



 **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
- Draglines
- Excavators
- Trucks
- Processing Plants
- ROM Pads
- Stacker / Reclaimers
- Low voltage mobile towers





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.



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.

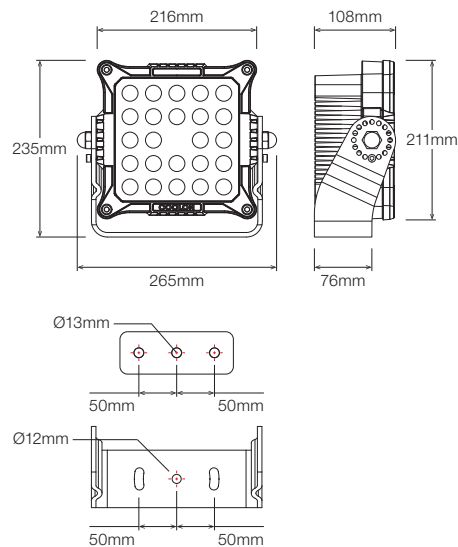


PROUDLY MADE IN AUSTRALIA

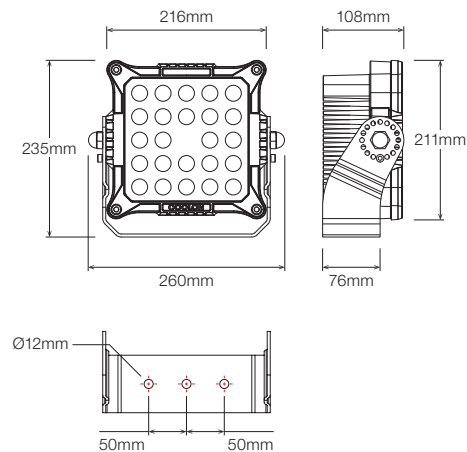
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

DIMENSIONS

CP24 Luminaire with Mobile Plant Bracket

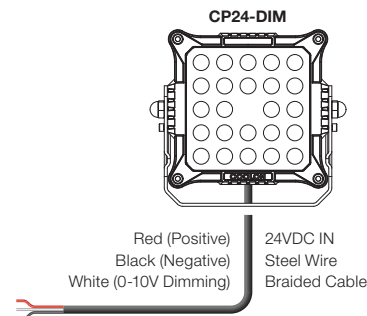
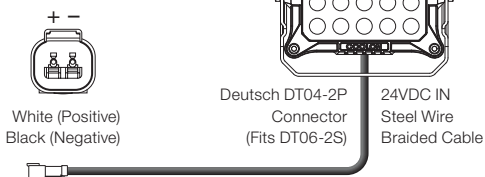


CP24 Luminaire with Fixed Plant Bracket



CONFIGURATION

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



TECHNICAL SPECIFICATIONS

Product	CP24 LED Flood Light
Model	CP24
Optical Characteristics	
Luminous Flux (Photometered)	7,456 – 11,410 lm
Peak Cd Intensity	243,808 Cd
CCT	CWT
CRI	>70
Electrical Characteristics (Luminaire)	
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

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)	PC
Material Composition (Cover)	Tempered Glass
Mounting Bracket Type	MPB (Standard) FPB
Angle Adjustment	11.25° Steps

