



The Lotus family of Street & Road lights by Juganu is designed to be efficient, lightweight, and highly reliable. With an impressive system efficacy of up to 140 LPW, these lights offer significant energy savings—reducing consumption by 75%-90% compared to HPS lamps and 30% compared to other LED lights.

Thanks to a minimal light degradation rate of less than 0.5% per year, Lotus ensures consistent illumination over many years. Its optimized optics direct light precisely where it's needed, delivering uniform illumination that meets international standards for street and road lighting.

Built to endure harsh weather conditions, including tropical rains and coastal proximity, Lotus fixtures offer exceptional durability.



Lighting (configurable at purchase)

- Provides efficient, uniform, and glare-free lighting
- CCT: 2700K - 5000K
- Several types of optics for various road conditions

Protection

- Ingress Protection: IP66 rated for water and dust resistance
- Impact Protection: IK10 rating

Connectivity

- NEMA Socket ANSI C136

Benefits

- Achieves 75%-90% energy savings
- Reduces maintenance costs by up to 95%
- Long-lasting with a guaranteed operating lifetime
- Quick and easy installation

Lotus

City & Infrastructure

GENERAL INFORMATION

Dimensions (mm)	Varies by model – refer to the Mechanical Dimensions section below
Weight	Varies by model – see the Packaging and Weight section below
Materials	Powder-coated die-cast aluminum housing Protective Glass Color black or gray Custom colors available upon request

OPERATING AND ELECTRICAL

Power Consumption	0 to 200 W
Surge Protection	10 kV
Power Factor	> 0.92, max current THD 15% at 220V
System Efficacy	up to 140 LPW (including PS & Optics)
Operating Voltage	110 – 277 VAC
Maximum Voltage	90 – 277 VAC
Operating Frequency	47Hz – 63 Hz
Dimming	DALI, factory set, 0 to 10V, wireless control
Operating Temperature	–25°C to 50°C (13°F to 122°F)
Cooling	Passive cooling
Ingress Protection Rate	IP66
Impact Protection	IK10

LIGHTING CHARACTERISTICS

Lumen Maintenance	TM21 based on ISTMT and LM80 L90 > 60,000 hours L70 > 140,000 hours
Correlated Color Temperature (CCT)	2700K - 5000K
Color Rendering Index (CRI)	>70

Lotus

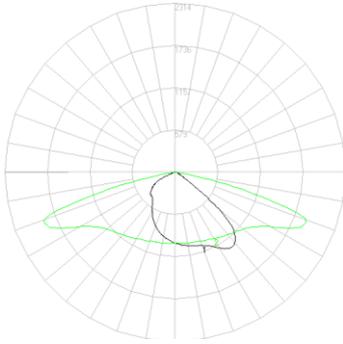
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STANDARDS (additional local standards applicable)

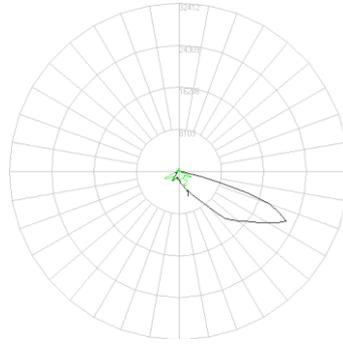
Group	Standard abbreviation	Description
EMC	EM 55015 IEC 61000-3-2,3	Emission
	EN61547 EN 61000-4-2,3,4,5,6,8,11	Immunity 10kV surges
Photometrics	IESNA LM-79	Photometric
	IEC 62471:2006	Photo-biologic, exempt Blue light
Mechanics and Environment	IEC 60529, EN 60529	IP66, Igress protection rate
	IEC-62262-2002	IK-10, Impact
	IEC 68-2-6	Vibration in 3 axes
	ISO9227, *MIL-STD-810G	Salt fog for 1000h for marine environment
Safety	IEC 60598-2-3:2002, AMD1:2011 Used in conjunction with: IEC60598-1:2014, AMD1:2017	Contains: Dielectric strength Insulation resistance Leakage current Protection against electric shock Torque resistance of screws and fittings Weight/wind
	UL 1598 CSA C22.2 No. 250.0-18	UL Standard for Safety of Luminaires for the North America market
	IEC 62031:2008 + A1:2012	Safety of LED board
	EN61347-1, EN61347-2-13, EN62384	LED driver safety
Luminaire Performance Test	EN 62722-1:2016 EN 62722-2-1	Lumens and CRI performance test over 1000 hours
	ISTMT TM-21, LM-80	Temp. of LED, Driver
Certifications	CB ENEC Test report ENEC+	Europe
	cTUVus)	North America
	Inmetro	Brazil
	NOM-003/031/058	Mexico
	Teken 20	Israel SII

