



 COOLON

# CP56

180W/240W/300W LED Flood Light

The CP56 LED Light optimises the latest from Coolon's LED lighting technology to deliver the most powerful and robust flood light for heavy industrial applications.

Designed and manufactured in Australia using only the highest quality components, the CP56 LED luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Every component of the CP56 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.

CP56 LED luminaire is rated IP66 and is suitable for both indoor and outdoor use.

The wide range of available optics allows it to be well-adopted for almost any application.

#### Designed for use in:

- Crushers
- Drag Lines
- Excavators
- Flood Lighting
- Gantry Cranes
- Large Open Spaces
- Lighting Towers
- Processing Plants
- ROM Bins
- Switching Yard
- Warehouses
- Workshops





## Raw power for the harshest environments

Available in a wide range of power levels to suit your requirement, the CP56 is a high lumen output LED Flood light. The CP56 is designed for the harshest environments and provide unrivalled reliability and performance, critical for demanding applications.

## Built to last

Unlike conventional LED floodlights, the CP56 was designed to withstand constant abuse.

- Resistant to Vibration, Impact & 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.

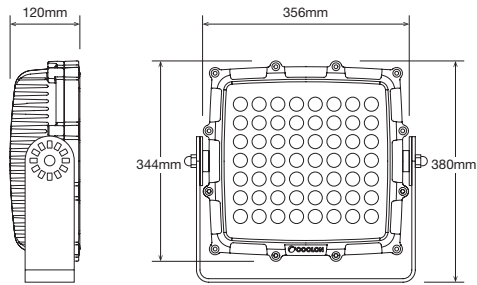


### PROUDLY MADE IN AUSTRALIA

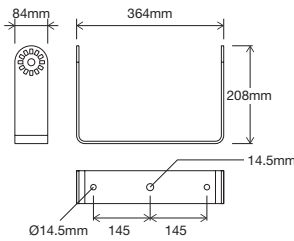
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

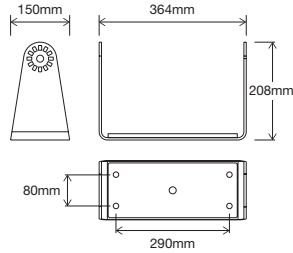
### CP56 Luminaire



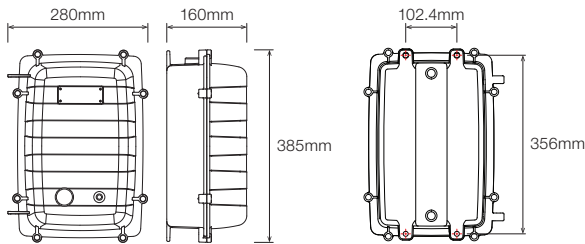
### Fixed Plant Bracket (FPB)



### Mobile Plant Bracket (MPB)



## POWER SUPPLY DIMENSIONS



## TECHNICAL SPECIFICATIONS

### Product

Model	CP56
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### Optical Characteristics

Luminous Flux (Photometered)	13740 – 22970 lm
Luminous Flux (LED Lumens)	35000 lm
CCT	5800 – 6900K
CRI	>70

### Electrical Characteristics (Luminaire)

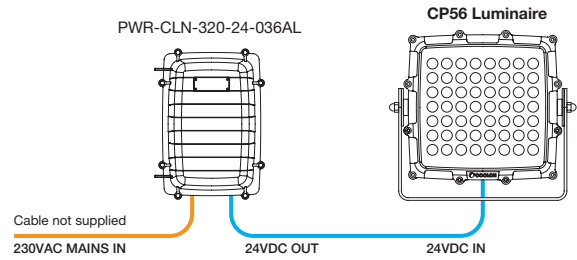
Power Consumption	180W	240W	300W
Nominal Voltage	24VDC		
Voltage Range	19 – 34V		
Cable Type	UL2517, 14# x 2C + 18# x 1C, Braid PVC UV Resistant		
Cable Diameter	7.5mm		
Cable Length	2m		

