



 **COOLON**

# CP22 - SUPERBEAM

75W LED Flood Light

Super bright, super narrow train light designed to project 100's of meters

The CP22 - Superbeam forms an ideal luminaire for long distance, narrow beam illumination in a low power configuration. Its robust build ensures long life even with continuous exposure to vibration and elements.

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
- Trucks

 **DESIGNED &  
MANUFACTURED  
IN AUSTRALIA**



**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 > 300,000Cd**

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.



**LONG USEFUL OPERATING LIFE**

At Coolon we believe the lifetime of a luminaire is so much more than just the LED's. Coolon product lifetime takes the entire luminaire into consideration and each product is backed by a comprehensive warranty – that's the Coolon confidence.



**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.



**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 FACTORY WARRANTY**

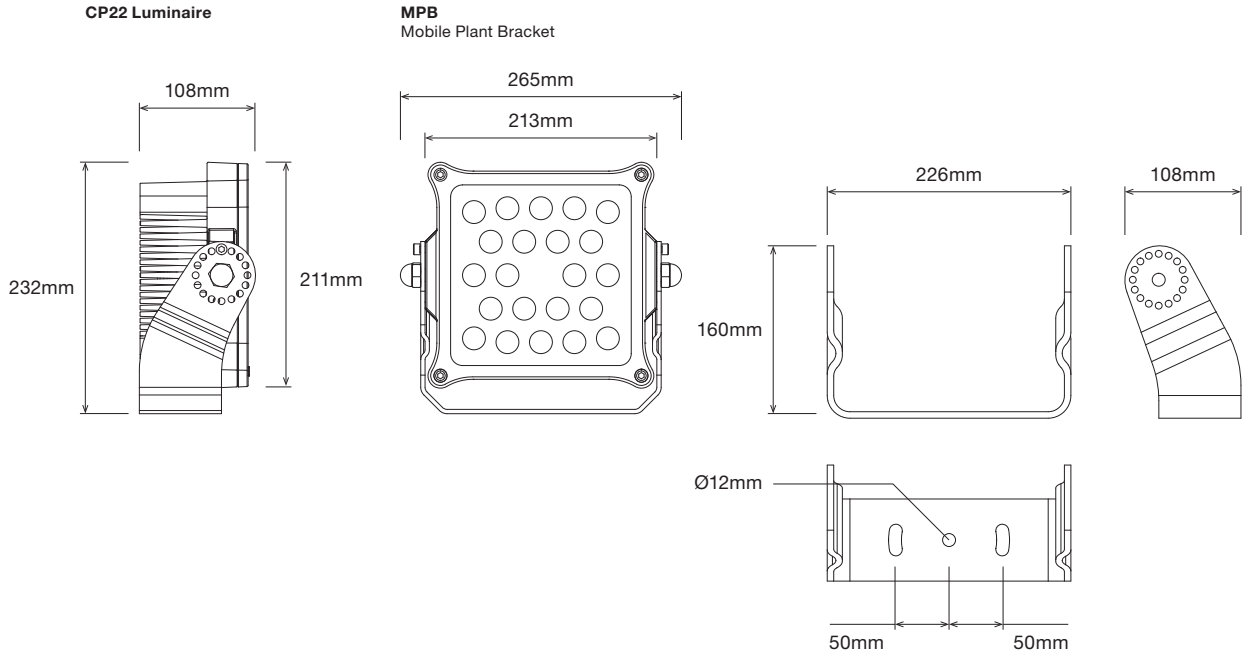
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



