



 **COOLON**

# CP24

**75W LED Flood Light**

The CP24 is equipped with the most powerful LEDs and provides a balance of power and size. Its robust design enables the CP24 for use in the harshest environments.

Designed and manufactured in Australia using only the highest quality components, the CP24 High Power LED Luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Able to work side by side with people in the harshest of environments and is ideally suited for most situations where bulb maintenance is difficult or impossible.

Every component of the CP24 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.

CP24 LED luminaire is rated IP66 and is suitable for both indoor and outdoor use.

#### Designed for use in:

- Area Lighting
- Bulldozers
- Car Parks
- Drag Lines
- Excavators
- Load In / Out
- Processing Plants
- ROM Pads
- Stacker / Reclaimers
- Trucks
- Wash Pads
- Workshops





## Raw power for the harshest environments

The CP24 is a 75W LED Flood light designed for the harshest environments and provides unrivaled reliability and performance, critical for demanding applications.

### Built to last

Unlike conventional LED floodlights, the CP24 was designed to withstand constant abuse.

- Resistant to Vibration
- Impact and Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



#### 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.



#### 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.



#### 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.

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.

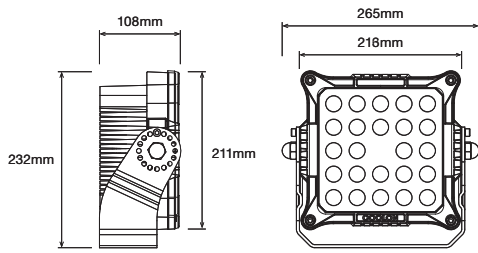


#### PROUDLY MADE IN AUSTRALIA

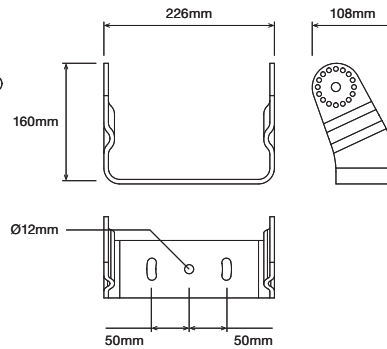
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

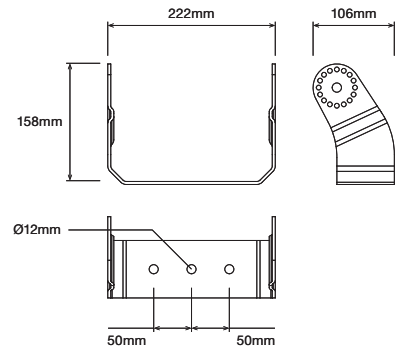
### CP24 Luminaire



### MPB Mobile Plant Bracket

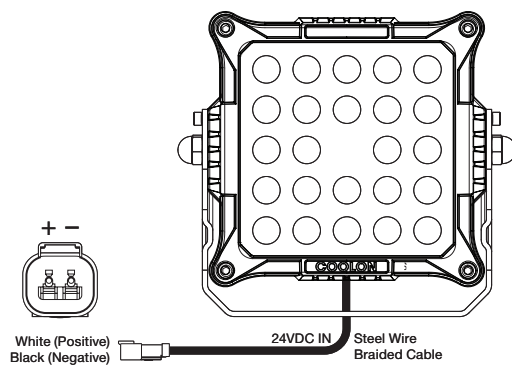


### FPB Fixed Plant Bracket



## CONFIGURATION

### ELV Extra Low Voltage



## TECHNICAL SPECIFICATIONS

<b>Product</b>	CP24 LED Flood Light
Model	CP24
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	7,032 – 8,131 lm
CCT	CWT
CRI	>70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	76.5W Typical, 78.2W Start
Nominal Voltage	24VDC
Voltage Range	12 – 34VDC
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 (Polycarbonate or Grilamid)	
Salt Spray Tested	Yes	
Operating Temp. Range	-30 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	FPB	MPB
Luminaire Weight	4kg	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
----------	--

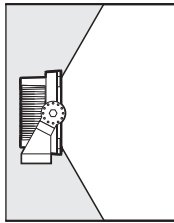
<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

