

LIGHTING REIMAGINED FOR MODERN CITIES

MESINA is URBIO's durable, high-performance LED luminaire range, designed for **Smart-City Lighting**. With three modular sizes (M/L/XL) and full **Lighting AI integration**, it ensures **efficient, connected, and sustainable** illumination for streets, parks, and highways.



KEY BENEFITS

APPLICATIONS

- MESINA M** Parks, pathways, residential streets
- MESINA L** Urban streets, boulevards, mixed traffic
- MESINA XL** Highways, motorways, large intersections

Adaptive CCT (2700–5700K) with smart dimming for optimal efficiency.

PERFORMANCE	SUSTAINABILITY	EASE & INTEGRATION
- High optical efficiency: up to 193 lm/W luminaire⁽¹⁾ - Wide power range: 5–180 W - Excellent thermal management and low maintenance design - Lifetime L90B10 @ 100,000 hours, 5-year warranty	- Reduced CO₂ emissions through adaptive dimming - Optional photovoltaic compatibility (12/24 V DC) for off-grid operation - Long lifecycle = reduced material consumption 100 % recyclable aluminum	- Tool-free opening + quick-swap modules - Built-in Angle Indexer with markings every 5° - Compatible with NEMA 7-pin, PLC, Zhaga Book 18, DALI/D4i, LoRa, 4G - Built-in Lighting AI connectivity.

SMART CONTROL & CONNECTIVITY

LoRa, PLC, 4G



KAMSENS

NEMA 7-pin
Zhaga Book 18



Centralized Management via Lighting AI

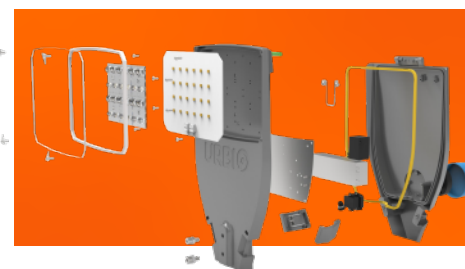
- Real-time status, voltage, temperature & energy readings
- Live map of all lighting points
- Dynamic scenarios & scheduled on/off
- Automatic fault alerts, self-diagnosis & predictive maintenance
- Consumption analytics & exportable reports

Communication Technologies

- LoRa, PLC, 4G
- NEMA / Zhaga smart-socket ready
- DALI / D4i control protocol compliant

Sensor Integration

- PIR sensors (pedestrian activation)
- Radar sensors (vehicle detection)
- KAMSENS multifunctional sensor: motion, noise, fog, rain, snow + adaptive color temperature



TECHNICAL SPECIFICATIONS

This section highlights **MESINA**'s performance-driven design - from optical efficiency and electrical stability to mechanical durability and IP/IK protection. **Fully smart-ready**, it supports **modern control protocols** and **connectivity options**.

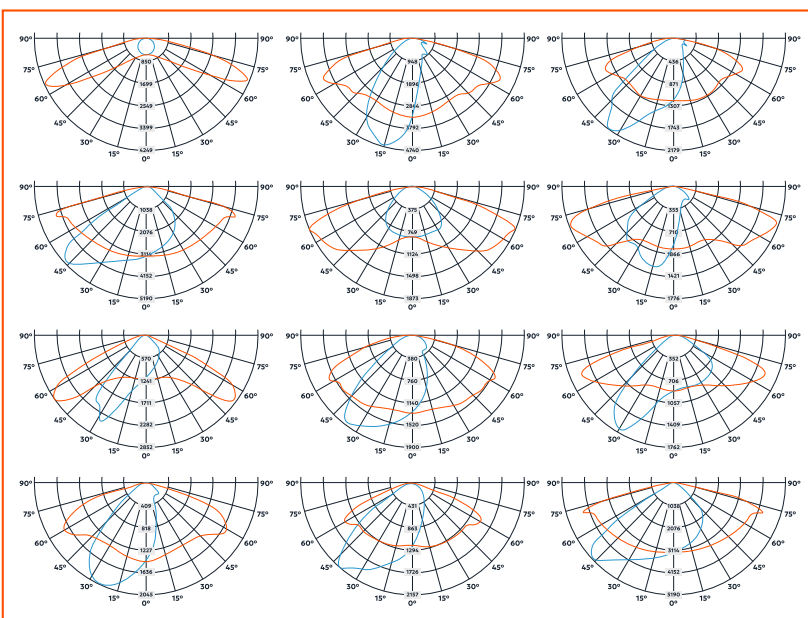
GENERAL

- **Lifetime:** L90B10 @ 100,000 h
- **Warranty:** 5 years
- **Sizes:** M, L, XL

OPTICAL	M - Medium	L - Large	XL - Extra large
LED Quantity	24 / 36	48 / 72	80 / 120
LED Type	5050 Series		
CCT	2700 K / 3000 K / 4000 K / 5700 K $\pm 10\%$ ⁽²⁾		
CRI	≥ 70 / ≥ 80 ⁽¹⁾		
Lens	PMMA / PC		
Distribution Angle	138°		



PHOTOMETRIC DISTRIBUTIONS



ELECTRICAL

Power	5-180 W
Voltage	220-240 V AC
Power factor	≥ 0.95
Frequency	50/60 Hz
SPD	10 kV (20 kV optional)
Insulation	Class I / Class II ⁽²⁾

MECHANICAL

Housing	Die-cast aluminum
Finish	Electrostatic powder coating
Ingress Protection	IP66 / IP67 ⁽²⁾
Impact Resistance	IK09 / IK10
Weight	M: 3.6 kg L: 6.5 kg XL: 8.0 kg

CONNECTIVITY

Smart socket	NEMA 7-pin / Zhaga Book 18
Protocols	DALI / D4i / Lighting AI
Communications	LoRa / PLC / 4G
Sensors	PIR / Radar / KAMSENS

ANGLE INDEXER & MOUNTING

- Adjustable tilt -90° to +90°, markings every 5°
- Best tilt option 180°
- Universal pole mount Ø 60-32 mm
- Enables fast, safe installation

RENEWABLE ENERGY COMPATIBILITY

- Full compatibility with solar systems
- Operation via 24/12 V DC or inverter
- Ideal for off-grid and remote areas

CERTIFICATIONS & COMPLIANCE



MESINA meets all major **European safety, performance, and environmental standards**. **Certified for durability, protection, and smart-lighting compatibility**, it ensures reliable operation in any urban application.

CE, ENEC, ENEC+, RoHS, REACH, WEEE

IP66 / IP67, IK09 / IK10, SPD 10-20 kV, Class I / Class II ⁽²⁾

DALI/D4i, NEMA, Zhaga, LoRa, PLC

Corporate standards: ISO 9001, ISO 14001, ISO 45001

Meets EN standards for road lighting (EN 13201, EN 12464)

⁽¹⁾ All photometric data in this leaflet — luminous flux and luminaire efficacy — refer to CRI 70 configurations. Photometric data for CRI 80 on request.
⁽²⁾ Applies up to 150 W (MESINA XL): Class I, IP66, ambient temperature -40 °C to +50 °C, CCT 3000 K / 4000 K / 5700 K.