

Mia 1



The Mia family of Street & Road lights by Juganu is designed to be efficient, lightweight, and highly reliable. With an impressive system efficacy of up to 170 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, Mia 1 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, Mia1 fixtures offer exceptional durability.



Lighting (configurable at purchase)

- Provides efficient, uniform, and glare-free lighting
- CCT: 3000K - 5000K
- Several types of optics for various road conditions

Protection

- Ingress Protection: IP66 rated for water and dust resistance
- Impact Protection: IK08 rating (IK10 optional)

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

Mia1

GENERAL INFORMATION

Dimensions (mm)	Various models, see the Mechanical Dimensions page below
Weight	Various models, see the Packaging and Weight section below
Materials	Body: powder-coated die-cast aluminum Lens: PC for LED array or single LED Protective Glass

OPERATING AND ELECTRICAL

Power Consumption	up to 200 W
Surge Protection	10 kV
Power Factor	> 0.90, max current THD 15% at 220V
System Efficacy	up to 160 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
Water Resistance (IP Rating)	IP66 (with Salt fog and UV treatment)
Impact Protection	IK08 (IK10 is optional)

LIGHTING CHARACTERISTICS

Lumen Maintenance	TM21 based on ISTMT and LM80 L90 > 48,000 hours L70 > 120,000 hours
Correlated Color Temperature (CCT)	3000K - 5000K (configurable at purchase)
Color Rendering Index (CRI)	>70

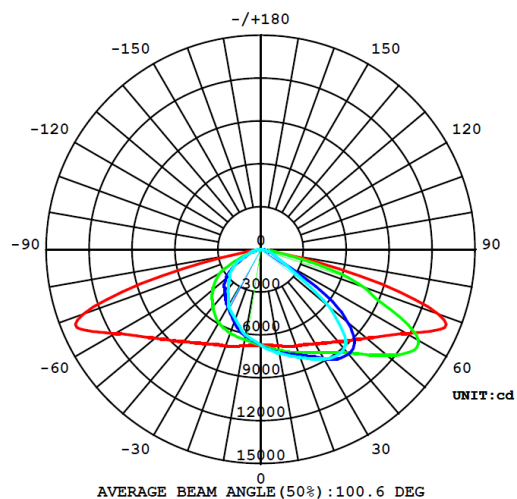
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STANDARDS (additional local standards applicable)

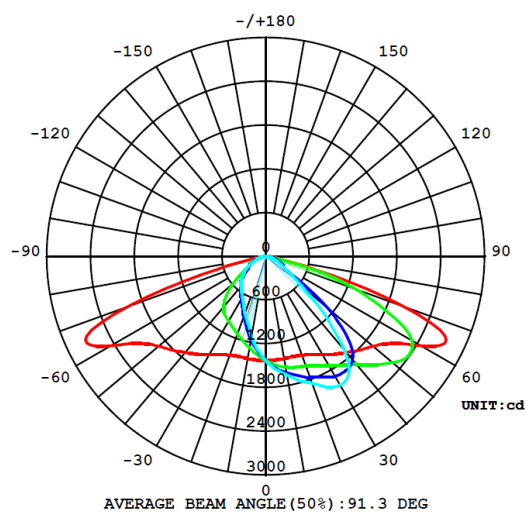
Group	Standard abbreviation	Description
EMC	EN IEC55015 IEC 61000-3-3 IEC 61000-3-2	Emission
	EN61547	Immunity
Photometrics	IES LM-79-08	Photometric
	IEC 62471	Photo-biologic, exempt
Mechanics and Environment	IEC 60529, IEC 60598-1	Protection Rate
	IEC-62262	IK Level
	IEC 60598-1	Vibration
	IEC 60068-2-6 ANSI C136.31	
	IEC 60068-2-11	Salt Fog
Safety	IEC60598-1 IEC 60598-2-3	Safety of Luminaires
	IEC 60598-1 IEC 60598-2-3 IEC 62493	LVD
	UL 1598 CSA C22.2 No. 250.0 -18	Safety of Luminaires
	ANSI/UL 1598 ANSI/IES LM-80-15 IES TM-21-11 IES LM-84-14	Temp. of LED, Driver
ROHS	IEC62321-3-1 IEC62321-4,5,6,8 IEC62321-7-1,2	
Certifications	ENEC Test	Europe

