



 **COOLON**

# CP24

85W LED Flood Light

A mid-sized powerful flood light designed for mobile plant

The CP24 LED Light offers the most robust and heavy-duty lighting solution for tough mining machinery. It delivers high power light in the most demanding environments.

**Designed for use in:**

- Bulldozers
- Drag Lines
- Excavators
- Trucks
- Processing Plants
- ROM Pads
- Stacker / Reclaimers
- Low voltage mobile towers

 **DESIGNED &  
MANUFACTURED  
IN AUSTRALIA**



## Raw power for the harshest environments

The CP24 is a 85W 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.



### 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.



### 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.



### 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.



### 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.



### 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.



### 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.

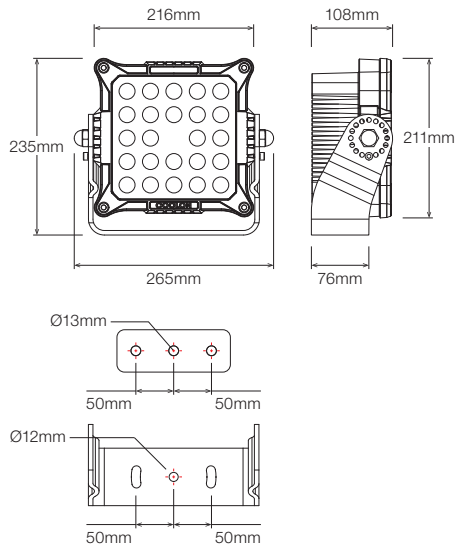


### PROUDLY MADE IN AUSTRALIA

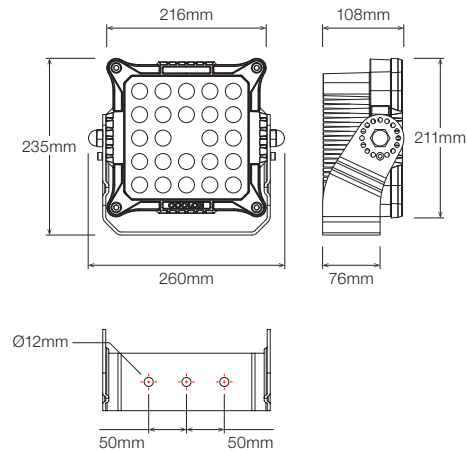
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

CP24 Luminaire with Mobile Plant Bracket

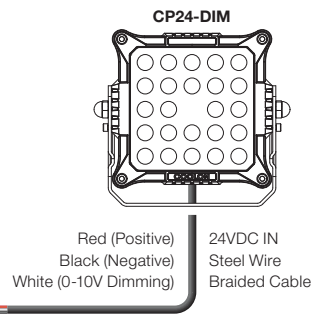
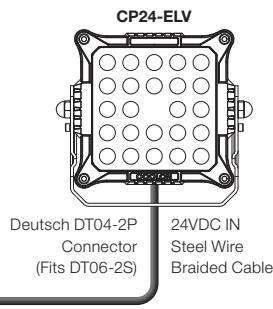


CP24 Luminaire with Fixed Plant Bracket



## CONFIGURATION

**ELV Extra Low Voltage**  
Luminaire supplied with DT04-2P, the DT06-2S should be used as a mating connector



## TECHNICAL SPECIFICATIONS

<b>Product</b>	CP24 LED Flood Light
<b>Model</b>	CP24
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	7,456 – 11,410 lm
Peak Cd Intensity	243,808 Cd
CCT	CWT
CRI	>70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	85W
Nominal Voltage	24VDC
Voltage Range	21 – 34VDC
Cable Type (ELV)	UL2517, 16 AWG x 2C Braid PVC, UV Resistant with Deutsch DT04-2P Connector
Cable Type (DIM)	UL2517, 14 AWG x 2C + 18 AWG x 1C Braid PVC, UV Resistant
Cable Diameter	7.5mm
Cable Length	200mm

<b>Environmental</b>	
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)	PC
Material Composition (Cover)	Tempered Glass
Mounting Bracket Type	MPB (Standard)      FPB
Angle Adjustment	11.25° Steps
<b>Weight/Packaging</b>	
Luminaire Weight	4kg      4kg
Bracket Weight	2kg      1.1kg
Packaging Dimensions	280 x 280 x 140mm
Packaging Weight	6.4kg      5.5kg

