

# OPTIO NANO



## SPECIFICATION

- ✓ LED colour temperature PC-Amber\*, 2200K, 2700K, 3000K or 4000K
- ✓ Colour rendering index >70 (\*> 55 for PC-Amber)
- ✓ 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



IP66  
Ingress Protection



IK08  
Impact Resistance



4kg Weight



Electrical Class I



0.046m² Wind Area



-20 to +35°C Ambient



LED Light Source



International Dark-Sky Association approved Optio Nano. 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	5-40W	✓	✓	PC-Amber*, 2200K, 2700K, 3000K or 4000K	Up to 6136lm	>70 (*>55)

## ELECTRICAL CHARACTERISTICS

System Power	5-40W
LED CCT	PC-Amber*, 2200K, 2700K, 3000K or 4000K
LED CRI	>70 (*>55)
Lumen Output	Up to 6,136lm
Lumen Maintenance	Projected L90 after 100,000 hours
Drive Current	96-1,050mA
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)	171mA
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 <sup>2</sup>
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