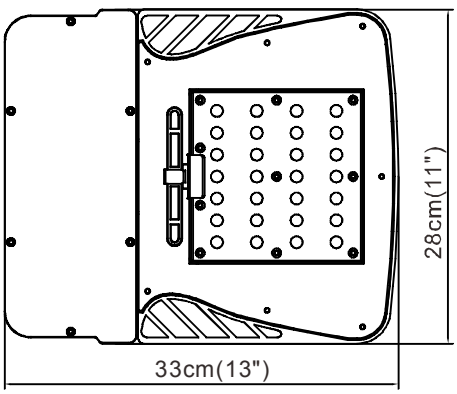
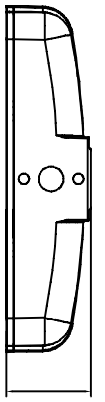
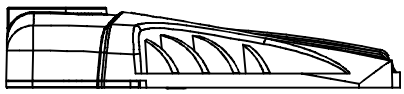
L500 Series
LED Area Luminaire









Introduction

The L500 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 400W metal halide with typical energy savings of 65% andexpected service life of over 100,000 hours.

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

Specifications

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

ORDERING INFORMATION

EXAMPLE:L503L-16C-65W-30K-T2-BR-SPM-NPCR-MS

Series	Voltage	No.of LEDS	POWER	Color	Distribution	Finish	Mounting	options
L501	L:100-277VAC H:347-480VAC	10C 10 LEDS	25W	30K 3000K 40K 4000K 50K 5000K 57K 5700K	T2 TYPE 2 T3 TYPE 3 T4 TYPE 4 T5 TYPE 5	BR Brown WH White BL Black GY Gray	SPM Square pole mounting RPM Round pole mounting SFM Slipfitter mounting TNM Trunnion mounting	NPCR No Photocontrol Receptacle PCR3 3-wire Photocell PCR5 ANSI 5-wire Photocontrol Receptacle PCR7 ANSI 7-wire Photocontrol Receptacle MS Motion sensor P Premium
L502		16C 16 LEDS	40W					
L503			65W					
L504		28C 28 LEDS	80W					
L505			100W					
L506			120W					
L507			150W					

ELECTRICAL SYSTEM

- Input Voltage: 100-277V or 347-480V, 50/60Hz
- Power Factor : > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Designed with 0-10V dimming capabilities. Controls by others.
- Integral 10kV surge suppression protection standar.
- Luminaire is qualified to operate at ambient temperatures of -40°C to+50°C.

WARRANTY

- Five year limited warranty is standard on luminaire and components.

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 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 to confirm which versions are qualified.

Visit our website at www.jiaoguang.com
E-mail:salesdept9@jiaoguang. com
Tel:+86-576-89086611
TAIZHOU JIAOGUANG LIGHTING CO.,LTD
1 Wei Er Rd., Taizhou Economic Development Zone,
Taizhou City, Zhejiang Province, China

L500 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 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

