



CPUG Series

35W LED Flood Light

The CPUG Series is designed to emit zero radio interference, whilst maintaining superior luminous output in a compact size enclosure.

CPUG Series is purpose engineered for applications that are highly sensitive to Electro Magnetic Emissions, typically produced by most LED luminaires.

CPUG Series produces NO EMI, it is virtually undetectable and is guaranteed to not cause any interference with vital communications and data logging equipment.

Designed and manufactured in Australia using only the highest quality components, the CPUG LED Luminaire Series is designed specifically for use in underground mining applications where reliability and performance is required.

Designed for use in:

- Underground Drill Rigs (Jumbos)
- Underground General Lighting
- Underground Haul Trucks
- Underground Wheel Loaders (Boggers)
- Other EMI Sensitive Applications



Born to live underground

The CPUG LED Luminaire Series is purpose built for lighting installations on UNDERGROUND mining machines. All performance characteristics of the CPUG Series have been optimised for operation in poorly lit, humid and hot conditions of underground mining.

Zero EMI - no interruptions

Confined underground environments are particularly sensitive to Electro Magnetic Emissions. EMI effects are detrimental on all kinds of electronic communication, navigation and data logging equipment.

CPUG LED Series was engineered from the ground up to produce NO Electro Magnetic Interferences.



COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

IP66

HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

3
YEARS

3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

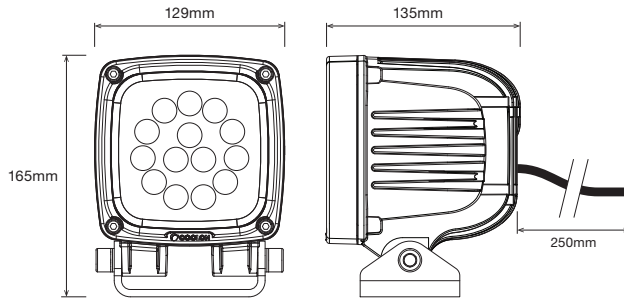


PROUDLY MADE IN AUSTRALIA

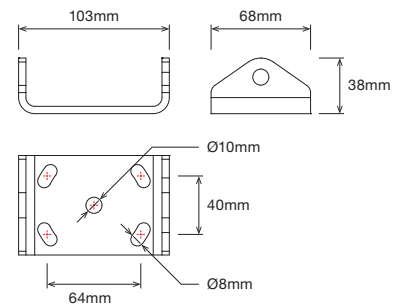
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

DIMENSIONS

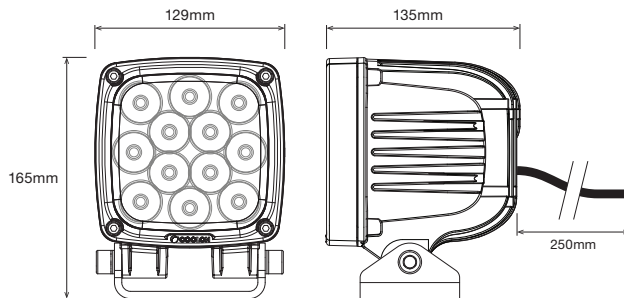
CP14UG Luminaire



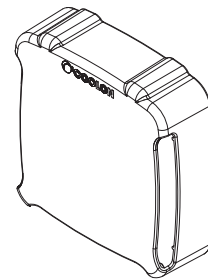
Standard Bracket



CP12UG Luminaire

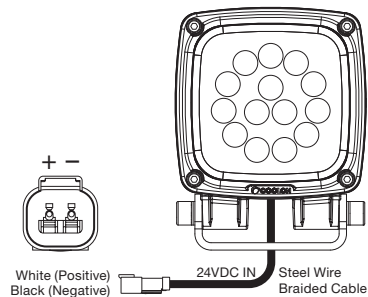


Optional Clip-on Cover
ACC-CP12-COVER (available separately)

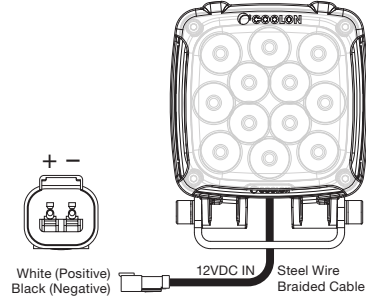


CONFIGURATION

CP14UG Luminaire



CP12UG Luminaire



TECHNICAL SPECIFICATIONS

| | | |
|--|---|------------------|
| Product | CPXXUG LED Flood Light | |
| Model | CP14UG | CP12UG |
| Optical Characteristics | | |
| Luminous Flux (Photometered) | 2,525 – 2,818 lm | 3,695 – 4,776 lm |
| CCT | CWT / WWT | |
| CRI | >70 | |
| Electrical Characteristics (Luminaire) | | |
| Power Consumption | 35W | 50W |
| Nominal Voltage | 26VDC | 12VDC |
| Voltage Range | 23 – 28VDC | 10 – 15VDC |
| Cable Type | UL2095, 16 AWG x 2C Braid PVC, UV Resistant | |
| Cable Diameter | 7.5mm | |
| Cable Length | 250mm | |

| | |
|---------------------------------|--|
| Environmental | |
| IP Rating | IP66 |
| Impact Rating | IK09 |
| Salt Spray Tested | Yes |
| Operating Temp. Range | -20 to +50°C |
| Thermal Management Type | Active/Continuous |
| Expected Lifespan | 50,000 Hours to 70% Brightness |
| Material Composition (Body) | LM6 Aluminium Alloy (<0.1% copper content) |
| Material Composition (Diffuser) | High Impact/Shock Proof - Grilamid TR |
| Material Composition (Bracket) | Stainless Steel |
| Mounting/Bracket Type | Standard |
| Angle Adjustment | Free aiming range -30° to +30° |

| | |
|-------------------------|-------------------|
| Weight/Packaging | |
| Luminaire Weight | 2.1kg |
| Bracket Weight | 0.4kg (STB) |
| Packaging Dimensions | 140 x 175 x 160mm |
| Packaging Weight | 2.7kg |

| | |
|-----------------|--|
| Warranty | |
| Warranty | 3 years warranty as standard 5 years extended warranty optional |

