



 **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

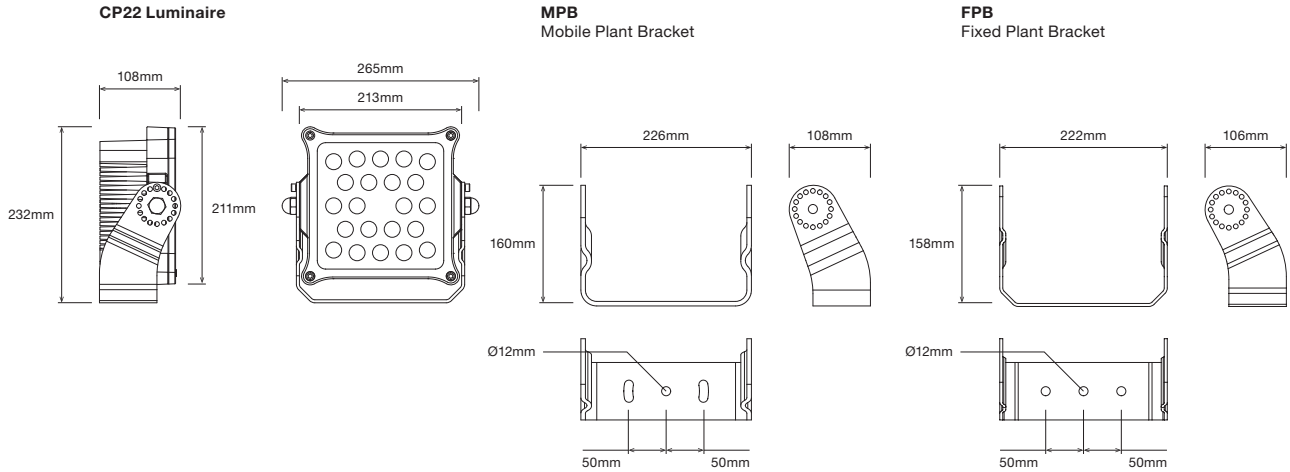
3 YEARS FACTORY WARRANTY

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.

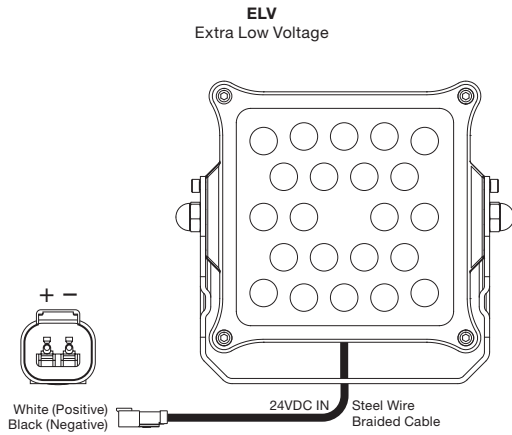
PROUDLY MADE IN AUSTRALIA

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 |

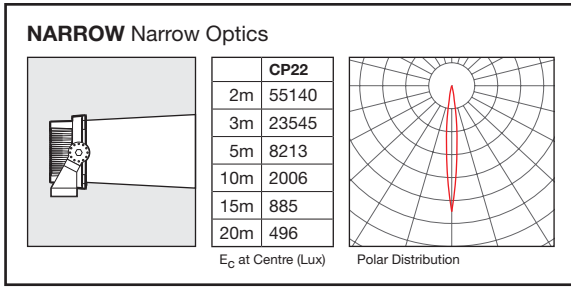
Weight/Packaging

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

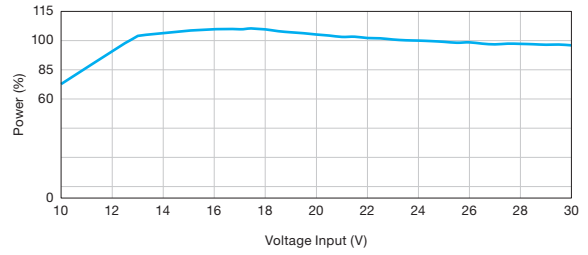
Warranty

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

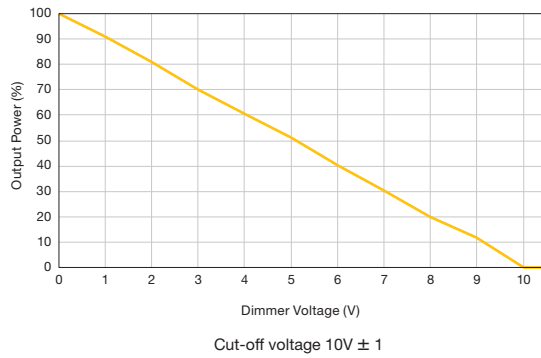
ILLUMINANCE AT DISTANCE



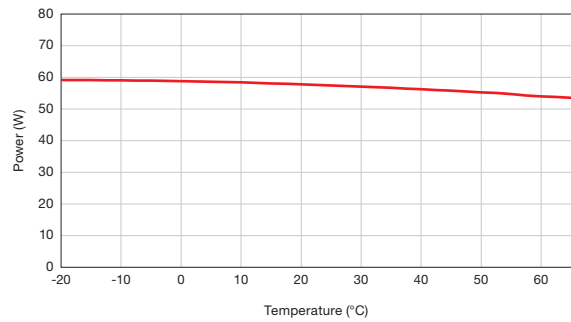
SUPPLY VOLTAGE VS POWER



DIMMING VOLTAGE VS POWER



AMBIENT TEMPERATURE VS POWER



ORDERING EXAMPLE

CP22 - SB - NARROW - FPB¹

PRODUCT TYPE OPTICS MOUNTING

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

¹ If MOUNTING is not specified, Fixed Plant Bracket will be supplied