Photometric Curves

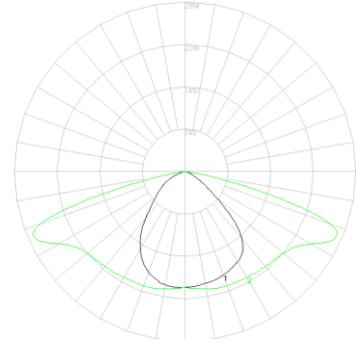
D01 Type II, Medium



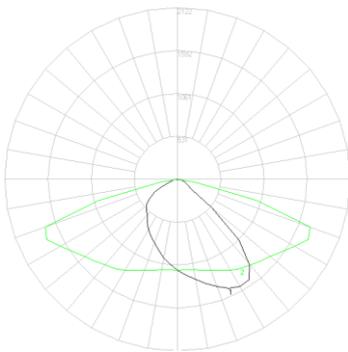
D02 Type IV, Short



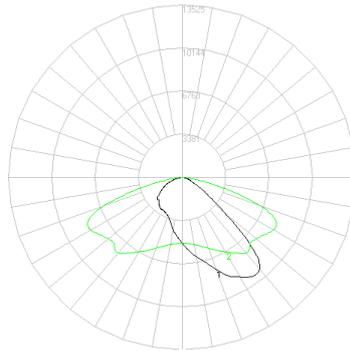
D03 Type II, Medium



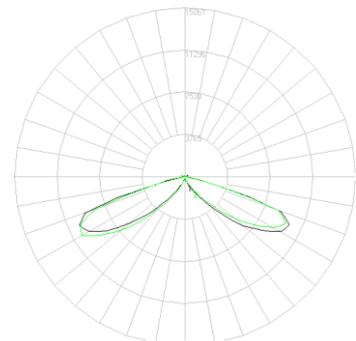
D04 Type II, Short



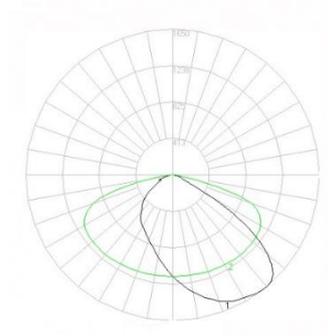
D05 Type II, Short



D06 Type V



D44 Type II, Very Short



Performance (4000K)

