

OPTIO NANO

24 LED



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



IP66
Ingress Protection



IK08
Impact Resistance



4kg Weight



Electrical Class I



0.046m² Wind Area



-20 to +35°C Ambient



LED Light Source



Certified by DarkSky.org

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



FOR MORE INFORMATION

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All information detailed within this datasheet is accurate at the date of issue.
 The information provided is subject to change at our discretion. If any questions arise or extra information is required, please contact TRT Lighting directly. Optio Nano 24 LED Datasheet issue Apr 2026.