

DESCRIPTION

The SDL LED outdoor luminaire displays the old-fashioned charm of traditional area lighting, enhancing any setting with distinctive styling. As a decorative luminaire, the SDL LED tastefully complements the architectural and environmental design of parks and roadways. The high-lumen downlight configuration uses Cooper Lighting Solutions' patented LightBAR™ technology to deliver uniform and efficient illumination to pedestrian and roadway applications.

SPECIFICATION FEATURES

Construction

Heavy-duty die-cast aluminum housing ensures strength of construction and longevity in application. Casting is hinged and opens with a simple 1/4 turn thumb screw for ease of maintenance.

Optics

Choice of six patented, high efficiency AccuLED Optic™ technology manufactured from injection-molded acrylic. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optic technology creates consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT. For the ultimate level of spill light control, an optional houseside shield accessory can be field or factory

installed. The house-side shield is designed to seamlessly integrate with the SL2, SL3 or SL4 optics.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common-mode and differential-mode surge protection. Optional 0-10V dimming driver available. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21.

Mounting

Decorative scroll arm, ordered separately, secures to casting with four bolts, which are supplied with the luminaire.

Finish

Cast components finished in a super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey and white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.

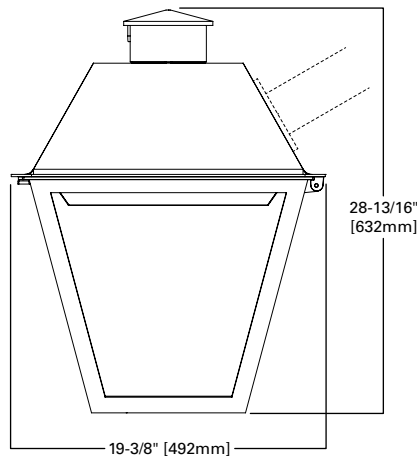


SDL LED

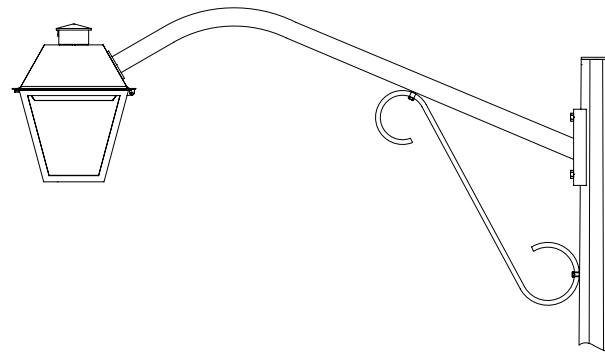
1 - 4 LightBARs

DECORATIVE LUMINAIRE

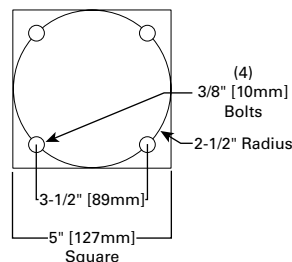
DIMENSIONS



MOUNTING CONFIGURATION (ARM SOLD SEPARATELY)



MOUNTING DETAIL



CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightBARs
ISO 9001
1.5G rated (Fixture and Arm)
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V 60Hz, 480V 60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

EPA

Effective Projected Area: (Sq. Ft.) 2.22

SHIPPING DATA

Approximate Net Weight:
40 lbs. (18.14 kgs)

POWER AND LUMENS (STANDARD CONFIGURATION - NO LENSES)

