



 **COOLON**

# CP22 - SUPERBEAM

60W LED Flood Light

Equipped with the latest in LED lighting technology, coupled with state of the art optical innovations, the CP22 forms an ideal luminaire for long distance, narrow beam illumination in a low power configuration. Its robust built body enables the CP22 for use in the harshest environments enduring continuous exposure to vibration and elements.

Designed and manufactured in Australia using only the highest quality components, the CP22 High Power LED Luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Every component of the CP22 LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

#### Designed for use in:

- Rail Track Machines
- Rail Locomotives
- Rail Mobile Stock
- Navigational Beam Light
- Drag Lines
- Stacker / Reclaimers
- Trucks





**Robust built and highly resistant to vibration**

Closely based on its mining predecessors, CP22 inherits all the robustness and indestructibility required for the harshest of environments.

Luminaire's body and mounting brackets have been specifically engineered to survive the prolonged exposure to varying levels of vibration and its effects of harmonic resonance.

**Peak intensity of > 200,000Cd**

Created Specifically to comply with AS7531.4-2007 Australian Standard for Railway Rolling Stock Lighting and Rolling Stock Visibility

Headlight arrangements on track machined able to travel at speeds greater than 60km/h and weighing more than 20 tonnes gross mass shall produce a peak intensity of at least 200,000 candella.



**L70**

**LONG USEFUL OPERATING LIFE**

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**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.

**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.

**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**

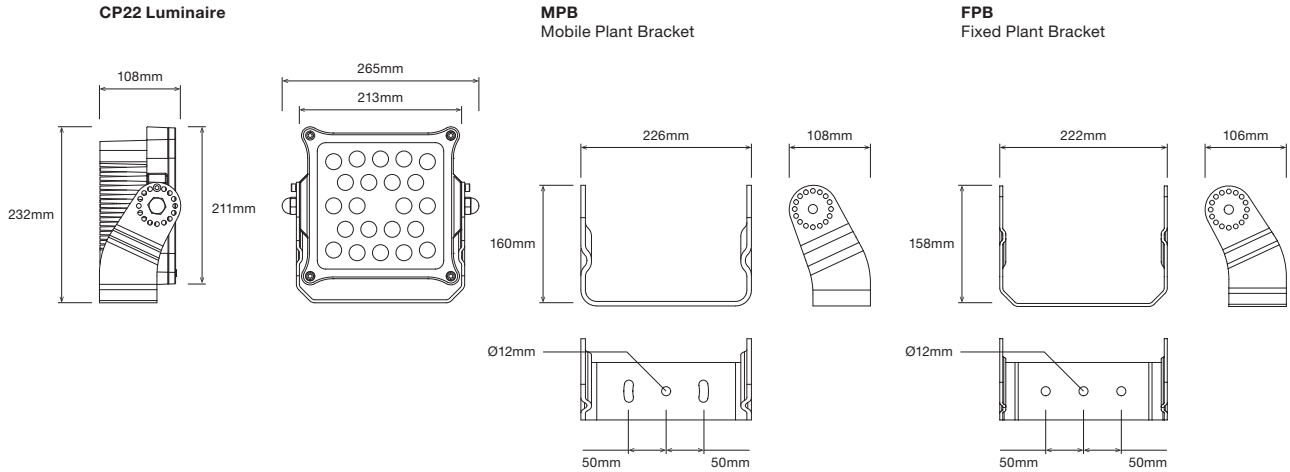
**3 YEARS FACTORY WARRANTY**

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.

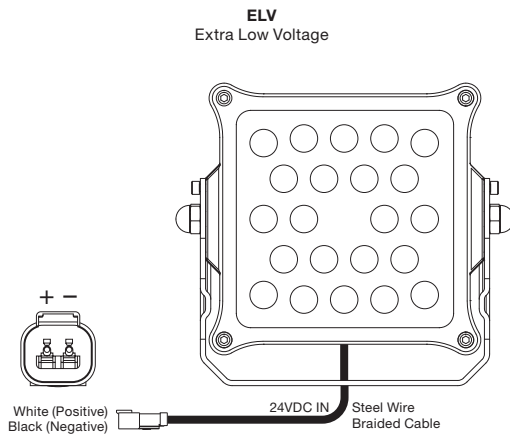
**PROUDLY MADE IN AUSTRALIA**

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



## CONFIGURATION



## TECHNICAL SPECIFICATIONS

### Make/Model

Model	CP22
Number of LEDs	22

### Optical Characteristics

Peak Cd Intensity	214200 Cd
CCT	5900 – 6500K
CRI	>70

### Electrical Characteristics (Luminaire)

Power Consumption	58.8W Typical, 65W Start
Nominal Voltage	24VDC
Voltage Range	12 – 30VDC
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	7.5mm
Cable Length	200mm

