

D-Series LED Surface Canopy



d"series

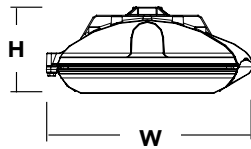
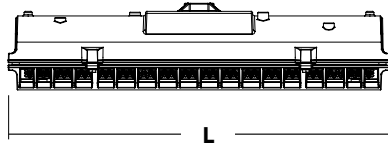
Specifications

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
DSXSC LED	10C	10 LEDs (one engine) ^{1,2}	350 350 mA	30K 3000 K	T5E Type V, entryway ⁴	MVOLT ⁵ 277 ⁵	Shipped included SRM Surface mount (12-inch length supply leads)
	20C	20 LEDs (two engines)	530 530 mA	40K 4000 K	T5M Type V, medium	120 ⁵ 347 ⁶	
	30C	30 LEDs (three engines)	700 700 mA	50K 5000 K	T5W Type V, wide	208 ⁵ 480 ⁶	
			1000 1000 mA (1 A)	AMBPC Amber phosphor converted ³	T5R Type V, rectangular ASY Asymmetric	240 ⁵	

Options							Finish (required)
Shipped installed						Shipped separately	DWHXD White
HS	House-side shield (housing visor) ⁷		PIRH3FC3V	Motion/ambient sensor for 15-30' mounting heights and typical applications requiring daylight harvesting and Title 24 compliance ¹³		BDS Bird shroud ⁷	DNAXD Natural aluminum
SF	Single fuse (120, 277, 347V) ^{8,9}		XAD	XPoint™ Wireless enabled ¹²			DDBXD Dark bronze
DF	Double fuse (208, 240, 480V) ^{8,9}		XAD924	XPoint™ Wireless enabled for emergency circuit ^{12,14,15}			
SPD	Separate surge protection ¹⁰		XAD PIR	XPoint™ Wireless enabled motion/ambient sensor for 8-15' mounting heights ^{12,15}			
DMG	External 0-10V dimming leads (no controls) ^{11,12}		XAD PIRH	XPoint™ Wireless enabled motion/ambient sensor for 15-30' mounting heights ^{12,15}			
PIR	Motion/ambient sensor for 8-15' mounting heights ¹³		XAD PIRH	XPoint™ Wireless enabled motion/ambient sensor for 15-30' mounting heights ^{12,15}			
PIRH	Motion/ambient sensor for 15-30' mounting heights ¹³		XAD924 PIR	XPoint™ Wireless enabled motion/ambient sensor for emergency circuits for 8-15' mounting heights ^{12,14,15}			
PIRH3FC3V	Motion/ambient sensor for 8-15' mounting heights and for typical applications requiring daylight harvesting and Title 24 compliance ¹³		XAD924 PIRH	XPoint™ Wireless enabled motion/ambient sensor for emergency circuits for 15-30' mounting heights ^{12,14,15}			

Accessories

Ordered and shipped separately.

DSXSCHS U House-side shield (1 per light engine)

DSXSCBDSJ DWHXD U Bird shroud for SRM on surface J-box only, white (specify finish)

NOTES

- Available with 700mA or 1000mA option only.
- Not available with 347 or 480V.
- AMBPC only available with 530mA or 700mA.
- DesignLights Consortium qualified.
- 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).
- N/A with one light engine (10C). Only available with 700mA or 1000mA.
- Also available as a separate accessory; see Accessories information at left.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Not available with XAD or XAD924 options.

- See the electrical section on page 3 for more details.
- DMG not available with all PIR or XAD options
- Dimming driver standard. Available in layouts up to 30'. Not available with fusing.
- 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.
- XAD924 specifies the Acuity Controls XPA RL1 DSI EM XPoint wireless light controller as a UL924 listed device for emergency lighting.
- XAD PIR specifies the Acuity Controls **XPA SBOR10** wireless controller, the XAD924 PIR specifies the Acuity Controls **XPA SBOR10_EM** wireless controller, the XAD PIRH specifies the Acuity Controls **XPA SBOR6** wireless controller, and the XAD924 PIRH specifies the **XPA SBOR10_EM** wireless controller.

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.

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

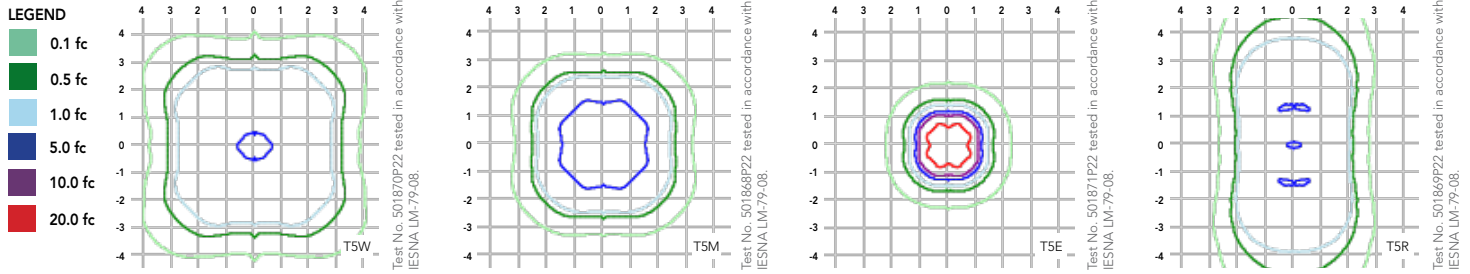
Projected LED Lumen Maintenance

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	

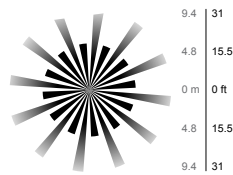
Isofootcandle plots for the DSXSC LED 30C 700 40K. Distances are in units of mounting height (8').



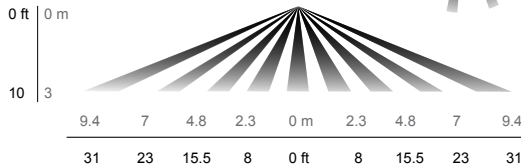
Motion Sensing

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

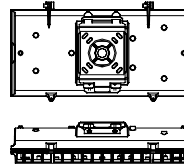


SIDE VIEW



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 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.

WARRANTY

5-year limited warranty

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.