LED LightBARS	E01	E02	E03	E04	F01	F02	F03	F04	
Drive Current	350mA Drive Current				1A Drive Current				
Number of LEDs	21 LEDs				7 LEDs				
Power (Wattage)	25W	52W	75W	97W	26W	55W	78W	102W	
Current @ 120V (A)	0.22	0.44	0.63	0.82	0.22	0.46	0.66	0.86	
Current @ 277V (A)	0.10	0.20	0.28	0.36	0.10	0.21	0.29	0.37	
Power (Wattage)	31W	58W	82W	99W	32W	60W	85W	105W	
Current @ 347V (A)	0.11	0.19	0.28	0.29	0.11	0.19	0.28	0.30	
Current @ 480V (A)	0.09	0.15	0.20	0.21	0.09	0.15	0.21	0.22	
Optics									
T2S	Lumens	2,300	4,714	6,573	8,874	1,916	3,927	5,475	7,393
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2
T3S	Lumens	2,424	4,969	6,927	9,352	2,001	4,102	5,718	7,791
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
T4	Lumens	2,389	4,897	6,826	9,217	1,770	3,629	5,059	6,830
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
SL2	Lumens	2,494	5,111	7,126	9,621	2,162	4,431	6,178	8,341
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2
SL3	Lumens	2,503	5,130	7,152	9,656	2,150	4,408	6,145	8,297
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2
SL4	Lumens	2,412	4,945	6,893	9,307	2,034	4,170	5,813	7,849
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
5MQ	Lumens	2,722	5,580	7,779	10,502	2,268	4,648	6,480	8,749
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B1-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
5WQ	Lumens	2,692	5,518	7,693	10,387	2,257	4,626	6,449	8,708
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2

LUMEN MAINTENANCE

Ambient Temperature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours*	Theoretical L70 (Hours)
25°C	>99%	>97%	>96%	>93%	>450,000
40°C	>98%	>97%	>96%	>92%	>425,000

* Per IESNA TM-21 data.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

ORDERING INFORMATION

Sample Number: SDL-E04-LED-D-U-T3S-BK-4N7

Product Family ^{1,2}	Number of LightBARs ^{3,4}	Source Type	Driver	Voltage	Distribution	Color
SDL	E01 =(1) 21 LED LightBAR E02 =(2) 21 LED LightBARs E03 =(3) 21 LED LightBARs E04 =(4) 21 LED LightBARs F01 =(1) 7 LED LightBAR F02 =(2) 7 LED LightBARs F03 =(3) 7 LED LightBARs F04 =(4) 7 LED LightBARs	LED =Solid State Light Emitting	E =Non-Dimming D =Dimming ⁵	U =Universal (120-277V) 8 =480V ⁶ 9 =347V	T2S =Type II T3S =Type III T4 =Type IV SL2 =Type II with Spill Control SL3 =Type III with Spill Control SL4 =Type IV with Spill Control 5MQ =Type V Square Medium 5WQ =Type V Square Wide	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White
Options (Add as Suffix)				Accessories (Order Separately)		
4 =NEMA Photocontrol Receptacle 4N7 =NEMA 7-PIN Photocontrol Receptacle ⁷ 7030 =70 CRI / 3000K ⁸ 7050 =70 CRI / 5000K ⁸ 7060 =70 CRI / 5700K ⁸ 8030 =80 CRI / 3000K ⁸ 2L =Two Circuits ⁹ P =Polycarbonate Refractive Lens Panels ¹⁰ HSS =Factory Installed House Side Shield ¹¹ LCF =LightBAR Cover Plate Matches Housing Finish				OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - 105V-285V OA/RA1027 =NEMA Photocontrol - 480V OA/RA1201 =NEMA Photocontrol - 347V OA1223 =10kV Surge Module Replacement LB/HSS-21 =Field Installed House Side Shield for "E" LightBARs ^{11, 12} LB/HSS-7 =Field Installed House Side Shield for "F" LightBARs ^{11, 12} SCA6000 =Decorative Scroll Arm (6 foot)		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- 21 LED LightBAR driven at 350mA, 7 LED LightBAR driven at 1A.
- Standard 4000K CCT and nominal 70 CRI.
- Only available in E02-E04 and F02-F04. Dimming leads will be capped unless ordered with 4N7 option.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase ThreeWire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- Must specify dimming driver.
- Consult factory for lead times and lumen multiplier.
- Low-level output varies by bar count. Consult factory. Requires two or more LightBARs.
- EPA = 4.1 if polycarbonate refractive lens panels are included.
- Only for use with SL2, SL3 and SL4 distributions.
- One required for each LightBAR.