D-Series
LED Surface Canopy

BAA

d#series

Catalog Number

Notes

Type

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

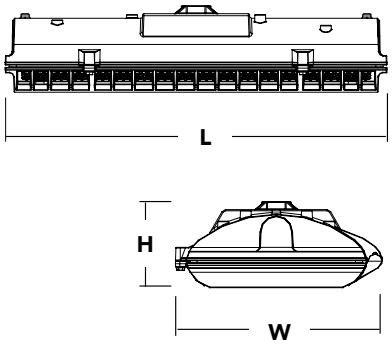
Specifications

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
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 (12-inch length supply leads)

Options

Shipped installed

HS	House-side shield (housing visor) [7]
SF	Single fuse (120, 277, 347V) [8]
DF	Double fuse (208, 240, 480V) [8]
SPD	Separate surge protection [9]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) [10,11]
PIR	Motion/ambient sensor for 8-15' mounting heights [12]
PIRH	Motion/ambient sensor for 15-30' mounting heights [12]
PIR3FC3V	Motion/ambient sensor for 8-15' mounting heights and for typical applications requiring daylight harvesting and Title 24 compliance [12]
PIRH3FC3V	Motion/ambient sensor for 15-30' mounting heights and typical applications requiring daylight harvesting and Title 24 compliance [12]

Shipped separately

BDS	Bird shroud [7]

Finish *(required)*

DWHXD	White
DNAXD	Natural aluminum
DDBXD	Dark bronze

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. See the electrical section on page 3 for more details.
10. DMG not available with all PIR options
11. Dimming driver standard. Available in layouts up to 30'. Not available with 347V or 480V. Not available with fusing.
12. PIR & PIR3FC3V specifies the Acuity Controls SBOR 10 ODP motion/ambient sensor, the PIRH & PIRH3FC3V specifies the Acuity Controls SBOR 6 ODP motion/ambient sensor.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08.

Light Engines	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 80 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 65 CRI)					AMBPC				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	700 mA	26W	ASY	2,601	0	0	1	100	2,793	1	0	1	107	2,810	1	0	1	108	2,253	1	0	1	87
			T5E	2,731	1	0	0	105	2,933	1	0	0	113	2,951	1	0	0	113	2,366	1	0	0	91
			T5M	2,742	1	0	0	105	2,945	2	0	0	113	2,963	2	0	0	114	2,376	2	0	0	91
			T5R	2,700	2	0	2	104	2,899	2	0	2	112	2,918	2	0	2	112	2,339	2	0	2	90
			T5W	2,570	2	0	1	99	2,760	2	0	1	106	2,777	2	0	1	107	2,226	2	0	1	86
	1000 mA	37W	ASY	3,647	1	0	1	99	3,917	1	0	1	106	3,941	1	0	1	107					
			T5E	3,830	1	0	0	104	4,113	2	0	0	111	4,138	2	0	0	112					
			T5M	3,846	2	0	0	104	4,130	2	0	1	112	4,156	2	0	1	112					
			T5R	3,786	2	0	2	102	4,066	2	0	2	110	4,091	3	0	3	111					
			T5W	3,604	2	0	1	97	3,870	2	0	1	105	3,894	3	0	1	105					
20C (20 LEDs)	350 mA	25W	ASY	2,798	1	0	1	112	3,004	1	0	1	120	3,023	1	0	1	121					
			T5E	2,938	1	0	0	118	3,155	1	0	0	126	3,174	2	0	0	127					
			T5M	2,950	2	0	0	118	3,168	2	0	0	127	3,188	2	0	1	128					
			T5R	2,905	2	0	2	116	3,119	2	0	2	125	3,139	2	0	2	126					
			T5W	2,765	2	0	1	111	2,969	2	0	1	119	2,987	2	0	1	119					
	530 mA	37W	ASY	4,041	1	0	1	109	4,339	1	0	1	117	4,366	1	0	1	118	3,525	1	0	1	95
			T5E	4,243	2	0	0	115	4,556	2	0	0	123	4,584	2	0	0	124	3,702	2	0	0	100
			T5M	4,260	2	0	1	115	4,575	2	0	1	124	4,604	2	0	1	124	3,717	2	0	1	100
			T5R	4,195	2	0	2	113	4,504	3	0	3	122	4,532	3	0	3	122	3,660	3	0	3	99
			T5W	3,992	2	0	1	108	4,287	3	0	1	116	4,314	3	0	1	117	3,484	3	0	1	94
	700 mA	46W	ASY	5,129	1	0	1	112	5,508	1	0	1	120	5,543	1	0	1	120	4,337	1	0	1	94
			T5E	5,386	2	0	0	117	5,784	2	0	0	126	5,820	2	0	0	127	4,554	2	0	0	99
			T5M	5,409	2	0	1	118	5,808	3	0	1	126	5,844	3	0	1	127	4,573	3	0	1	99
			T5R	5,325	3	0	3	116	5,718	3	0	3	124	5,754	3	0	3	125	4,502	3	0	3	98
			T5W	5,068	3	0	1	110	5,443	3	0	1	118	5,477	3	0	1	119	4,285	3	0	1	93
	1000 mA	74W	ASY	7,083	1	0	1	96	7,606	1	0	1	103	7,653	1	0	2	103					
			T5E	7,437	2	0	0	101	7,986	2	0	0	108	8,036	2	0	1	109					
			T5M	7,468	3	0	1	101	8,020	3	0	1	108	8,070	3	0	1	109					
			T5R	7,353	3	0	3	99	7,896	3	0	3	107	7,945	3	0	3	107					
			T5W	6,998	3	0	1	95	7,515	3	0	2	102	7,562	3	0	2	102					
30C (30 LEDs)	350 mA	35W	ASY	4,174	1	0	1	119	4,482	1	0	1	128	4,510	1	0	1	129					
			T5E	4,382	2	0	0	125	4,706	2	0	0	134	4,735	2	0	0	135					
			T5M	4,401	2	0	1	126	4,726	2	0	1	135	4,755	3	0	1	136					
			T5R	4,333	2	0	2	124	4,653	3	0	3	133	4,682	3	0	3	134					
			T5W	4,124	2	0	1	118	4,428	3	0	1	127	4,456	3	0	1	127					
	530 mA	53W	ASY	5,996	1	0	1	113	6,438	1	0	1	121	6,478	1	0	1	122	5,333	1	0	1	101
			T5E	6,296	2	0	0	119	6,760	2	0	0	128	6,803	2	0	0	128	5,599	2	0	0	106
			T5M	6,322	3	0	1	119	6,789	3	0	1	128	6,831	3	0	1	129	5,623	3	0	1	106
			T5R	6,224	3	0	3	117	6,684	3	0	3	126	6,726	3	0	3	127	5,536	3	0	3	104
			T5W	5,924	3	0	1	112	6,362	3	0	1	120	6,401	3	0	1	121	5,269	3	0	1	99
	700 mA	67W	ASY	7,557	1	0	1	113	8,115	1	0	2	121	8,166	1	0	2	122	6,504	1	0	2	97
			T5E	7,936	2	0	0	118	8,521	3	0	1	127	8,575	3	0	1	128	6,829	3	0	1	102
			T5M	7,969	3	0	1	119	8,557	3	0	1	128	8,610	3	0	2	129	6,858	3	0	1	102
			T5R	7,846	3	0	3	117	8,425	3	0	3	126	8,478	3	0	3	127	6,752	3	0	3	101
			T5W	7,467	3	0	1	111	8,019	3	0	2	120	8,069	3	0	2	120	6,426	3	0	2	96
	1000 mA	107W	ASY	10,213	1	0	2	95	10,967	2	0	2	102	11,036	2	0	2	103					
			T5E	10,724	3	0	1	100	11,516	3	0	1	108	11,588	3	0	1	108					
			T5M	10,769	3	0	1	101	11,564	3	0	2	108	11,636	3	0	2	109					
			T5R	10,603	3	0	3	99	11,385	4	0	4	106	11,457	4	0	4	107					
			T5W	10,092	3	0	2	94	10,837	4	0	2	101	10,904	4	0	2	102					

