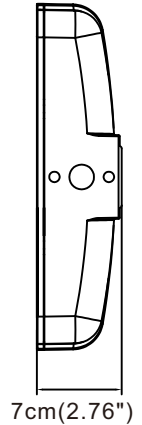
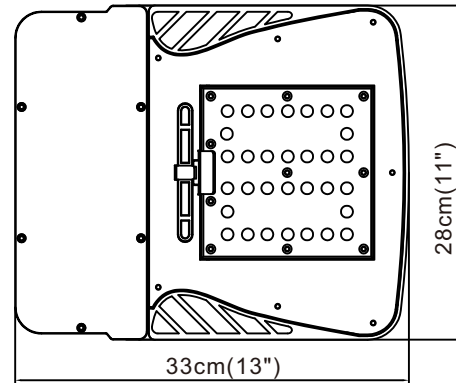


## L500D Series LED Area Luminaire



### Introduction

The L500D 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 L500 Series is the better alternative for traditional street and area lighting with quick payback and improved performance. It is ideal for replacing up to 250W metal halide with typical energy savings of 65% and expected service life of over 100,000 hours.

**Applications:** Roadway, parking lots, walkways and general area spaces.

### Specifications

EPA: 0.023 m<sup>2</sup> (0.25 ft<sup>2</sup>)  
Length: 33 cm (13")  
Width: 28 cm (11")  
Height: 7 cm (2.76")  
Weight: 4.5 kgs (10 lbs) (max)

### ORDERING INFORMATION

EXAMPLE: L501D-16C-25W-40K-T2-BR-SPM-NPCR-MS

Model	No. of LEDs	Power	Color	Distribution	FINISH	Mounting	Options
L501D	16C	25W	30K 3000K	T2 TYPE 2	BR Bronze	SPM Square pole mounting	NPCR No photocontrol
L502D		50W	40K 4000K	T3 TYPE 3	WH White	RPM Round pole mounting	PCR3 ANSI 3-wire Photocontrol Receptacle
L503D	32C	75W	45K 4500K	T4 TYPE 4	BL Black	SFM Slipfitter mounting	PCR5 ANSI 5-wire Photocontrol Receptacle
L504D		100W	50K 5000K	T5 TYPE 5	GR Gray	TNM Trunnion mounting	PCR7 ANSI 7-wire Photocontrol Receptacle
			57K 5700K				MS Motion sensor

### ELECTRICAL SYSTEM

- Input Voltage: 120/240V/277V 50/60Hz
- Power Factor : > 0.99 at full load
- Total Harmonic Distortion: < 15% at full load
- Integral 10kV surge suppression protection standard
- Luminaire is qualified to operate at ambient temperatures of -40°C to +50°C.

### REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed.
- Suitable for wet locations.
- Certified to ANSI C136.31-2001, 3G vibration standards.
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2.
- Meets FCC Part 15 standards for conducted and radiated emissions.
- Luminaire and finish endurance tested to withstand 3,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117.
- Dark Sky Friendly, IDA Approved. Please refer to [www.darksky.org](http://www.darksky.org) for most current information.
- RoHS compliant. Consult factory for additional details.
- 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](http://www.designlights.org) to confirm which versions are qualified.

### CONSTRUCTION & MATERIALS

- Tool-less entry.
- Designed with 0-10V dimming capabilities. Controls by others.

### Notes

- Requires Less Photocontrol Receptacle, ANSI 3-wire Photocontrol Receptacle, ANSI 5-wire Photocontrol Receptacle or ANSI 7-wire Photocontrol Receptacle option.
- Photocontrol (PE) requires 100-277 voltage or short cap option.
- Features an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Gray, silver, black, bronze, platinum bronze, white and so on are available.

### WARRANTY

- Ten years limited warranty is standard on luminaire and components.

