

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 (5700–3000K) with smart dimming for optimal efficiency.

PERFORMANCE	SUSTAINABILITY	EASE & INTEGRATION
<ul style="list-style-type: none"> • High optical efficiency: ≥ 160 lm/W luminaire/≥ 215 lm/W LED • Wide power range: 180–15 W • Excellent thermal management and low maintenance design • Lifetime > 50,000 hours, • 5-year warranty 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

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

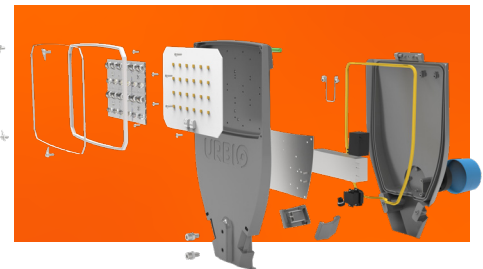
Sensor Integration

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

NEMA 7-pin Zhaga Book 18



KAMSENS



TECHNICAL SPECIFICATIONS

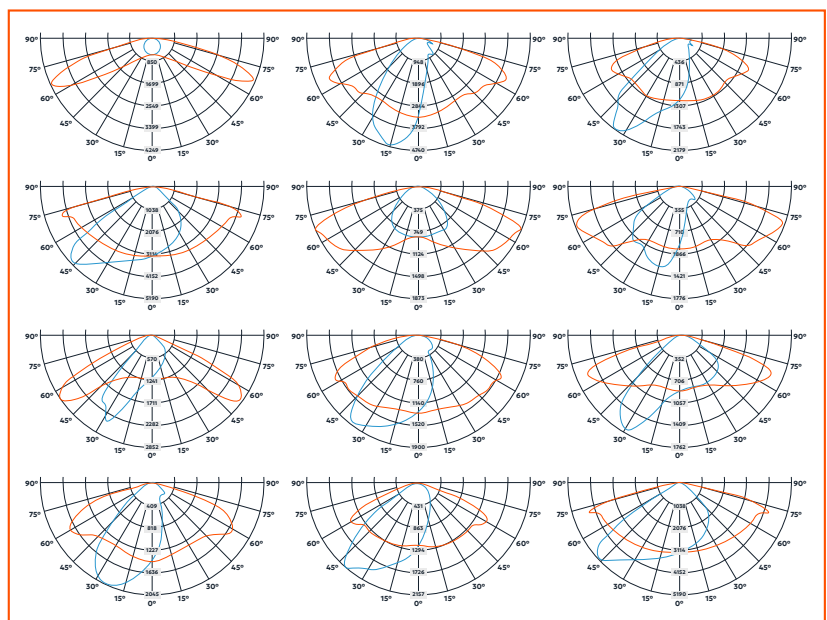
This section highlights **MESINA's** performance-driven design - from optical efficiency and electrical stability to mechanical durability and IP/IK protection. **Fully smart-ready**, it supports **modern control protocols** and **connectivity options**.

GENERAL			
• Lifetime: 50,000 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	3000 K / 4000 K / 5700 K ±10%		
CRI	≥ 80		
Lens	PMMA / PC		
Distribution Angle	138°		



PHOTOMETRIC DISTRIBUTIONS

ELECTRICAL	
Power	15-180 W
Voltage	100-277 V AC
Power factor	≥ 0.95
Frequency	50/60 Hz
SPD	10 kV (20 kV optional)
Insulation	Class I



MECHANICAL			
Housing	Die-cast aluminum		
Finish	Electrostatic powder coating		
Ingress Protection	IP67		
Impact Resistance	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, RoHS, REACH, WEEE
IP67, IK10, SPD 10-20 kV, Class I
DALI/D4i, NEMA, Zhaga, LoRa, PLC
Corporate standards: ISO 9001, ISO 14001, ISO 45001
Meets EN standards for road lighting (EN 13201, EN 12464)