



For a video demonstration, please scan the QR Code or visit <http://goo.gl/SpC47>

 **COOLON**

CP14-UG

35W LED Flood Light

The CP14-UG is designed to emit zero radio interference, whilst maintaining superior luminous output in a compact size enclosure.

CP14-UG is purpose engineered for applications that are highly sensitive to Electro Magnetic Emissions, typically produced by most LED luminaires.

CP14-UG 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 CP14-UG LED Luminaire 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 CP14-UG LED Luminaire is purpose built for lighting installations on UNDERGROUND mining machines. All performance characteristics of the CP14-UG 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.

CP14-UG LED 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.



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.



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.



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.



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.



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.



EXTRA LOW VOLTAGE OPERATION

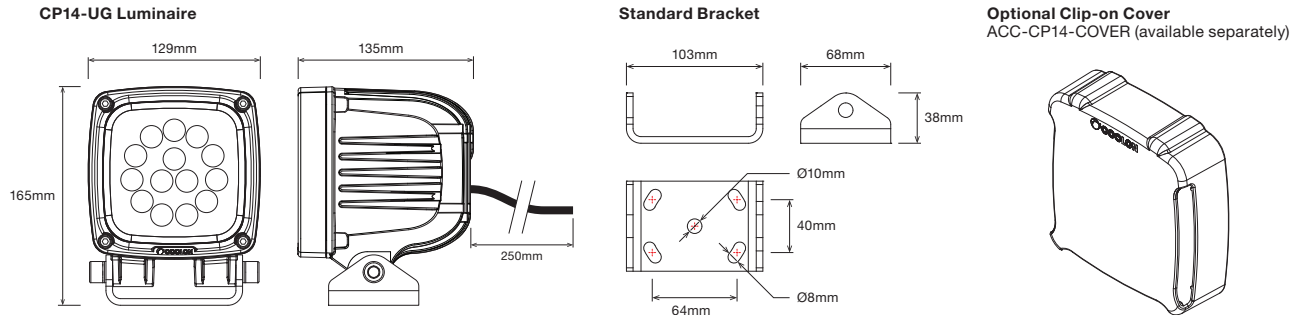
Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.



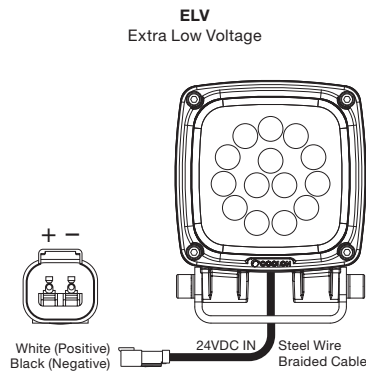
PROUDLY MADE IN AUSTRALIA

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



CONFIGURATION



TECHNICAL SPECIFICATIONS

Product	
Model	CP14-UG
Optical Characteristics	
Luminous Flux (Photometered)	2160 lm
Luminous Flux (LED Lumens)	3250 lm
CCT	Cool White 5500 – 6900K Warm White 2700 – 3000K
CRI	>70
Electrical Characteristics (Luminaire)	
Power Consumption	35W Typical, 38W Start
Nominal Voltage	26VDC
Voltage Range	23 – 28VDC
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

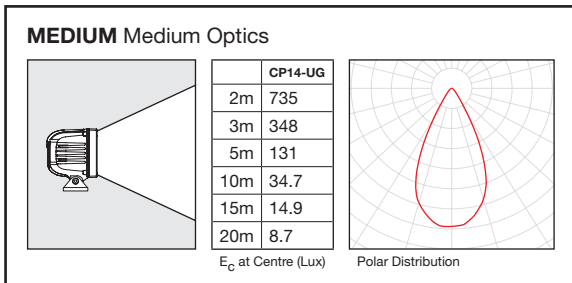
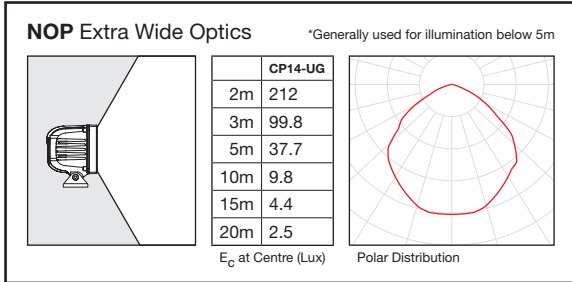
Warranty	
Warranty	3 years warranty as standard 5 years extended warranty optional

COLOUR TEMPERATURES

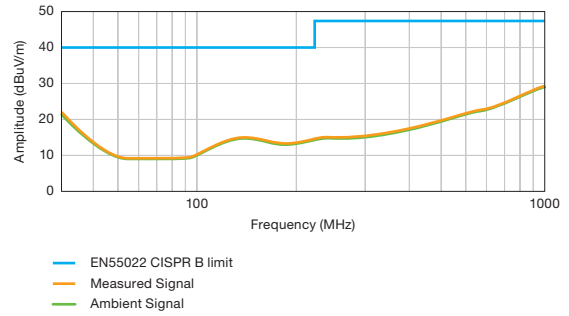


All colour temperatures are indicative. Some variation can occur.

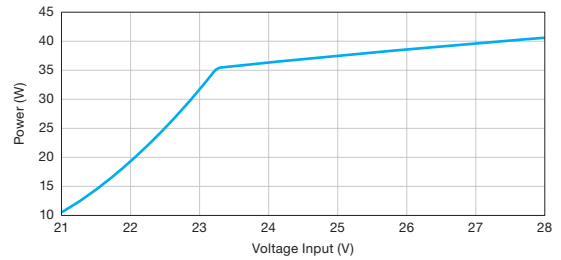
ILLUMINANCE AT DISTANCE



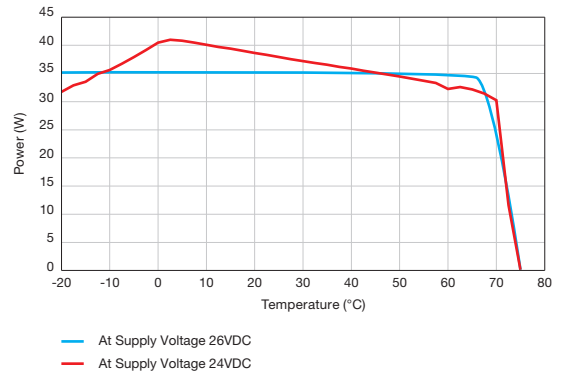
MINIMAL RADIATED EMI ¹



SUPPLY VOLTAGE VS POWER ¹



TEMPERATURE VS POWER ¹



¹ Reading 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.

ORDERING EXAMPLE

CP14UG - CWT - MEDIUM

PRODUCT

COLOUR TEMP

OPTICS

PRODUCT	COLOUR TEMP	OPTICS
CP14UG	CWT Cool White (5300 – 6500K)	NOP Extra Wide Optics
	WWT Warm White (2700 – 3000K)	MEDIUM Medium Optics

ASSOCIATED PRODUCTS

PART #	DESCRIPTION
ACC-CP14UG-COVER	Optional clip-on cover