



### LIGHTING REIMAGINED FOR MODERN CITIES

Moonlight is URBIO's versatile LED luminaire platform for Smart-City Lighting, offering three configurations Street, Suspended, and Top and full Lighting AI integration for efficient, connected, and sustainable urban illumination.

### KEY BENEFITS

#### Applications

- MOONLIGHT STREET** - Highways, main boulevards, large urban roads
- MOONLIGHT SUSPENDED** - Residential streets, neighborhood pathways
- MOONLIGHT TOP** - Parks, gardens, green corridors, recreational areas

PERFORMANCE	SUSTAINABILITY	EASE & INTEGRATION
<ul style="list-style-type: none"> <li>High-efficiency LED modules with optional 24 / 48 pcs</li> <li>Power range 7-90W</li> <li>Lifetime 100,000 h</li> <li>LED CCT: 1800K-5700K ±10%</li> <li>CRI: &gt;70 / &gt;80 options</li> <li>Surge protection 10kV / 20kV</li> <li>Compatible with 0-10V / DALI2-D4I dimming</li> </ul>	<ul style="list-style-type: none"> <li>Reduced CO<sub>2</sub> emissions through optimized consumption</li> <li>100% recyclable aluminum housing</li> <li>Long-life LEDs reduce maintenance waste</li> <li>Optional ambient RGB, Tunable White, RGBW for environmentally adaptive lighting</li> </ul>	<ul style="list-style-type: none"> <li>Tool-less access for easy maintenance</li> <li>Available in three design styles from a single luminaire platform</li> <li>Compatible with Lighting AI remote management</li> <li>NEMA / Zhaga / NEMA+Zhaga connectivity options</li> <li>Supports multifunctional sensors (MNPL, Kamsens) with real-time alerts</li> </ul>

### 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
- Dynamic dimming scenarios & on/off scheduling
- Live map of all lighting points
- Fault alerts & self-diagnostics
- Power consumption analytics & exportable reports
- Full integration with sensors for adaptive lighting
- Color temperature shifting through Kamsens
- Operation via custom lighting profiles

#### Communication Technologies

- NEMA 7-pin (opt.)
- Zhaga Book 18 (opt.)
- LoRa / PLC
- DALI / D4I smart control

#### Sensor Integration

- MNPL Sensor - motion & presence-based adaptation
- Kamsens Multisensor - noise, fog, rain, snow & color-temperature control

# TECHNICAL SPECIFICATIONS



<b>GENERAL</b>	<b>Power Range:</b> 90-7W <b>Lifetime:</b> 100,000 h <b>Warranty:</b> 5 years
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OPTICAL	
LED Quantity	24 / 48 pcs
LED Type	LED Module
CCT	1800K-5700K ±10%
CRI	>70 / >80
Lens	PMMA / PC depending on version

ELECTRICAL	
Voltage:	220 - 240 Vac (50/60 Hz)
Power Factor:	≥ 0.9
Electrical Class:	Class I / Class II
Operating Temperature:	-40°C to +55°C
Surge Protection:	10 kV / 20 kV
CLO Function:	Yes

MECHANICAL	
Housing:	Aluminum die-cast
Diffuser:	Glass / Polycarbonate
IP Rating:	IP66
IK Rating:	IK09
Maintenance:	Tool-less access
Dimensions:	<b>Street:</b> 503×140 mm <b>Suspended:</b> 504×645 / 545 / 493 mm <b>Top:</b> 503×705 / 605 mm
Weight:	max 10 kg
Installation Height:	4 m - 12 m
Compatible with:	32 / 48 / 60 / 76 mm pole adapters

CONNECTIVITY	
Dimming:	0-10V / DALI2-D4I
Smart sockets:	NEMA / Zhaga
Special features:	RGB ambient ring, Tunable White, RGBW

RENEWABLE ENERGY COMPATIBILITY	
<ul style="list-style-type: none"> <li>Fully compatible with solar systems</li> <li>Operates via 24V / 12V DC or inverter</li> <li>Suitable for off-grid and remote installations</li> </ul>	



## CERTIFICATIONS & COMPLIANCE

Moonlight meets all major European safety, environmental and smart-lighting standards.

<b>CE, ENEC / ENEC+, RoHS, REACH, WEEE</b>
Standards: EN 1-60598, EN 3-2-60598,
EN 62262 (IK), LM80, EMC EN 55015 / EN 61000

