

LIGHTING REIMAGINED FOR MODERN CITIES

Moo 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

MOON STREET - Highways, main boulevards, large urban roads

MOON - Residential streets, neighborhood pathways

MOON - Parks, gardens, green corridors, recreational areas

PERFORMANCE	SUSTAINABILITY	EASE & INTEGRATION
- High-efficiency LED modules with optional 24 / 48 pcs - Power range 7-90 W - Lifetime L90B10 @ 100,000 h - LED CCT: 1800K-5700K $\pm 10\%$ - CRI: >70 / >80 options - Surge protection 10kV / 20kV - Compatible with 0-10V / DALI2-D4I dimming	- Reduced CO₂ emissions through optimized consumption 100% recyclable aluminum housing - Long-life LEDs reduce maintenance waste - Optional ambient RGB for environmentally adaptive lighting	- Tool-less access for easy maintenance - Available in three design styles from a single luminaire platform - Compatible with Lighting AI remote management - NEMA / Zhaga / NEMA+Zhaga connectivity options - Supports multifunctional sensors (MNPL, Kamsens) with real-time alerts

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

GENERAL

Power Range: 7-90W Lifetime: L90B10 @ 100,000 h Warranty: 5 years

OPTICAL

LED Quantity	24 / 48 pcs
LED Type	LED Module
CCT	1800K-5700K $\pm 10\%$
CRI	>70 / >80 ⁽¹⁾
Luminous flux	1,029 – 16,830 lm ⁽¹⁾
Luminaire efficacy	147 – 187 lm/W ⁽¹⁾
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

CONNECTIVITY

Dimming:	0-10V / DALI2-D4I
Smart sockets:	NEMA / Zhaga
Special features:	RGB ambient ring (optional)

RENEWABLE ENERGY COMPATIBILITY

- Fully compatible with solar systems
- Suitable for off-grid and remote installations

MECHANICAL

Housing:	Aluminum die-cast
Diffuser:	Glass / Polycarbonate
IP Rating:	IP66
IK Rating:	IK010
Maintenance:	Tool-less access
Dimensions:	Street: Ø503 × 186 mm / Ø503 × 178 mm (630 mm length) / Ø503 × 233 mm Suspended: Ø503 × 645 / 545 / 493 mm Top: Ø503 × 705 / 605 mm
Weight:	max 10 kg
Installation Height:	4 m – 12 m
Compatible with	32 / 48 / 60 / 76 mm pole adapters



CERTIFICATIONS & COMPLIANCE

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

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

Standards: EN IEC 60598-1:2021/A11:2022, EN 60598-2-3:2003/A1:2011, EN 62262:2002/A1:2021 (IK), LM80, EMC EN 55015 / EN 61000, EPRS 003:2025-04, EPRS 002:2025-04

⁽¹⁾ All photometric data in this leaflet — luminous flux and luminaire efficacy — refer to 4000 K / CRI 70 configurations at $t_q 25^\circ\text{C}$, across all three models. Photometric data per model and for other colour temperatures on request; CRI 80 is certified at 3000 K only.