### 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
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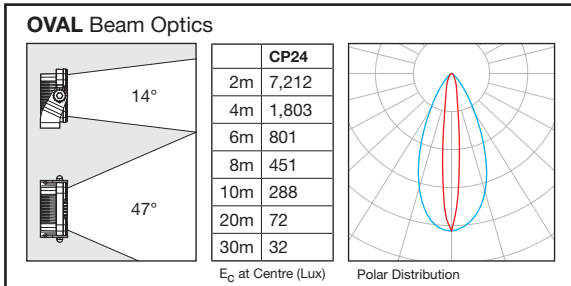
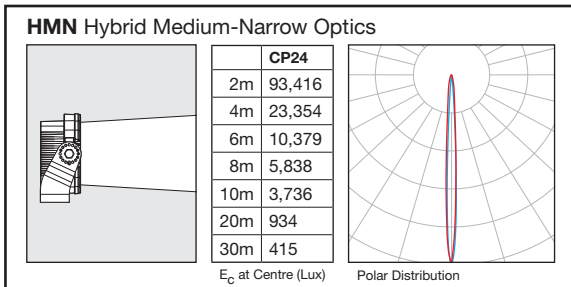
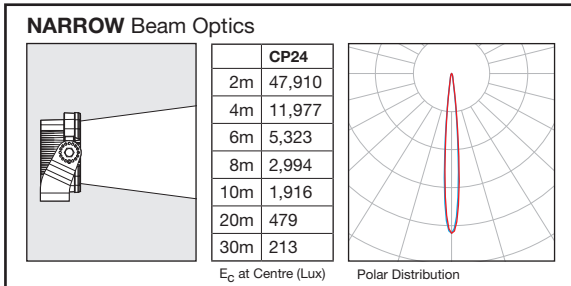
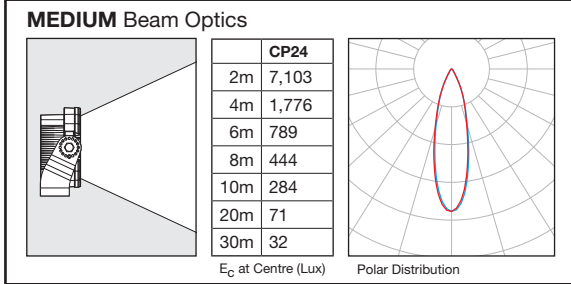
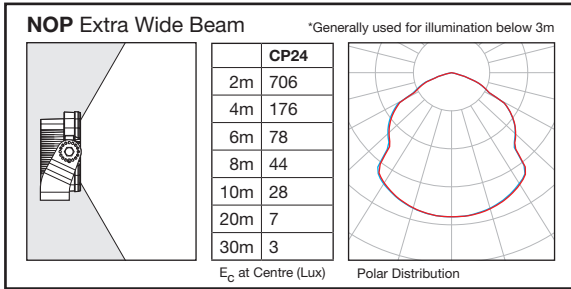
### Warranty

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



## ORDERING EXAMPLE

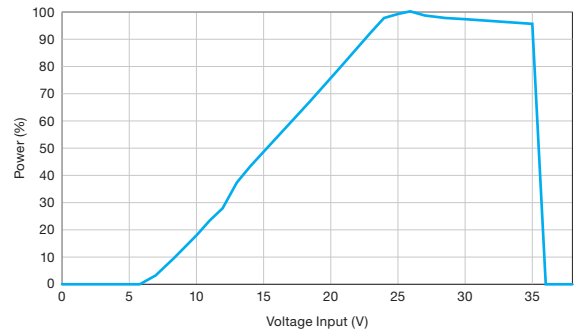
### CP24 - MEDIUM - MPB<sup>1</sup> - ELV

PRODUCT                      OPTICS                      MOUNTING                      SUPPLY OPTION

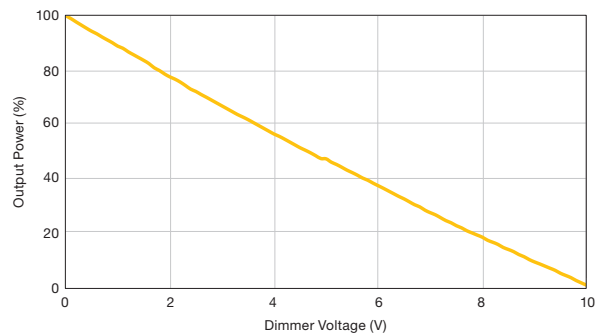
PRODUCT	OPTICS	MOUNTING	SUPPLY OPTION
CP24	NOP      Extra Wide Beam Optics	MPB      Mobile Plant Bracket	ELV      Extra Low Voltage
	MEDIUM      Medium Beam Optics	FPB      Fixed Plant Bracket	DIM      3 Wires, 0 – 10V Dimming
	NARROW      Narrow Beam Optics		
	HMN      Hybrid Medium-Narrow Optics		
	OVAL      Oval Beam Optics		

<sup>1</sup> If MOUNTING is not specified, Mobile Plant Bracket (MPB) will be supplied.

## SUPPLY VOLTAGE VS POWER



## DIMMING VOLTAGE VS POWER<sup>\*</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.