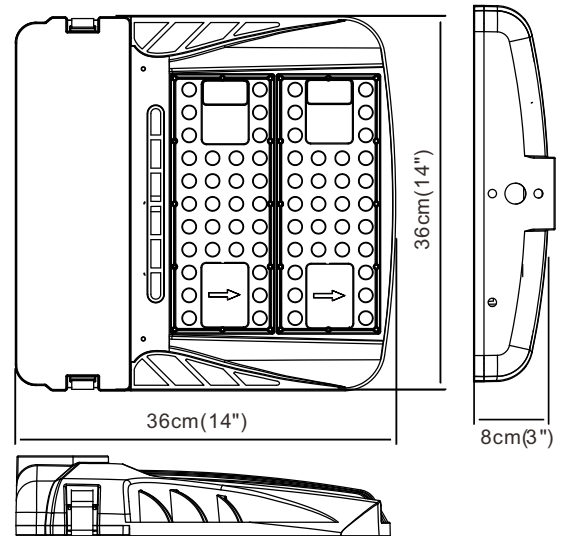




## L500D Series LED Area Luminaire



### 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:	0.03 m <sup>2</sup> (0.32 ft <sup>2</sup> )
Length:	36 cm (14")
Width:	36 cm (14")
Height:	8cm (3")
Weight :	4.6 kgs (10 lbs) (max)

### ORDERING INFORMATION

EXAMPLE: L505D-64C-150W-40K-T2-BR-SPM-NPCR-MS

Model	No. of LEDs	Power	Color	Distribution	FINISH	Mounting	Options
L505D	64C 64LEDS	150W	30K 3000K 40K 4000K 45K 4500K 50K 5000K 57K 5700K	T2 TYPE 2 T3 TYPE 3 T4 TYPE 4 T5 TYPE 5	BR Bronze WH White BL Black GR Gray	SPM Square pole mounting RPM Round pole mounting SFM Slipfitter mounting TNM Trunnion mounting	NPCR No photocontrol PCR3 ANSI 3-wire Photocontrol Receptacle PCR5 ANSI 5-wire Photocontrol Receptacle PCR7 ANSI 7-wire Photocontrol Receptacle MS Motion sensor
L506D		200W					

### 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

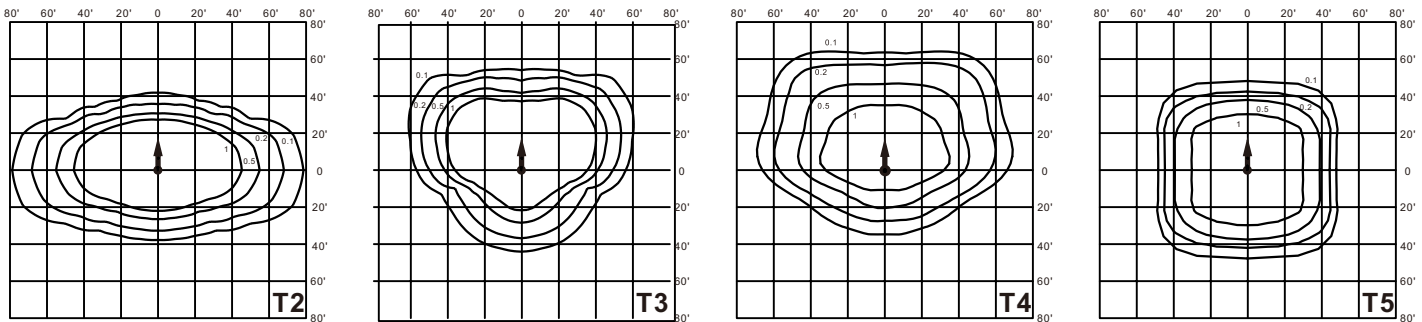
### Lumen Output

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
L505D	64	120mA	150W	T2	17286	3	0	3	115	18775	3	0	3	125	19040	3	0	3	127	19230	3	0	3	128
				T3	17470	2	0	2	116	18975	2	0	2	126	19243	2	0	2	128	19434	2	0	2	130
				T4	18172	2	0	2	121	19737	2	0	2	132	20016	2	0	2	133	20215	2	0	2	135
				T5	18526	4	0	2	124	20122	4	0	2	134	20406	4	0	2	136	20609	4	0	2	137
L506D		150mA	200W	T2	19957	4	0	4	100	21676	4	0	4	108	21982	4	0	4	110	22201	4	0	4	111
				T3	20170	3	0	3	101	21907	3	0	3	110	22216	3	0	3	111	22437	3	0	3	112
				T4	20980	3	0	3	105	22787	3	0	3	114	23109	3	0	3	116	23338	3	0	3	117
				T5	21389	4	0	2	107	23231	4	0	3	116	23559	4	0	3	118	23793	4	0	3	119

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product  
Isfootcandle plots for the L505D. Distances are in units of mounting height (15')



### Electrical Data

MODEL	LEDS	LED CURRENT	SYSTEM WATTS	Current		
				120V	240V	277V
L505	64	120mA	150W	1.26A	0.63A	0.55A
L506		150mA	200W	1.67A	0.84A	0.73A

### 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	L505 64 LED 120mA				
	100%	105%	101%	98%	93%
	L506 64 LED 150mA				
	100%	98%	88%	79%	71%