MODEL	LEDS	LED CURRENT	RATED WATTS	DIST TYPE	30K(3000K,70CRT)						40K(4000K,70CRT)						50K(5000K,70CRT)						57K(5700K,70CRT)					
					LUMENS	B	U	G	LPW	LV	LUMENS	B	U	G	LPW	LV	LUMENS	B	U	G	LPW	LV	LUMENS	B	U	G	LPW	LV
L501	10	0.7A	25W	T2	2905	1	0	1	115	P	3050	1	0	1	122	P	3108	1	0	1	124	P	3173	1	0	1	127	P
				T3	2894	1	0	1	114	P	3039	1	0	1	122	P	3097	1	0	1	124	P	3161	1	0	1	126	P
				T4	2865	1	0	1	112	P	3008	1	0	1	120	P	3066	1	0	1	123	P	3129	1	0	1	125	P
				T5	2704	2	0	2	105	P	2839	2	0	2	114	P	2893	2	0	2	116	P	2953	2	0	2	118	P
L502	16	0.75A	40W	T2	4818	1	0	1	118	P	5059	1	0	1	126	P	5155	2	0	2	129	P	5262	2	0	2	132	P
				T3	4800	1	0	1	118	P	5040	1	0	1	126	P	5136	1	0	1	128	P	5243	1	0	1	131	P
				T4	4752	1	0	1	117	P	4989	1	0	1	125	P	5084	1	0	1	127	P	5190	1	0	1	130	P
				T5	4485	3	0	2	110	P	4709	3	0	3	118	P	4799	3	0	3	120	P	4898	3	0	3	122	P
L503		1.15A	65W	T2	6727	2	0	2	107	S	7063	2	0	2	109	S	7198	2	0	2	111	S	7348	2	0	2	113	S
				T3	6702	2	0	2	106	S	7037	2	0	2	108	S	7171	2	0	2	110	S	7320	2	0	2	113	S
				T4	6634	2	0	2	105	S	6966	2	0	2	107	S	7099	2	0	2	109	S	7246	2	0	2	111	S
				T5	6324	3	0	3	100	S	6640	3	0	3	102	S	6767	3	0	3	104	S	6908	3	0	3	106	S
L504	28	0.85A	80W	T2	9067	3	0	3	115	P	9520	2	0	2	119	P	9702	2	0	2	121	P	9903	2	0	2	124	P
				T3	9033	2	0	2	114	P	9484	2	0	2	119	P	9665	2	0	2	121	P	9866	2	0	2	123	P
				T4	8942	2	0	2	113	P	9389	2	0	2	117	P	9568	2	0	2	120	P	9767	2	0	2	122	P
				T5	8440	3	0	3	107	S	8862	3	0	3	111	S	9030	3	0	3	113	P	9218	3	0	3	115	P
L505		1.0A	100W	T2	10505	3	0	3	112	S	11030	3	0	3	110	S	11240	3	0	3	112	S	11474	3	0	3	115	S
				T3	10465	2	0	2	111	S	10988	2	0	2	110	S	11198	2	0	2	112	S	11431	2	0	2	114	S
				T3 P	12130	2	0	2	130	P	12494	2	0	2	134	P	13343	2	0	2	143	P	13464	2	0	2	145	P
				T4	10360	3	0	3	110	S	10878	2	0	2	109	S	11086	2	0	2	111	S	11316	2	0	2	113	S
				T5	9778	4	0	4	104	S	10267	4	0	4	103	S	10463	4	0	4	105	S	10680	4	0	4	107	S
L506		1.25A	120W	T2	12386	3	0	3	103	S	13005	3	0	3	108	S	13253	3	0	3	110	S	13529	3	0	3	113	S
				T3	12339	2	0	2	102	S	12956	2	0	2	108	S	13203	2	0	2	110	S	13477	2	0	2	112	S
				T4	12215	3	0	3	101	S	12826	3	0	3	107	S	13071	3	0	3	109	S	13342	3	0	3	111	S
				T5	11644	4	0	4	97	S	12227	4	0	4	102	S	12459	4	0	4	104	S	12719	4	0	4	106	S
L507		1.6A	150W	T2	14303	3	0	3	95	/	15018	3	0	3	100	/	15304	3	0	3	102	/	15623	3	0	3	104	/
				T3	14249	3	0	3	95	/	14961	3	0	3	100	/	15246	3	0	3	102	/	15563	3	0	3	104	/
				T3 P	17340	3	0	3	116	P	17860	3	0	3	119	P	19074	3	0	3	127	P	19439	3	0	3	130	P
				T4	14106	3	0	3	94	/	14811	3	0	3	99	/	15094	3	0	3	101	/	15407	3	0	3	103	/
				T5	13447	4	0	4	90	/	14119	4	0	4	94	/	14388	4	0	4	96	/	14687	4	0	4	98	/

Electrical Data

MODEL	LEDS	LED CURREN	SYSTEM WATTS	Current					
				120	208	240	277	347	480
L501	10	0.7A	25W	0.21	0.13	0.11	0.10	-	-
L502	16	0.75A	40W	0.35	0.20	0.18	0.16	-	-
L503		1.15A	65W	0.55	0.33	0.29	0.26	0.20	0.16
L504	28	0.85A	80W	0.68	0.41	0.36	0.33	-	-
L505		1.0A	100W	0.85	0.50	0.44	0.40	0.31	0.24
L506		1.25A	120W	1.10	0.61	0.53	0.49	0.37	0.28
L507		1.5A	150W	1.27	0.76	0.66	0.61	0.46	0.35

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	L501 10 LED 0.7A				
	100%	98%	96%	94%	93%
	L502 10 LED 0.75A				
	100%	97%	94%	92%	89%
	L503 10 LED 1.15A				
	100%	92%	85%	79%	73%
	L504 28 LED 0.85A				
	100%	97%	94%	92%	89%
	L505 28 LED 1.0A				
	100%	97%	94%	92%	89%
	L506 28 LED 1.25A				
	100%	92%	85%	79%	73%
	L507 28 LED 1.5A				
	100%	91%	84%	77%	71%

Lumen Ambient Temperature (LAT) Multipliers

Ambient		Lumen Multiplier
0℃	32℉	1.02
10℃	50℉	1.01
20℃	68℉	1.00
25℃	77℉	1.00
30℃	86℉	1.00
40℃	104℉	0.99

Notes

- Requires Less Photocontrol Receptacle, 3-wire Photocell, ANSI 5-wire Photocontrol Receptacle or ANSI 7-wire Photocontrol Receptacle option.
- Photocontrol（PE）requires 100-277, 347, 480 voltage or short cap option.
- Also available as a separate accessory; see Accessories information or Consulting our company.
- Minimum 4KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).
- Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000K (70 min. CRI) or 5700K (65 min. CRI) configurations.
- 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.

Visit our website at www.jiaoguang.com
E-mail:salesdept9@jiaoguang. com
Tel:+86-576-89086611
TAIZHOU JIAOGUANG LIGHTING CO.,LTD
1 Wei Er Rd., Taizhou Economic Development Zone,
Taizhou City, Zhejiang Province, China