<sup>2</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

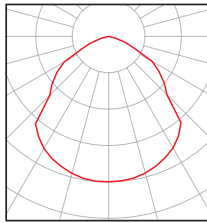
### NOP Extra Wide Optics

\*Generally used for illumination below 3m



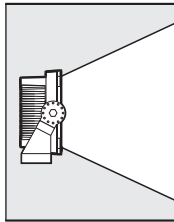
	CP24
2m	714
4m	179
6m	79
8m	45
10m	29
20m	7
30m	3

E<sub>c</sub> at Centre (Lux)



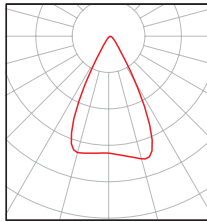
Polar Distribution

### MEDIUM Beam Optics 50°



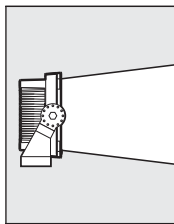
	CP24
2m	2,208
4m	552
6m	245
8m	138
10m	88
20m	22
30m	10

E<sub>c</sub> at Centre (Lux)



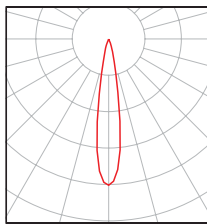
Polar Distribution

### NARROW Beam Optics 15°



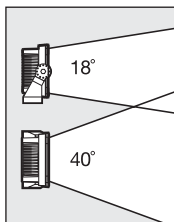
	CP24
2m	14,672
4m	3,668
6m	1,630
8m	917
10m	587
20m	147
30m	65

E<sub>c</sub> at Centre (Lux)



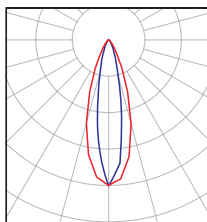
Polar Distribution

### OVAL Beam Optics 40° x 18°



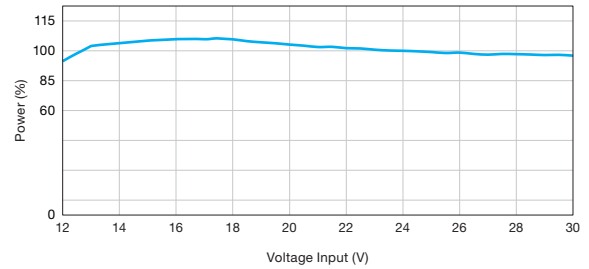
	CP24
2m	6,820
4m	1,705
6m	758
8m	426
10m	273
20m	68
30m	30

E<sub>c</sub> at Centre (Lux)

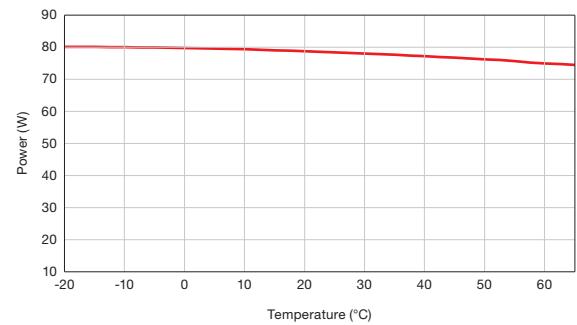


Polar Distribution

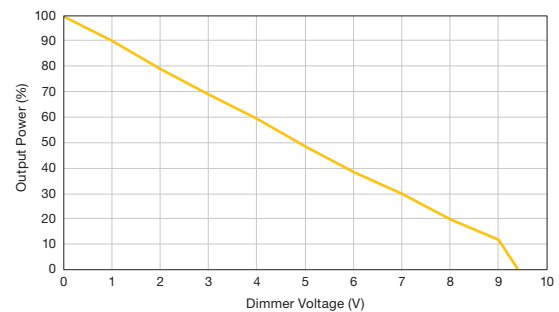
## SUPPLY VOLTAGE VS POWER



## AMBIENT TEMPERATURE VS POWER



## DIMMING VOLTAGE VS POWER



## ORDERING EXAMPLE

### CP24 - MEDIUM - FPB<sup>1</sup> - ELV

PRODUCT

OPTICS

MOUNTING

SUPPLY OPTION

PRODUCT	OPTICS	MOUNTING	SUPPLY OPTION
CP24	NOP Extra Wide Optics	FPB Fixed Plant Bracket	ELV Extra Low Voltage
	MEDIUM Medium Optics	MPB Mobile Plant Bracket	
	NARROW Narrow Optics		
	OVAL Oval Optics		

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