

LED Street & Area Light

LRS1 Series LED Roadway Luminaire

Assembled in the USA using domestic & foreign components.



Description

The LRS1 LED roadway luminaire is a high performance, utility-grade street and area light that is designed to replace and outshine legacy HID products up to 100W while providing significant energy savings, virtually no maintenance, and robust features that linemen and installers have come to expect.

Construction

- Heavy duty die-cast aluminum housing
- Durable powder coat finish
- Corrosion resistant hardware
- Tool-less entry
- Three (3) station terminal block that accepts 14 to 6 AWG
- Locking Type photocontrol receptacle with tool-less positioning
- IP54 rated driver chamber
- Self cleaning heat sink
- Robust surge suppression: 10kV and 20kV options
- Tenon mount with integral tilt steps (+5° to -5°) and capable of mounting on 1-1/4" NPS to 2" NPS (1.66in to 2.375in)
- Bridge and overpass vibration rated
- Standard Wildlife guard

Options

- Adjustable Output Unit
- Long-Life photocontrol
- Shorting cap
- Glare shield (backlight)
- Side shield



Visit www.designlights.org for the Qualified Product List



Model Selection Guide

Model	Configuration	Driver	Optics	CCT ¹	Housing Color ³	Surge Protection	Photocontrol Receptacle	Controls	Factory Installed Options	Field Installed Options
LRS1 Small LED Roadway Light	D: 40W, 6,100 Lumens	MV: 120-277V w/ 0-10V DIM	2: Type II 3: Type III 4: Type IV 5: Type V	2K: 2700K ² 3K: 3000K 4K: 4000K 5K: 5000K 6K: 5700K ²	GY: Gray	1: 10kV 2: 20kV	P7: 7 Pin Photocontrol Receptacle	N: No Controls S: Shorting Cap 1: Black long-life, fail-on photocontrol 2: Black long-life, fail-off photocontrol 3: Green long-life, fail-on photocontrol 4: Green long-life, fail-off photocontrol	(Blank): No Options A#: Adjustable Output Unit, Define# (1-8) Pxx: Programmed Output Unit, Define xx (02-04)	G: Glare Shield (backlight, field Installed)

¹Other CCTs available upon request.

²Limited-stocked option

³Other Housing Colors available upon request.

Specifications subject to change without notice.

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Project:	
Catalog#:	
Approved by:	

Applications

Parking Areas Roadways Recreation Areas
 Walkways

Electrical

- Driver power factor is > 0.9
- Driver THD < 20%
- Driver voltage 120-277V (50/60Hz)
- 0-10V dimming with 7-pin photo control receptacle standard
- Electronic driver has an expected life of 100,000 hours at 25°C ambient.
- Suitable for ambient temperatures from -40°C/-40°F to +40°C/104°F

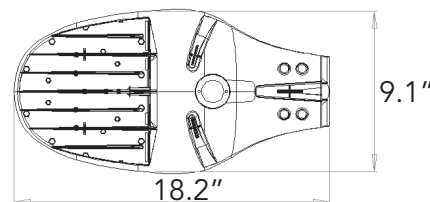
Optical

- Delivered lumens greater than 140LPW
- IP66 rated optical chamber
- UV protected lens
- Min 70 CRI
- Type II, Type III, Type IV & Type V available
- Optional back/side shield for reduction of light trespass

Dimensions

Weight: 6.7lbs

EPA: 0.6



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end user environment and application. Actual wattage may differ by $\pm 10\%$ when operating between 120-277V $\pm 10\%$. Contact factory for performance data on any configurations not shown here.

