

COOLON

CP22 - SUPERBEAM

75W LED Flood Light

Advanced long-distance illumination: Super bright, super narrow train light designed to project over 100m.

The CP22 - Superbeam is an exceptionally bright, narrow train light designed to project up to 100 meters. This luminaire is perfect for long-distance, narrow beam illumination with low power consumption. Its robust construction ensures durability, even under continuous exposure to vibration and harsh elements.

Each component of the CP22 LED luminaire is meticulously engineered to deliver reliable performance, showcasing the numerous advantages of 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

Peak intensity of > 375,000Cd

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 375,000 candella.





Robust built and highly resistant to vibration

Closely based on it's 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 it's effects of harmonic resonance.

LONG USEFUL OPERATING LIFE

L70

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

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

III

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

3 YEARS

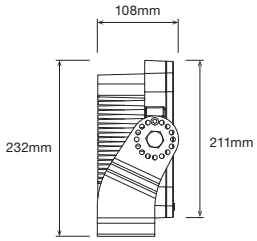
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

PROUDLY MADE IN AUSTRALIA

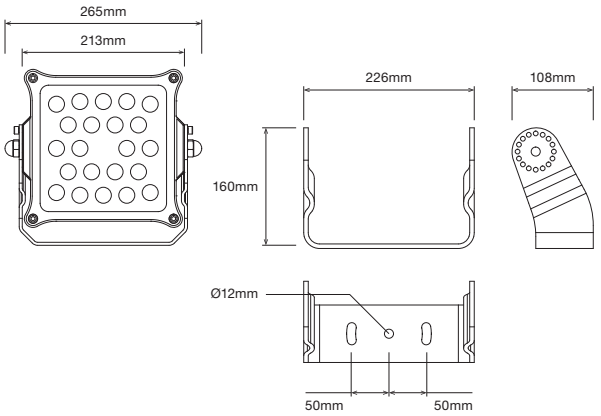
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

DIMENSIONS

CP22 Luminaire



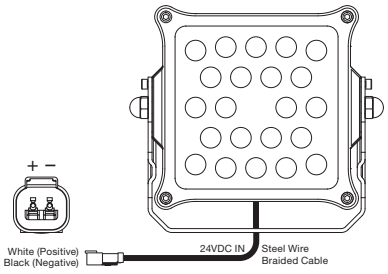
MPB
Mobile Plant Bracket



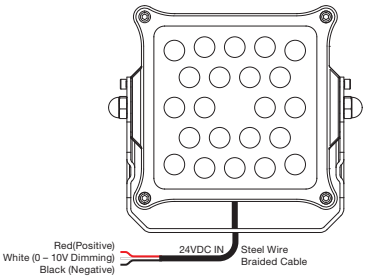
CONFIGURATION

Luminaire supplied with DT04-2P, the DT06-2S should be used as a mating connector

ELV
Extra Low Voltage



DIM
Dimmable



TECHNICAL SPECIFICATIONS

Product	CP22-Superbeam
Model	CP22-SB

Optical Characteristics	
Peak Cd Intensity	375,580 Cd
CCT	NWT / CWT
CRI	>70

Electrical Characteristics (Luminaire)	
Power Consumption	75W Typical, 85W Startup
Nominal Voltage	24VDC
Voltage Range	18 – 30VDC
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant with Deutsch DT04-2P Connector
Cable Diameter	7.5mm
Cable Length	200mm

Environmental	
IP Rating	IP66
Impact Rating	IK08
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

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

Compliance (Safety)	
AS/NZS 60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires

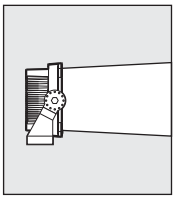
Compliance (EMC)	
AN/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

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

[1] Optical and electrical characteristics are measured using Neutral White LEDs (NWT).
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.

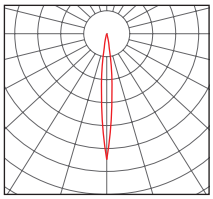
ILLUMINANCE AT DISTANCE

SPOT 6° Beam Angle



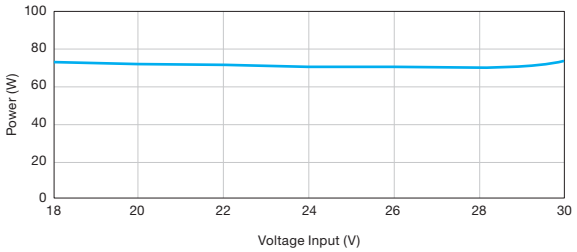
	CP22
20m	939
40m	235
60m	104
80m	59
100m	38

E_c at Centre (Lux)

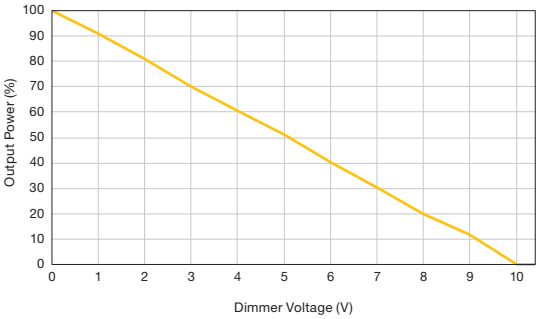


Polar Distribution

SUPPLY VOLTAGE VS POWER

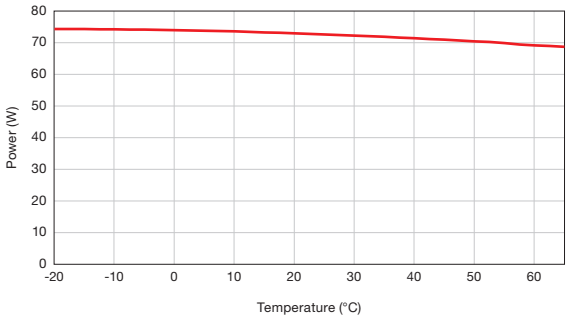


DIMMING VOLTAGE VS POWER



Cut-off voltage 10V ± 1

AMBIENT TEMPERATURE VS POWER



ORDERING EXAMPLE

CP22 - SB - NWT - SPOT - MPB - ELV

PRODUCT | TYPE | COLOUR TEMP | OPTIC | MOUNTING | CONFIGURATION

PRODUCT	TYPE		COLOUR TEMPERATURE		OPTIC		MOUNTING		CONFIGURATION	
CP22	SB	Superbeam	NWT	Neutral White	SPOT	6° Beam Angle	MPB	Mobile Plant Bracket	ELV	Extra Low Voltage
			CWT	Cool White					DIM	3 Wires, 0 – 10V Dimming