### Electrical Characteristics (Power Supply)

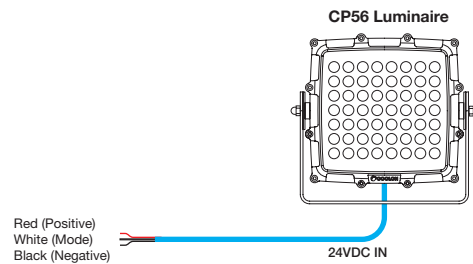
Model Part Number	PWR-CLN-320-24-036AL
Voltage Range	90 – 305VAC / 127 – 431VDC
Frequency Range	47 – 63Hz
Power Factor	≥0.95 / 230VAC @ Full Load
Leakage Current	<0.75 mA / 277VAC

## UNIT CONFIGURATION

### CP56 - WPS



### CP56 - NPS



## OPERATING MODE SELECTION



Operating Mode	Power	Join Wiring	Description
Boost	300W	Black + White	Wire in for the highest light output
Normal	240W	White Unused	Wire in for harsh environmental conditions
Reduced	180W	Red + White	Wire in for current limited applications

### Environmental

IP Rating	IP66
Impact Rating	IK09
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 (Bracket)	Stainless Steel 316 (FPB) / Bisalloy Bisplate® (MPB)
Material Composition (Cover)	Tempered Glass
Mounting/Bracket Type	FPB (Standard) / MPB (Optional)
Angle Adjustment	+/- 90° in 30° Steps

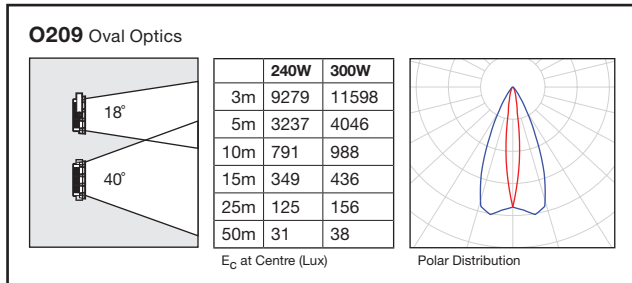
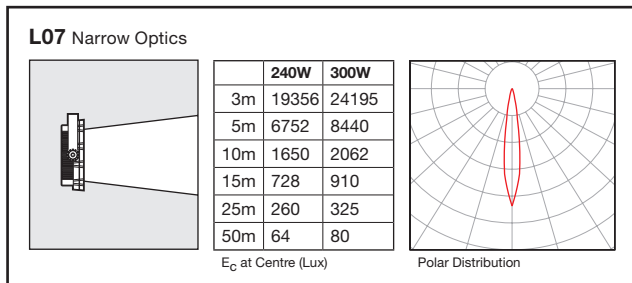
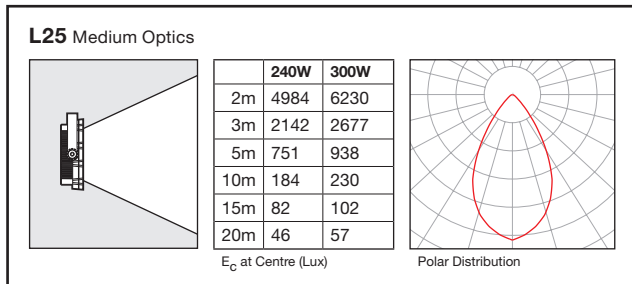
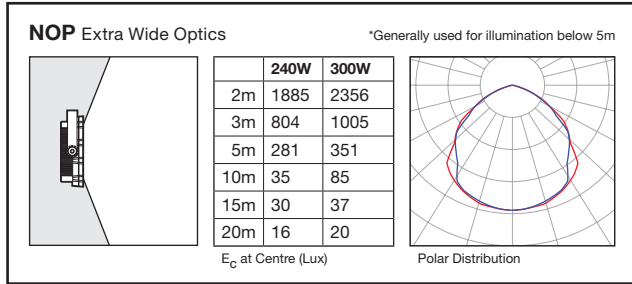
### Weight/Packaging