### 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 (Optics)	PMMA
Material Composition (Cover)	Toughened Glass - Standard Polycarbonate and Grilamid TR90 options are available upon request
Mounting/Bracket Type	FPB (Standard) MPB (Optional)
Angle Adjustment	11.25° Steps

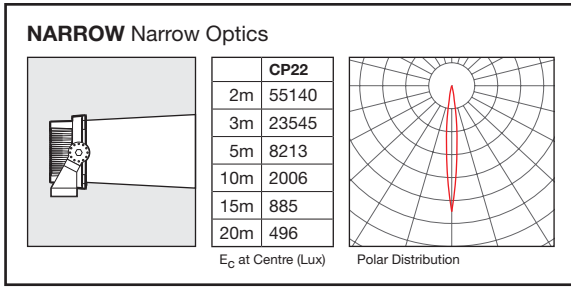
### Weight/Packaging

Luminaire Weight	4kg	
Bracket Weight	1.1kg	2kg
Packaging Dimensions	280 x 280 x 140mm	
Packaging Weight	5.5kg	6.4kg

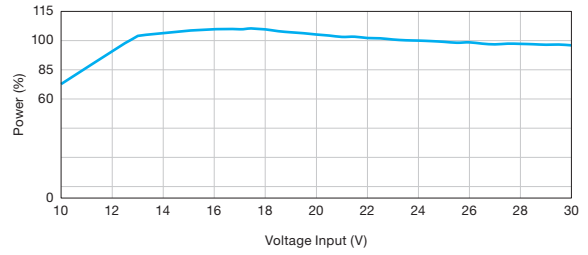
### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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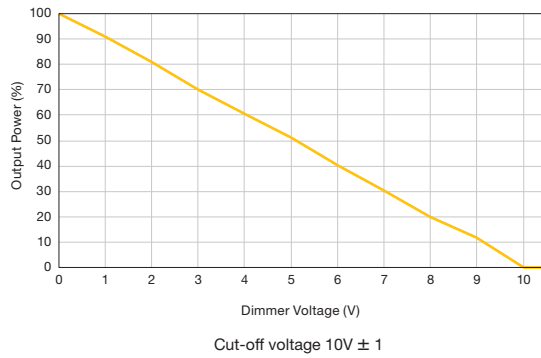
## ILLUMINANCE AT DISTANCE



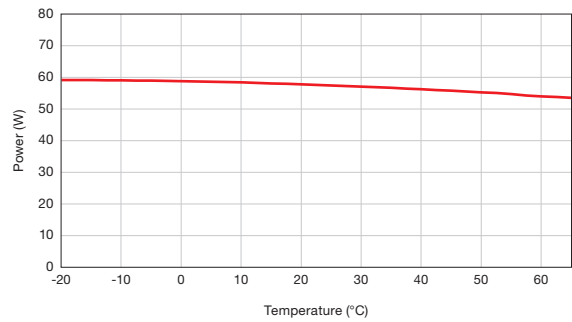
## SUPPLY VOLTAGE VS POWER



## DIMMING VOLTAGE VS POWER



## AMBIENT TEMPERATURE VS POWER



## ORDERING EXAMPLE

**CP22 - SB - NARROW - FPB<sup>1</sup>**

PRODUCT      TYPE      OPTICS      MOUNTING

PRODUCT	TYPE	OPTICS	MOUNTING
CP22	SB 12VDC – 30VDC	NARROW Narrow Optics	FPB Fixed Plant Bracket MPB Mobile Plant Bracket

<sup>1</sup> If MOUNTING is not specified, Fixed Plant Bracket will be supplied