Model Configuration		Factory Installed Options	System Watts	NEMA Label	3K (3000K CCT)				4K (4000K CCT)			
					T2	T3	T4	T5	T2	T3	T4	T5
LRS1	D	P02	24	20	2890	2890	2910	2910	3070	3070	3090	3080
		P03	30	30	4340	4340	4370	4360	4600	4600	4630	4620
		P04/BLANK	41	40	5780	5780	5820	5810	6130	6130	6170	6160

BUG Rating

Model Configuration		Factory Installed Options	System Watts	NEMA Label	3K (3000K CCT)				4K (4000K CCT)			
					T2	T3	T4	T5	T2	T3	T4	T5
LRS1	D	P02	24	20	1-0-1	1-0-1	1-0-1	2-0-1	1-0-1	1-0-1	1-0-1	2-0-1
		P03	30	30	1-0-1	1-0-1	1-0-1	3-0-1	1-0-1	1-0-1	1-0-1	3-0-1
		P04/BLANK	41	40	2-0-1	1-0-1	1-0-1	3-0-1	2-0-1	1-0-1	2-0-1	3-0-1

Luminaire Lumen Maintenance Factors (LMF)

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient (tested per IESNA LM-80 and projected per IESNA TM-21). 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.

Model	10°C (50°F)			25°C (77°F)			40°C (104°F)		
	25kHrs	50kHrs	100kHrs	25kHrs	50kHrs	100kHrs	25kHrs	50kHrs	100kHrs
LRS1D	0.94	0.88	0.76	0.94	0.88	0.76	0.93	0.86	0.74

Electrical Data

Model	Operating Current (A)		Power (W)		PF		THD	
	120V	277V	120V	277V	120V	277V	120V	277V
LRS1DMV	0.35	0.16	42	42	0.997	0.977	4%	7%



Adjustable Output Unit

AOU is used to lower the fixture's light output and wattage. It can be easily adjusted with a flat-blade screwdriver. Approximate lumen and wattage values are shown in the tables below. The unit consumes no standby power and can be removed to convert the luminaire to standard 0-10V dimming.

Benefits:

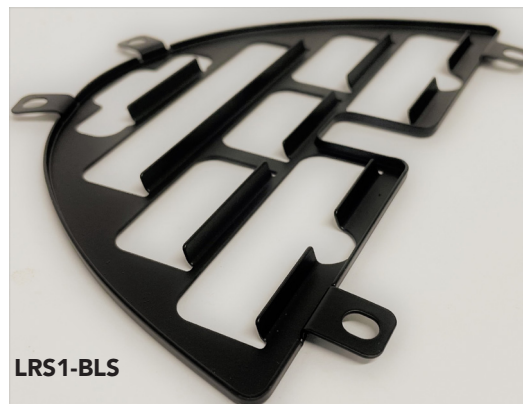
This unit allows maintenance departments to carry less inventory through reduced number of unique models. Specific wattages can be achieved to meet required rate structures.

Model Name	AOU Position	System Watts	NEMA Label	Delivered Lumens							
				3000K				4000K			
				Type II	Type III	Type IV	Type V	Type II	Type III	Type IV	Type V
LRS1DMV	8, 7, 6	41	40	5780	5780	5820	5810	6130	6130	6170	6160
	5	36	40	5080	5080	5120	5110	5390	5390	5420	5410
	4	31	30	4310	4310	4340	4330	4570	4570	4600	4600
	3	26	30	3570	3570	3600	3590	3790	3790	3810	3810
	2	21	20	2840	2840	2860	2850	3010	3010	3030	3020
	1	15	20	2140	2140	2150	2150	2270	2270	2280	2280

Accessories

Backlight/Glare Shield (LRS1-BLS)

- For light cutoff of rearward light at approximately 1/2 mounting height behind the pole
- 4-self tapping mounting screws included



LRS1-BLS

Bird Deterrent (LRX-BD)

- 6-Pcs/Kit (1 pc. shown in the pictures below and on the right)
- 1 kit required per fixture
- Tool-less installation



LRX-BD

Side Shield

- Left side shield, 2" tall (LRS1-LSS-2)
- Right side shield, 2" tall (LRS1-RSS-2)
- Each pack contains 10 pcs.
- Self tapping mounting screws included



LRS1-RSS-2 shown