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

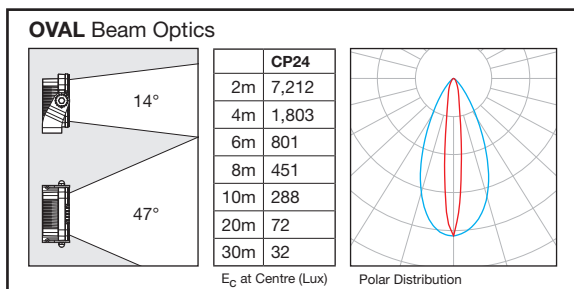
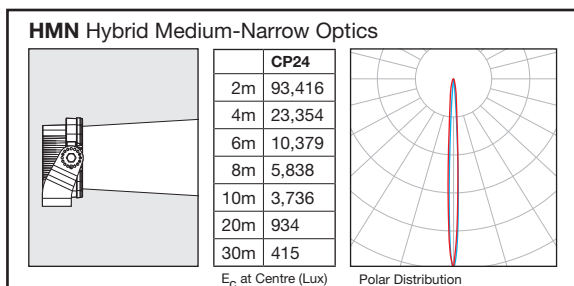
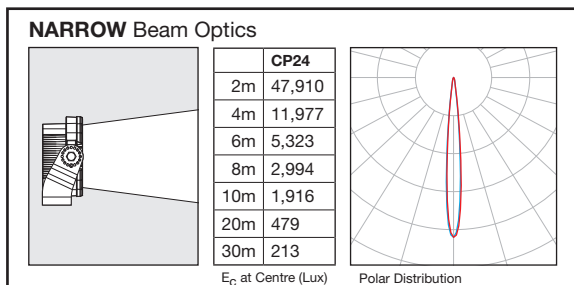
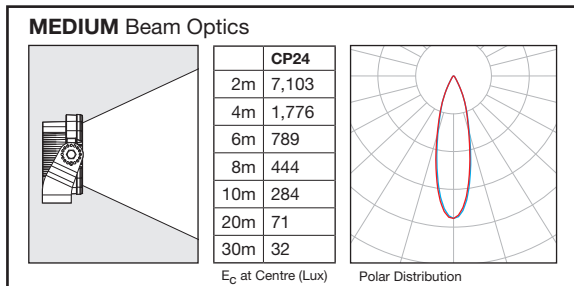
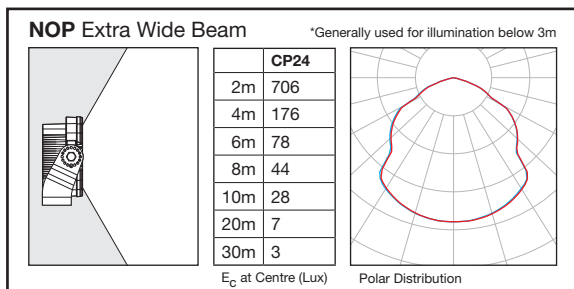
Compliance (EMC)	
AN/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

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

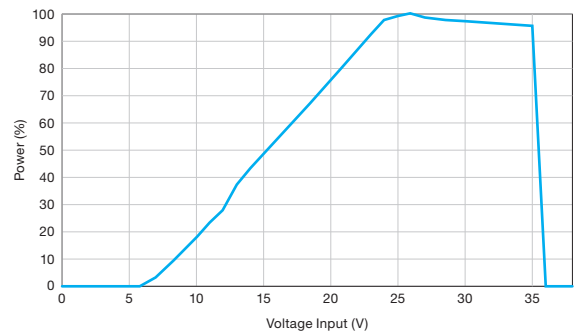
¹ Optical and electrical characteristics are measured using Cool White LEDs (CWT)

² 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.

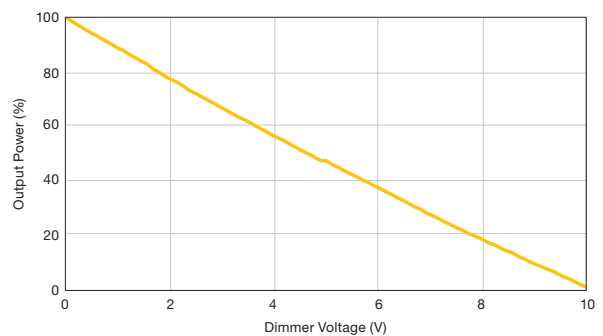
ILLUMINANCE AT DISTANCE



SUPPLY VOLTAGE VS POWER



DIMMING VOLTAGE VS POWER *



* 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.

ORDERING EXAMPLE

CP24 - MEDIUM - MPB¹ - 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				

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