# L500D Series Performance Data

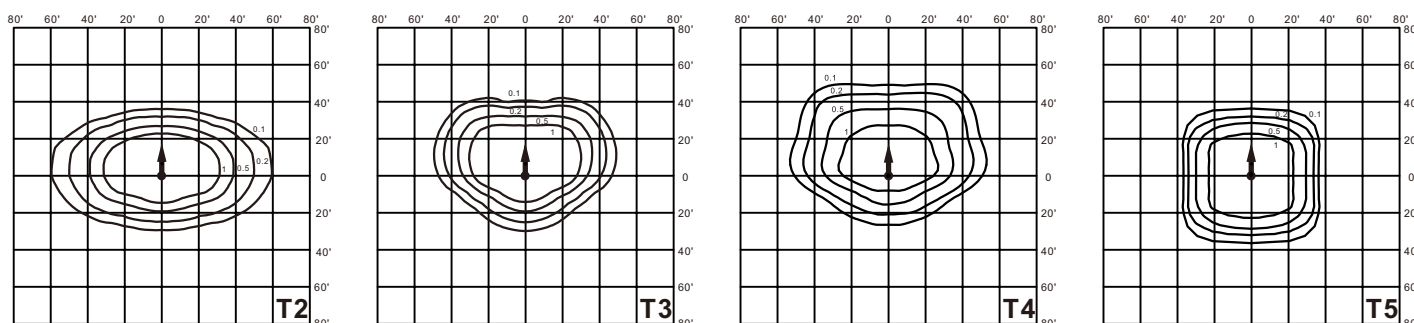
## Lumen Output

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 enduser environment and application. Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%. Contact factory for performance data on any configurations not shown here.

MODEL	LEDS	LED CURRENT	RATED WATTS	DIST TYPE	30K(3000K,70CRI)					40K(4000K,70CRI)					50K(5000K,70CRI)					57K(5700K,70CRI)				
					LUMENS	B	U	G	LPW	LUMENS	B	U	G	LPW	LUMENS	B	U	G	LPW	LUMENS	B	U	G	LPW
L501D	16	75mA	25W	T2	3256	1	0	1	130	3536	1	0	1	141	3586	1	0	1	143	3622	1	0	1	145
				T3	3292	1	0	1	132	3576	1	0	1	143	3626	1	0	1	145	3662	1	0	1	146
				T4	3149	1	0	1	126	3421	1	0	1	137	3469	1	0	1	139	3503	1	0	1	140
				T5	3343	2	0	1	134	3631	2	0	1	145	3682	2	0	1	147	3718	2	0	1	149
L502D		150mA	50W	T2	5732	2	0	2	115	6226	2	0	2	125	6314	2	0	2	126	6377	2	0	2	128
				T3	5797	1	0	1	116	6296	1	0	1	126	6385	1	0	1	128	6449	1	0	1	129
				T4	5545	2	0	2	111	6023	2	0	2	120	6108	2	0	2	122	6169	2	0	2	123
				T5	5886	3	0	1	118	6392	3	0	1	128	6483	3	0	1	130	6547	3	0	1	131
L503D	32	120mA	75W	T2	9287	2	0	2	124	10087	2	0	2	134	10230	2	0	2	136	10331	2	0	2	138
				T3	9392	2	0	2	125	10201	2	0	2	136	10345	2	0	2	138	10448	2	0	2	139
				T4	8984	2	0	2	120	9758	2	0	2	130	9896	2	0	2	132	9994	2	0	2	133
				T5	9535	3	0	1	127	10357	3	0	1	138	10503	3	0	1	140	10608	3	0	1	141
L504D		150mA	100W	T2	10894	3	0	3	109	11832	3	0	3	118	11999	3	0	3	120	12119	3	0	3	121
				T3	11016	2	0	2	110	11965	2	0	2	120	12134	2	0	2	121	12255	2	0	2	123
				T4	10538	2	0	2	105	11446	2	0	2	114	11608	2	0	2	116	11723	2	0	2	117
				T5	11185	3	0	1	112	12148	3	0	1	121	12320	3	0	1	123	12443	3	0	1	124

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product  
Isfootcandle plots for the L502D. Distances are in units of mounting height (15')



## Electrical Data

MODEL	LEDS	LED CURRE	SYSTEM WATTS	Current		
				120	240	277
L501	16	75mA	25W	0.21	0.11	0.10
L502		150mA	50W	0.42	0.21	0.19
L503	32	120mA	75W	0.63	0.32	0.28
L504		150mA	100W	0.84	0.42	0.37

## Lumen Ambient Temperature (LAT) Multipliers

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	0.99

## Luminaire Lumen Maintenance Factors (LMF)

Data references the extrapolated performance projections for the platforms noted in a25°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	25000	50000	75000	100000
Lumen Maintenance Factor	L501D 16 LED 75mA				
	100%	96%	92%	88%	84%
	L502D 16 LED 150mA				
	100%	96%	92%	88%	84%
	L503D 32 LED 120mA				
	100%	96%	92%	88%	84%
	L504D 32 LED 150mA				
	100%	95%	91%	87%	83%