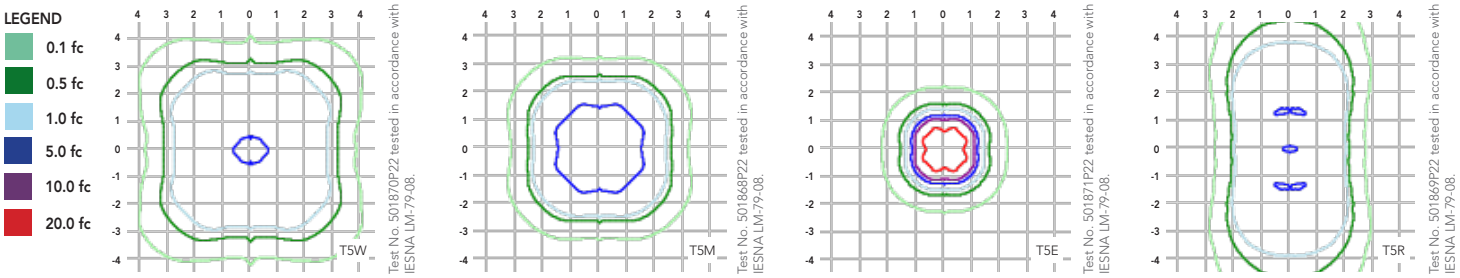
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSXSC LED 10C 1000			
	1.0	0.97	0.94	0.90
	DSXSC LED 30C 1000			
	1.0	0.93	0.89	0.80
	DSXSC LED 30C 700			
	1.0	0.98	0.97	0.95

Photometric Diagrams

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

Isofootcandle plots for the DSXSC LED 30C 700 40K. Distances are in units of mounting height (8').



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life, and easy-to-install design of the D-Series LED Surface Canopy luminaire make it the smart choice for canopy lighting in commercial, industrial and institutional applications with mounting heights of 8-15'.

CONSTRUCTION

Two-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 (IP66) and is suitable for hose-down.

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.

OPTICS

Precision-molded proprietary acrylic lenses provide five different photometric distributions suited to a variety of canopy and walkway applications. Light engines are available in 3000 K (80 min. CRI), 4000 K (70 min. CRI) or 5000 K (65 min. CRI) configurations.

ELECTRICAL

Light engines consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life. The electronic driver has a power factor of >90%, THD <20%, and a minimum 2.5 KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Mounts to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included); kit contains galvanized steel luminaire and outlet box plates and a full pad gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and plates are secured with captive screws. Supply leads are 12" in length as standard. For longer supply leads, please consult factory.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines and luminaire are IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product — Fuel Pump Canopy Luminaires category. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

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

Note: Specifications subject to change without notice.