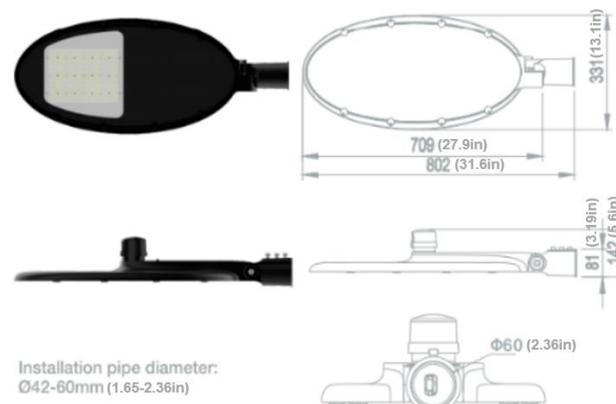
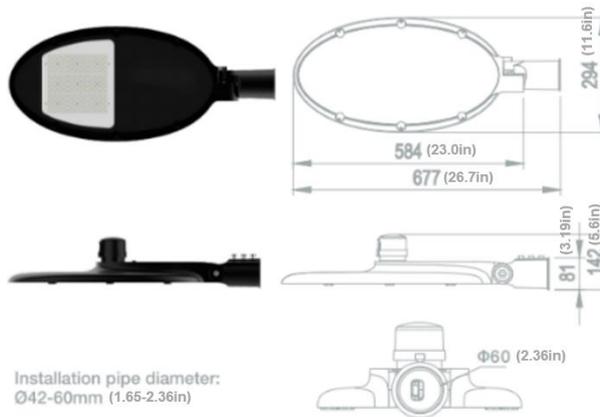
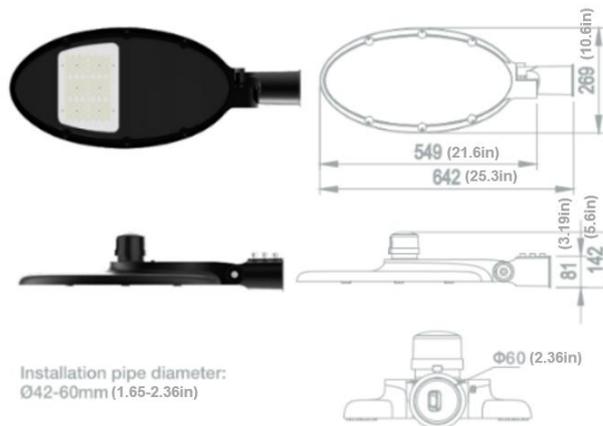
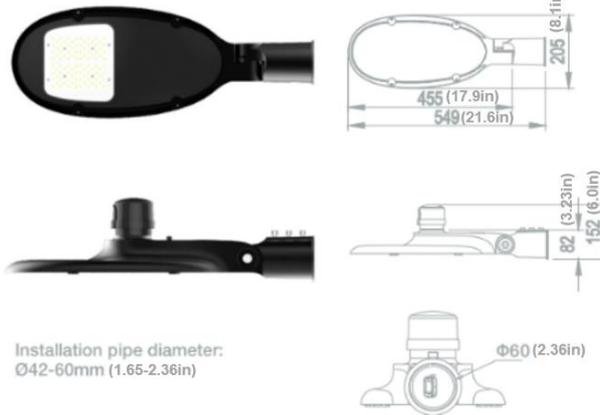
Power [W]	Typ. efficacy [LPW]	Total lumens [LM]	
		LP1	LP2
30	140 LP1, 160 LP2	4.200,	4.800
50	140 LP1, 160 LP2	7.000,	8.000
80	140 LP1, 160 LP2	11.200,	12.800
100	140 LP1, 160 LP2	14.000,	16.000
120	140 LP1, 160 LP2	16.800,	19.200
150	140 LP1, 160 LP2	21.000,	24.000
180	140 LP1, 160 LP2	25.200,	28.800
200	140 LP1, 160 LP2	28.000,	32.000

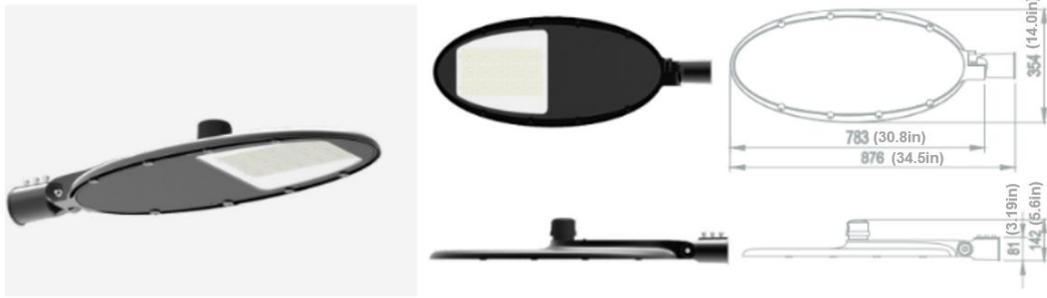
* Luminaire efficacy at 2700K is reduced at a maximum of 15%.