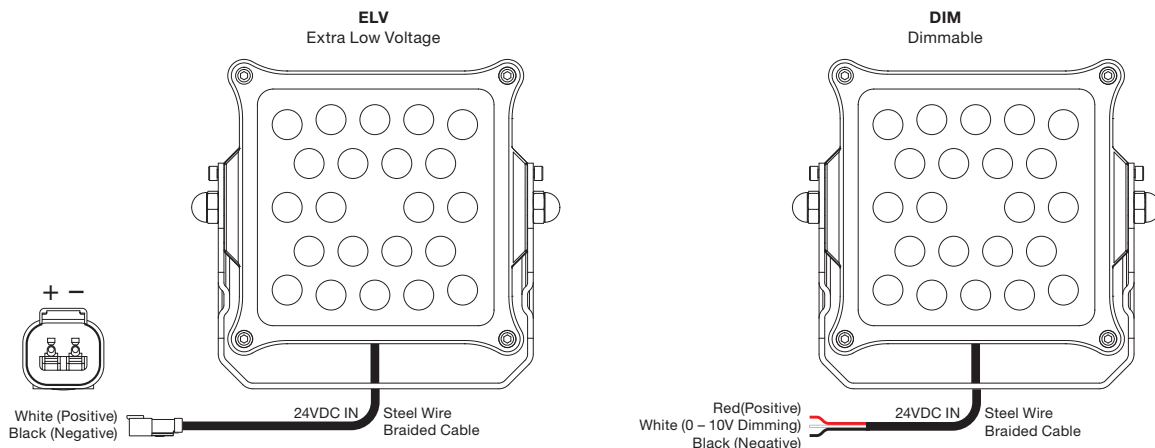
**PROUDLY MADE IN AUSTRALIA**

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

<b>Product</b>	CP22-Superbeam LED Flood Light
<b>Model</b>	CP22
<b>Optical Characteristics</b>	
Peak Cd Intensity	305,000 Cd
CCT	NWT
CRI	>70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	75W Typical, 85W Startup
Nominal Voltage	24VDC
Voltage Range	18 – 30VDC
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	7.5mm
Cable Length	200mm

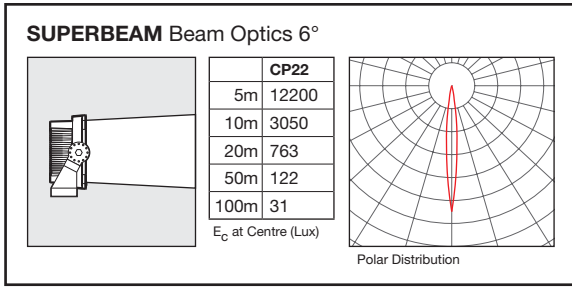
<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	LM6 Aluminium Alloy (<0.1% copper content)
Material Composition (Optics)	PMMA
Material Composition (Cover)	Toughened Glass Polyester powder coated
<b>Weight/Packaging</b>	
Luminaire Weight	4kg
Bracket Weight	2kg
Packaging Dimensions	280 x 280 x 140mm
Packaging Weight	6.4kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

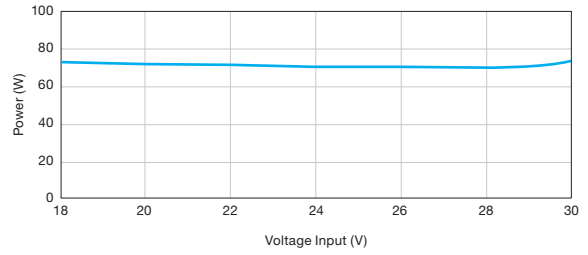
<sup>1</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior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



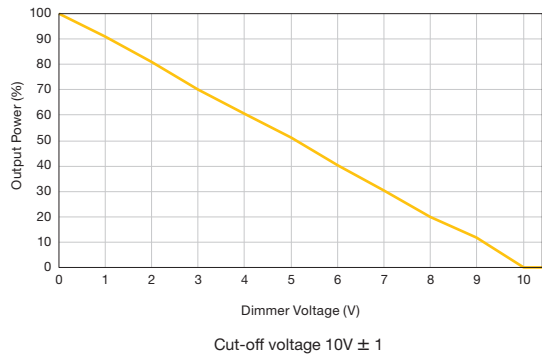
### ILLUMINANCE AT DISTANCE



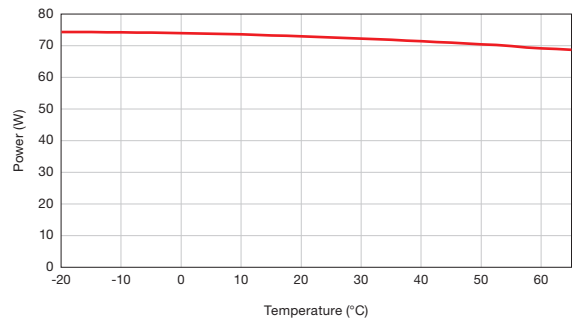
### SUPPLY VOLTAGE VS POWER



### DIMMING VOLTAGE VS POWER



### AMBIENT TEMPERATURE VS POWER



### ORDERING EXAMPLE

**CP22 - NWT - SB - ELV**

PRODUCT    COLOUR TEMPERATURE    OPTIC    CONFIGURATION

PRODUCT	COLOUR TEMPERATURE	OPTIC	CONFIGURATION
CP22	NWT Neutral White	SB 6 degree beam angle	ELV Extra Low Voltage DIM 3 Wires, 0 - 10V Dimming