

REL – UV Lamps

C4 Nomad and C4 Nomad Go

The REL Model C4 Nomad and Nomad-GO are UV-A Inspection Lamp utilising the latest in safe high output UV-A LED technology. This lamp is a highly manoeuvrable lightweight solution that allows operator flexibility with a rechargeable 18V battery. That maximizes operator safety and time on task.



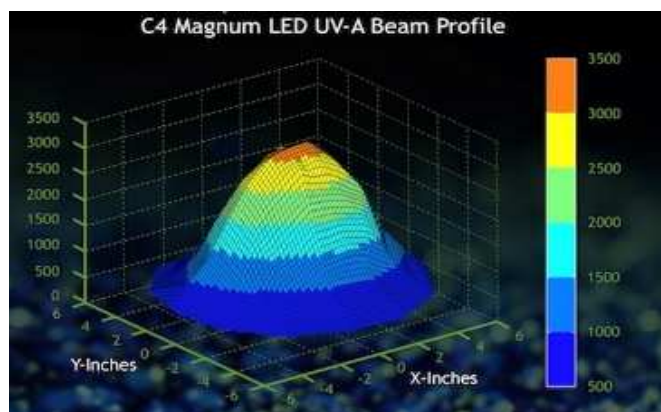
Nomad

Nomad-Go

The C4 Nomad contains 4 high flux-UV LED emitters that have a built-in static-electric discharge circuit to allow the lamp to perform in all environments regardless of ambient conditions. The REL LED C4 Nomad-GO integrates both UV-A and white light emitters.

The C4 Nomad and Nomad-GO are designed for all intensity requirements of Fluorescent Penetrant Inspection (FPI) and Magnetic Particle Inspection (MPI).

The C4 Nomad and Nomad-GO Glo-Black LED UV-A Inspection Lamp can both provide a 220mm diameter of UV-A intensity > 1000 $\mu\text{W}/\text{cm}^2$ at 38cm. The integral filter in the UV-A emitter limits the visible light at 20 lux at 38cm and 5 lux at 90cm. The LED white light provides an intensity > 7500 lux at 38cm. The lamp's electrical components are sealed and passively cooled within an engineered finned housing manufactured from military grade aluminium. This allows the lamp to perform in the harshest environments.



	Parameters
Performance Attributes	
Max Irradiance (38cm)	5000 $\mu\text{W}/\text{cm}^2$
Peak Wavelength	365 \pm 5nm
Irradiance at Peak Wavelength (38cm)	>200 $\mu\text{W}/\text{cm}^2$
Typical Irradiated Area (38cm)	Circular Spot 280cm >1000 $\mu\text{W}/\text{cm}^2$ (347-382nm)
Emission Spectrum	
Full Width at Half Max	\leq 15nm
Longest Wavelength at Half Max	\leq 380nm
Excitation Irradiance (347-382nm)	>2500 $\mu\text{W}/\text{cm}^2$
Wavelength Drift (at 21 degC ambient)	\leq 3nm
Working Distances	
ASTM	Min WD \leq 12.5cm
RRES 90061	Min WD =38cm Max WD = 90cm
Typical Visible Emission	
ASTM Range (400-760nm)	\leq 21.5lx
RRES 90061 Range (390-800nm)	\leq 20lx at 38cm \leq 5lx at 90cm
Physical Attributes	
Operating Temp	0-49 deg C
Max Housing Temp (21 deg C ambient)	50 deg C
Power Supply	18V Milwaukee Li Batt
Weight	1.27kg
Power In	90-264 VAC/ 47-63Kz <0.6A
Specification Compliance	ASTM E3022 RRES90061

Units come with two batteries, and a certificate of compliance so you are always ready to go.

C4 Magnum and C4 Magnum Go

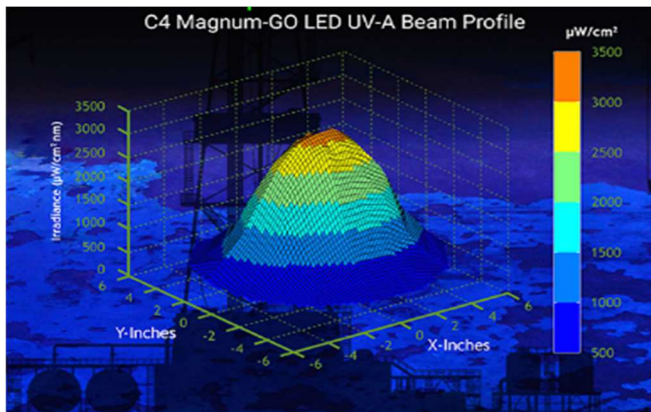
The REL LED C4 Magnum and Magnum-GO integrates have similar characteristics to the Nomad, however they operate using mains power. The Magnum is purely a UV lamp whilst the Magnum-Go integrates a white light source as well. The cable length is 4.8m



Magnum

Magnum-Go

REL – UV Lamps



Both the Magnum and Nomad can be purchased in the Liquid format which provides a 2m light guide.

Profusion



REL's booth mounted Glo-Black Profusion LED UV-A Inspection Lamp modules utilise the latest in safe high output LED technology. The Profusion is an expandable modular solution for inspection and ambient lighting.

The Profusion is designed for all intensity requirements of Fluorescent Penetrant Inspection (FPI) and Magnetic Particle Inspection (MPI). Each Profusion module provides a 220mm diameter of UV-A intensity > 1000 µW/cm² at 38cm. The integral filter in the UV-A emitter limits the visible light at 20 lux at 38cm and 5 lux at 90cm. The LED white light provides an intensity > 7500 lux at 38cm. Each Profusion module contains LED emitters with a built-in static-electric discharge circuit. The lamp's electrical components are sealed and passively cooled with an engineered finned housing manufactured from military grade aluminium. The IP68 rated housing allows the lamp to perform in all environments regardless of ambient conditions. All lamps are supplied with a Certificate of Conformance and a serialised validation report.

Parameters	
Performance Attributes	
Max Irradiance (38cm)	5000 µW/cm ²
Peak Wavelength	365 ± 5nm
Irradiance at Peak Wavelength (38cm)	>200 µW/cm ²
Typical Irradiated Area (38cm)	Circular Spot 280cm >1000 µW/cm ² (347-382nm)
Emission Spectrum	
Full Width at Half Max	≤15nm
Longest Wavelength at Half Max	≤380nm
Excitation Irradiance (347-382nm)	>2500 µW/cm ²
Wavelength Drift (at 21 degC ambient)	≤3nm
Working Distances	
ASTM	Min WD ≤12.5cm
RRES 90061	Min WD = 38cm Max WD = 90cm
Typical Visible Emission	
ASTM Range (400-760nm)	≤21.5lx
RRES 90061 Range (390-800nm)	≤20lx at 38cm ≤5lx at 90cm
Physical Attributes	
Operating Temp	0-49 deg C
Max Housing Temp (21 deg C ambient)	50 deg C
Cord Length	Custom
Power Supply	Custom
Weight	1.4kg
Power In	90-264 VAC/ 47-63Kz <0.6A
Specification Compliance	ASTM E3022 RRES90061