Packaging and Weight

Group	Power	Lighting Fixtures Dimensions	Packaging Dimensions	Net Weight	Gross Weight
LP1	Up to 30W	549*205*152 mm 21.6*8.1*6.0 in	608*232*265 mm 24.0*9.2*10.5 in	7 kg 15.4 lb	8 kg 17.6 lb
	31W- 60W	642*269*142 mm 25.3*10.6*5.6 in	695*222*325 mm 27.4*8.8*12.8 in	12 kg 26.5 lb	14 kg 30.9 lb
	61W-120W	677*294*142 mm 26.7*11.6*5.6 in	730*222*345 mm 28.8*8.8*13.6 in	12.2 kg 26.9 lb	15 kg 33.1 lb
	121W-200W	802*331*142 mm 31.6*13.1*5.6 in	855*222*385 mm 33.7*8.8*15.2 in	14.8 kg 32.6 lb	18 kg 39.7 lb
LP2	Up to 25W	549*205*152 mm 21.6*8.1*6.0 in	608*232*265 mm 24.0*9.2*10.5 in	7 kg 15.4 lb	8 kg 17.6 lb
	25W-50W	642*269*142 mm 25.3*10.6*5.6 in	695*222*325 mm 27.4*8.8*12.8 in	12 kg 26.5 lb	14 kg 30.9 lb
	51W-80W	677*294*142 mm 26.7*11.6*5.6 in	730*222*345 mm 28.8*8.8*13.6 in	12.2 kg 26.9 lb	15 kg 33.1 lb
	81W-120W	802*331*142 mm 31.6*13.1*5.6 in	855*222*385 mm 33.7*8.8*15.2 in	14.8 kg 32.6 lb	18 kg 39.7 lb
	121W-200W	876*354*142 mm 34.5*14.0*5.6 in	930*222*405 mm 36.7*8.8*16.0 in	17.4 kg 38.4 lb	20 kg 44.1 lb

Mechanical Dimensions (LP1=140 lumens per watt, LP2=160 lumens per watt)





Mounting

- Integrated die-cast pole stop feature
- Compatible with mounting poles $\varnothing 42$ mm to $\varnothing 60$ mm (1.65 to 2.36 in.)
- Optional wall-mount adapter available
- Supports 25 mm (1 in.) adapter for additional flexibility
- Adjustable inclination: $\pm 15^\circ$ integrated; 90° inclination supported for vertical pole (post-top) installations without an arm

Ordering Information

Product	Power	Family	CCT	Wireless (COM)	ANSI C136.41 5 (NEMA)	AC protection unit	Distribution curve	Lumens per watt	Class
JLED-SL	xxxW	LOTUS	xx	Wx	Nx	Px	Dxx	LPx	Cx

Ordering Options

Power xxxW (custom levels on request)	30	
	50	
	80	
	100	
	120	
	150	
	180	
	200	
	XXX – specify custom wattage	
CCT (custom levels on request)	27 – 2700K	
	30 – 3000K	
	40 – 4000K	Standard
	50 – 5000K	
Wx	W0 – Wireless controller is not integrated	Standard
	W1 – JNET1 & JCMS is integrated	
Nx	N0 – NEMA not included	
	NS – 0 to 10V Analog NEMA base with shorting cap	Standard
	NP – NEMA with photocell	
	NWA – NEMA with JNET 1 & JCMS with 0 to 10V, Analog	
	NWD – NEMA with JNET 1 & JCMS with DALI control	
Px	ND – DALI control NEMA base with shorting cap	
	P0 – Standard surge protection (10kV) included	Standard
Distribution curves (see Photometric Curves section)	P1 – JACTP (AC total protection module) included	
	D01 - Type II, Medium	
	D02 - Type IV, Short	
	D03 - Type II, Medium	
	D04 - Type II, Short	Standard
	D05 - Type II, Short	
	D06 - Type V	
LPx	D44 - Type II, Very Short	
	LP1 – 140 lumens per watt	Standard
Cx	LP2 – 160 lumens per watt	
	C1 - Class I installation	Standard
	C2 - Class II installation	

Notes

NWA Limited to 165W

Ordering Example

JLED-SL-080W-LOTUS-40-W0-NS-P0-D04-LP1-C1

Description

JLED street light of the Lotus family with 80W, 4000K, no communication, 0 to 10V NEMA base with a shorting cap, 10kV, distribution curve D04, 140 lumens per watt, and Class I installation