Photometric Curves

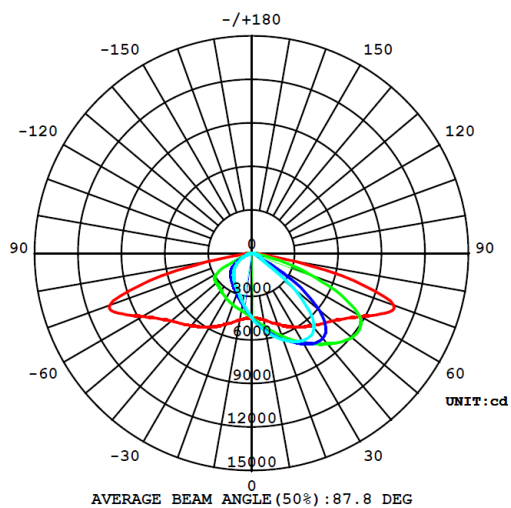
D08 Type II–Medium



D09 Type II–Short



D10 Type II–Medium



Mounting

Suitable for mounting on the following pole diameters:

- PD1 - 30 mm to 42 mm (1.18 in. to 1.65 in.)
- PD2 - 50 mm to 60 mm (1.97 in. to 2.36 in.)
- PD002 ALUMINIUM ADAPTER RING--30 mm to 42 mm (1.18 in. to 1.65 in.)

Inclination: integrated with $\pm 15^\circ$

Performance (4000K)

Power [W]	Typ. efficacy [LPW] LP2	Total lumens [LM] LP2
30	170	5100
50	171	8550
65	171	11120
90	172	15480
100	172	17200
120	173	20760
150	173	25950
165	173	28545
180	173	31140
200	173	34600

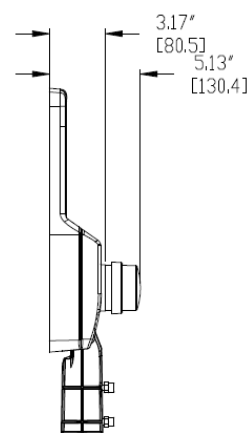
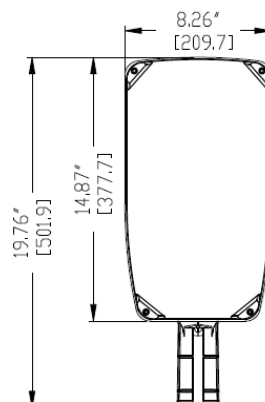
Lower efficiency (LPW) options are also available upon request

