

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

PERFORMANCE	SUSTAINABILITY	EASE & INTEGRATION
- High optical efficiency: $\geq 193 \text{ lm/W luminaire} / \geq 215 \text{ lm/W LED}$ - Wide power range: 180–10 W - Excellent thermal management and low maintenance design - Lifetime > 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

NEMA 7-pin
Zhaga Book 18



LoRa, PLC, 4G



KAMSENS

Centralized Management via Lighting AI

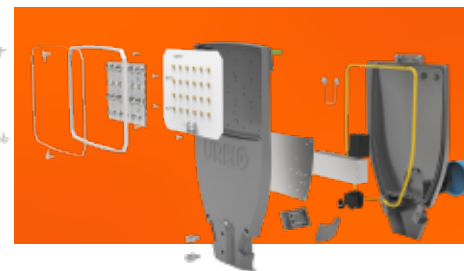
- Real-time status, voltage, temperature & energy readings
- Live map of all lighting points
- Dynamic scenarios & scheduled on/off
- Automatic fault alerts, self-diagnosis & predictive maintenance
- Consumption analytics & exportable reports

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



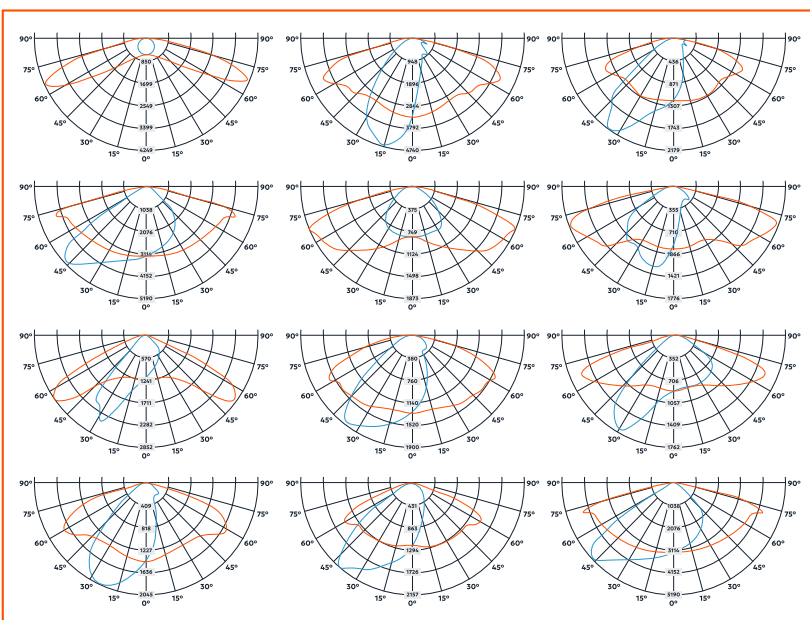
TECHNICAL SPECIFICATIONS

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: 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	3000 K / 4000 K / 5700 K $\pm 10\%$		
CRI	≥ 80		
Lens	PMMA / PC		
Distribution Angle	138°		



PHOTOMETRIC DISTRIBUTIONS



ELECTRICAL	
Power	10-180 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	IP66		
Impact Resistance	IK09		
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 $+90^\circ$, markings every 5°	
• Best tilt option 180°	
• Universal pole mount $\varnothing 60-32$ 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)