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)					
			120V	208V	240V	277V	347V	480V
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	0.23	0.17
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	0.35	0.25

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).

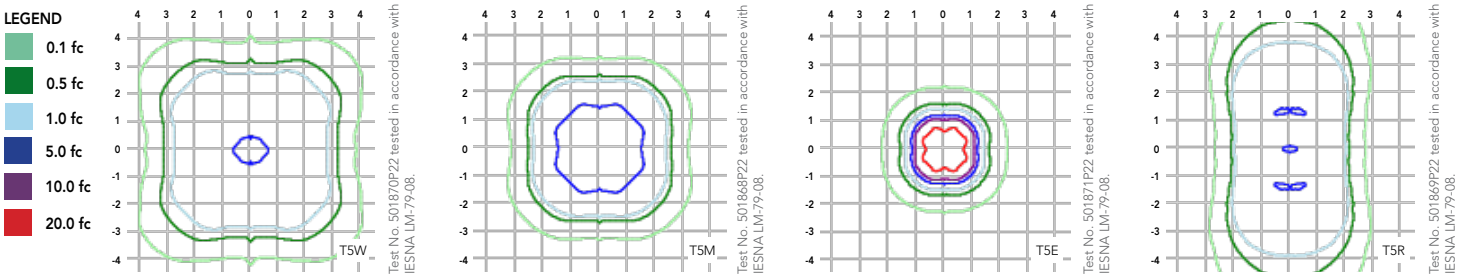
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

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.

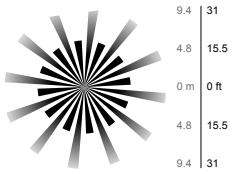
Isofootcandle plots for the DSXSC LED 30C 700 40K. Distances are in units of mounting height (8').



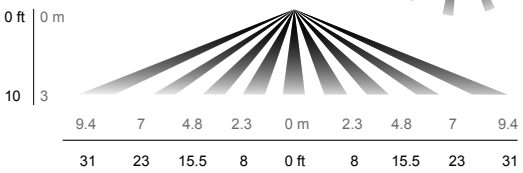
Motion Sensing

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

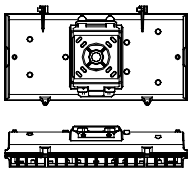


SIDE VIEW



Mounting Options

Surface Mounting



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 4×4" 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.

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

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

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