

OPTIO NANO

24 LED



IP66
Ingress Protection



IK08
Impact Resistance



4kg Weight



Electrical Class I



0.046m² Wind Area



-20 to +35°C Ambient



LED Light Source

SPECIFICATION

- ✓ LED colour temperature 2700K, 3000K or 4000K
- ✓ Colour rendering index >70
- ✓ Projected L90 after 100,000 hours
- ✓ Power factor >0.95 at full load
- ✓ Polyester powder coat finish in light grey, dark grey, black or a bespoke colour
- ✓ High quality high pressure die cast LM6 aluminium components
- ✓ Stainless steel fixing screws with stainless steel inserts in pivot
- ✓ High efficiency PMMA lenses
- ✓ Ventilation (breather) gland for pressure equalisation in the LED module and gear housing (optional)
- ✓ Easily replaceable hinged light engine
- ✓ Coloured optical distribution identifier
- ✓ CLO available
- ✓ PowerSet feature - Field adjustable, integral power output selection device (optional)
- ✓ Controls - NEMA 3, 7, Miniature Photocell and Zhaga Book 18 (SR) socket (top and bottom)
- ✓ Part Night Dimming (PND) with manual dimming override option
- ✓ DALI-2 and D4i certified control gear for use with CMS and external sensors/devices
- ✓ Optional surge protection 10kV/10kA
- ✓ MountSet (patent granted) - Universal mounting system to interface with multiple column/bracket diameters or length
- ✓ UMSUG codes available for full product range



International Dark-Sky Association approved Optio Nano 24 LED. Compliant when using a colour temperature of 3000K or below and at zero degree tilt.



PowerSet

The **PowerSet** module allows on site power adjustment providing maximum flexibility both in-situ and for stock holding. Each module accommodates the selection of any one of the range of UMSUG coded system powers for Optio Nano.

RANGE OVERVIEW

| Type | System Power | Road Optics | Area Optics | CCT | Lumen Output | CRI |
|---------------|--------------|-------------|-------------|-----------------------|---------------|-----|
| Optio Nano 24 | 6-50W | ✓ | ✓ | 2700K, 3000K or 4000K | Up to 8,546lm | >70 |

ELECTRICAL CHARACTERISTICS

| | |
|------------------------------------------|--------------------------------------------------------------------------------------------------|
| System Power | 6-50W |
| LED CCT | 2700K, 3000K & 4000K |
| LED CRI | >70 |
| Lumen Output | Up to 8,546lm |
| Lumen Maintenance | Projected L90 after 100,000 hours |
| Drive Current | 100-1,050mA |
| Driver Output | Constant current output with AM dimming |
| Power Factor (Full Load/Half Load) | 0.95/0.90 |
| Operational Voltage | 220-240VAC rms |
| Operating Frequency | 50/60Hz |
| Inrush Current (Apk/50%-S) | 26A/180µS |
| Running Current (max) | 217mA |
| Surge Protection (COM/DIF) | 10kV/6kV |
| Additional Surge Protection (on request) | 10kV/10kA |
| Lighting Controls Options | NEMA 3, 7, Miniature Photocell, Zhaga Book 18 (SR) socket (top & bottom), PND and CMS compatible |
| Dimming Protocols | DALI-2 & D4i certified control gear for use with CMS and external sensors/devices |

MECHANICAL CHARACTERISTICS

| | |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Housing Material | High quality high pressure die cast LM6 aluminium components |
| Housing Finish | Chromate free pre-treatment, polyester powder coat, light grey (RAL9006), dark grey (RAL7022), black (RAL9005) or bespoke colours on request |
| Lens Material | PMMA |
| Ingress Protection Rating | IP66 |
| Weight | 4kg |
| Wind Area | 0.046m ² |
| Impact Resistance Rating | IK08 |
| Mounting Methods | Post top 60mm or 76mm/side entry 34mm, 42mm, 60mm or 76mm |
| Mounting Inclination | -10°, -5°, 0°, 5°, 10° |
| Photometric Centre | 225mm (to centre of PCB) |

SHIELD OPTIONS

| | |
|----------------------|------------|
| Universal Front/Rear | 83SHD72365 |
| Side | 83SHD72366 |