Packaging and Weight

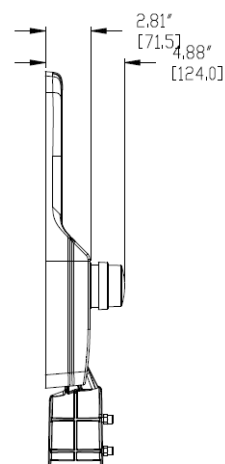
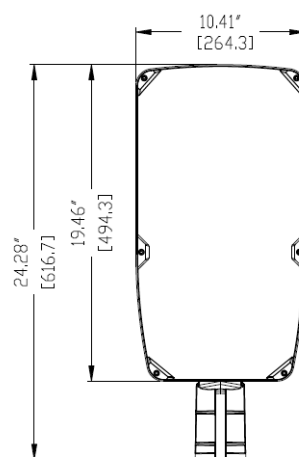
Group	Power	Lighting Fixtures Dimensions	Packaging Dimensions	QTY/ CTN	Gross Weight
S	30	501.9x209.7x130.4mm 19.76" x 8.26" x 5.13"	565x285x290 mm (22.2" x 11.2" x 11.4")	2	9.6kg (21.2lbs)
	50	501.9x209.7x130.4mm 19.76" x 8.26" x 5.13"	565x285x290 mm (22.2" x 11.2" x 11.4")	2	9.6kg (21.2lbs)
	65	501.9x209.7x130.4mm 19.76" x 8.26" x 5.13"	565x285x290 mm (22.2" x 11.2" x 11.4")	2	9.6kg (21.2lbs)
M	90	616.7x264.3x124.0mm 24.28" x 10.41" x 4.88"	680x345x290mm (26.8" x 13.6" x 11.4")	2	14.3kg (31.5lbs)
	100	616.7x264.3x124.0mm 24.28" x 10.41" x 4.88"	680x345x290mm (26.8" x 13.6" x 11.4")	2	14.3kg (31.5lbs)
	120	616.7x264.3x124.0mm 24.28" x 10.41" x 4.88"	680x345x290mm (26.8" x 13.6" x 11.4")	2	14.3kg (31.5lbs)
L	150	757.9x264.7x121.4mm 29.84" x 10.42" x 4.78"	825x345x225mm (32.5" x 13.6" x 8.9")	2	16.6kg (36.6lbs)
	165	757.9x264.7x121.4mm 29.84" x 10.42" x 4.78"	825x345x225mm (32.5" x 13.6" x 8.9")	2	16.6kg (36.6lbs)
	180	757.9x264.7x121.4mm 29.84" x 10.42" x 4.78"	825x345x225mm (32.5" x 13.6" x 8.9")	2	16.6kg (36.6lbs)
	200	757.9x264.7x121.4mm 29.84" x 10.42" x 4.78"	825x345x225mm (32.5" x 13.6" x 8.9")	2	16.6kg (36.6lbs)

Mechanical Dimensions

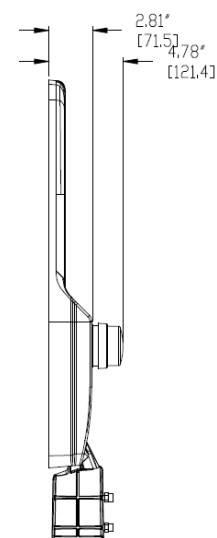
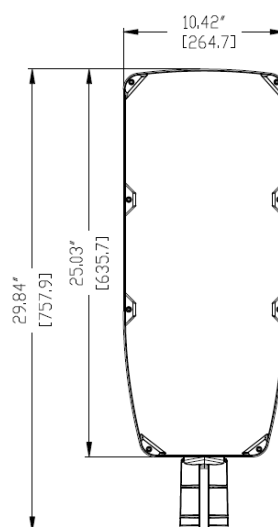
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Ordering Information

Product	Power	Family	CCT	Wireless (COM)	ANSI C136.41 (NEMA)	AC protection unit	Distribution curve	Lumens per watt	Class
JLED-SL	xxxW	MIA1	xx	Wx	Nx	Px	Dxx	LPx	Cx

Ordering Options

Power xxxW	30	
	50	
	65	
	90	
	100	
	120	
	150	
	165	
	180	
	200	
CCT	30 – 3000K	
	40 – 4000K	Standard
	50 – 5000K	
Wx	W0 – Wireless controller is not integrated	Standard
	WM – 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	
	ND – DALI control NEMA base with shorting cap	
Px	P0 – Standard surge protection (10kV) included	Standard
	P1 – JACTP (AC total protection module) included	
Distribution curves (see Photometric Curves section)	D08 - D08 Type II–Medium	
	D09 - D09 Type II–Short	
	D10 - D10 Type II–Medium	
LPx	LP1 – 140 lumens per watt	
	LP2 – 170 lumens per watt	Standard
Pole Diameter	PD1 – 30 – 42 mm	
	PD2 – 50 – 60 mm	
Cx	C1 - Class I installation	Standard
	C2 - Class II installation	

Notes

NWA Limited to 165W

Ordering Example

JLED-SL-050W-MIA-40-W0-NS-P0-D08-LP1-PD2-C1

Description

JLED streetlight of the Mia1 family with 50W, 4000K, no communication, 0 to 10V NEMA base with a shorting cap, 10kV, distribution curve D08, 170 lumens per watt, supports pole diameter of 50-60 mm and Class I installation