Luminaire Weight	13kg
Bracket Weight	3kg (FPB), 10kg (MPB + Plate), 3.1kg (SSFPB)
Packaging Dimensions (CP56)	460 x 440 x 180mm
Packaged Weight (CP56)	16kg (FPB), 23kg (MPB + Plate), 16.1kg (SSFPB)
Packaging Dimensions (PSU)	400 x 280 x 180mm
Packaged Weight (PSU)	5.2kg

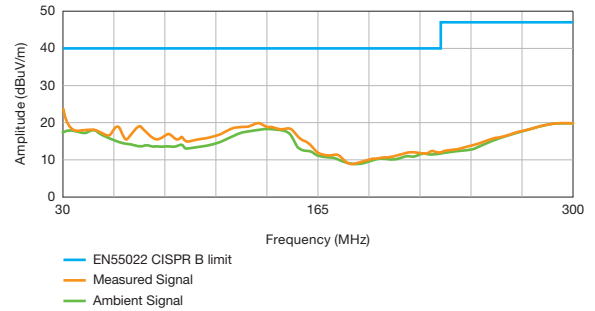
### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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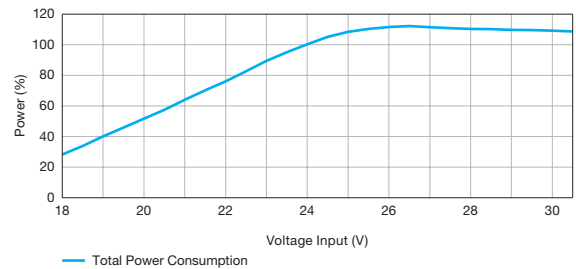
## ILLUMINANCE AT DISTANCE



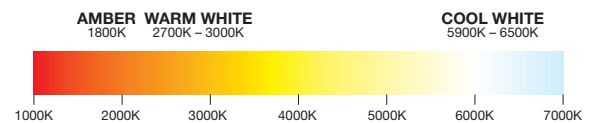
## MINIMAL RADIATED EMI



## SUPPLY VOLTAGE VS POWER



## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## ORDERING EXAMPLE

**CP56 - CWT<sup>1</sup> - L25 - FPB<sup>2</sup> - WPS<sup>3</sup>**

PRODUCT      COLOUR TEMPERATURE      OPTICS      MOUNTING      SUPPLY OPTION

PRODUCT	COLOUR TEMPERATURE	OPTICS	MOUNTING	SUPPLY OPTION
CP56	CWT      Cool White LEDs	NOP      Extra Wide Optics	FPB      Fixed Plant Bracket	WPS      With Power Supply
	WWT      Warm White LEDs	L25      Medium Optics	MPB      Mobile Plant Bracket	NPS      No Power Supply
	AMB <sup>4</sup> Amber LEDs	L07      Narrow Optics	SSFPB      Stainless Steel Fixed Plant Bracket	
		O209      Oval Optics		

<sup>1</sup> If COLOUR TEMPERATURE is not specified, Cool White LEDs (CWT) will be supplied

<sup>2</sup> If MOUNTING is not specified, Fixed Plant Bracket (FPB) will be supplied

<sup>3</sup> If SUPPLY OPTION "WPS" is specified, KIT1 will be supplied

<sup>4</sup> CP56-AMB only available as a 200W unit

## ASSOCIATED PRODUCTS

KIT	PART #	DESCRIPTION
KIT 1	CP56-***-***-ELV	CP56 Luminaire, Extra Low Voltage
	PWR-CLN-320-24-036AL	Coolon Industrial Power Supply 320W IP66, 24VDC in 00036 Aluminium Enclosure