¹ Optical and electrical characteristics are measured using Cool White LEDs (CWT)

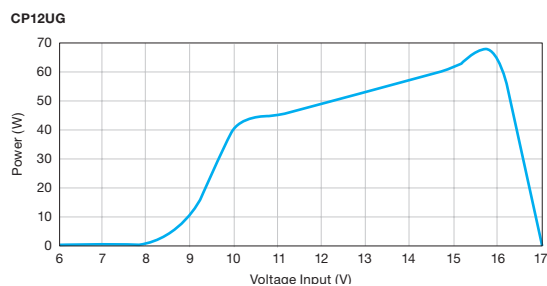
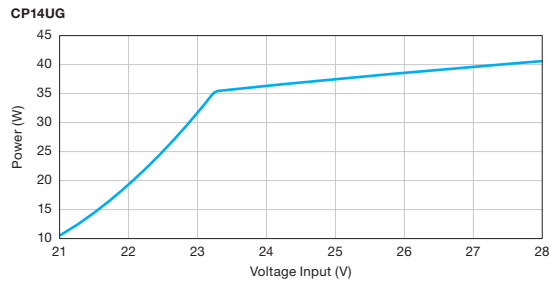
² Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

COLOUR TEMPERATURES

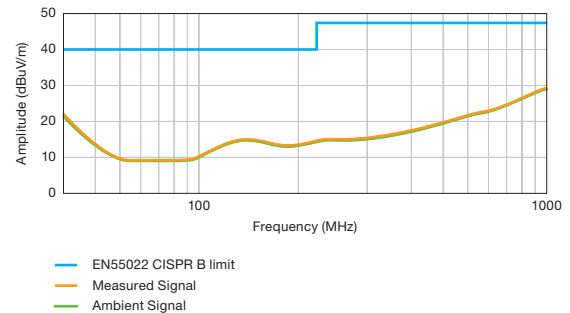


All colour temperatures are indicative. Some variation can occur.

SUPPLY VOLTAGE VS POWER ¹



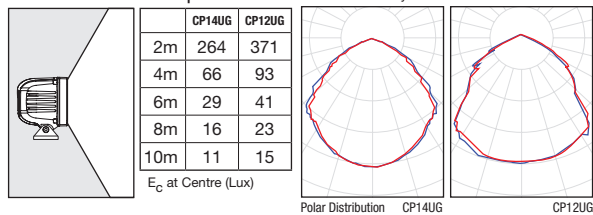
MINIMAL RADIATED EMI ¹



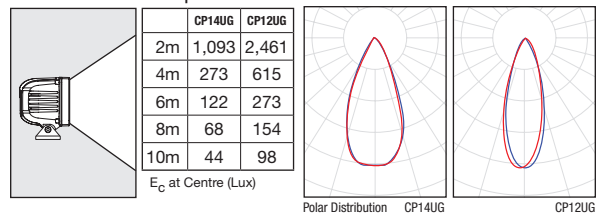
¹Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behavior may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

ILLUMINANCE AT DISTANCE

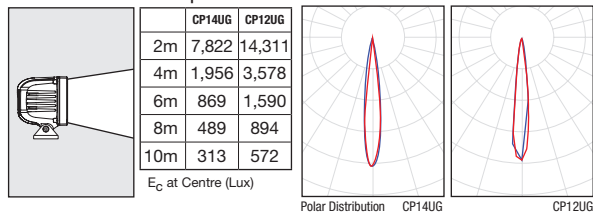
NOP Extra Wide Optics



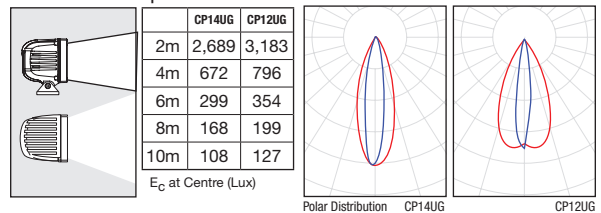
MEDIUM Beam Optics



NARROW Beam Optics



OVAL Beam Optics



ORDERING EXAMPLE

CP14UG - CWT - NOP

PRODUCT COLOUR TEMP OPTICS

| PRODUCT | COLOUR TEMP | | OPTICS | |
|---------|-------------|------------|--------|-------------------|
| CP14UG | CWT | Cool White | NOP | Extra Wide Optics |
| CP12UG | WWT | Warm White | MEDIUM | Medium Optics |
| | | | NARROW | Narrow Optics |
| | | | OVAL | Oval Optics |

ASSOCIATED PRODUCTS

| PART # | DESCRIPTION |
|----------------|---------------|
| ACC-CP12-COVER | Clip-on cover |