



 COOLON

# CP12

52W/65W Compact LED Work Light

Small, robust, high output work light with multiple optical variations designed for mobile plant

The CP12 is a highly efficient, high lumen output mobile plant light that is available in multiple optical variations. It has a robust mechanical design that has been engineered to retrofit Nordic HID worklamps.

Thanks to its remarkable power efficiency, the CP12 pushes the power limits to over 60 watts, delivering an astonishing amount of light in a small and robust package. More light means greater visibility, with greater area coverage and longer distance than any other industrial work light in the category.

#### Designed for use in:

- Bulldozers
- Trucks
- Drill Rigs
- Excavators
- Graders
- Shovels

 DESIGNED &  
MANUFACTURED  
IN AUSTRALIA

# Direct Retrofit

Same size, same shape, 4 times the light. CP12 was specifically created to match the physical characteristics of most factory fitted halogen work lights.



# Built to Last

The CP12 is designed for the harshest environments and provides unrivaled reliability and performance, critical for demanding applications.

- 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.



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.



## 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.

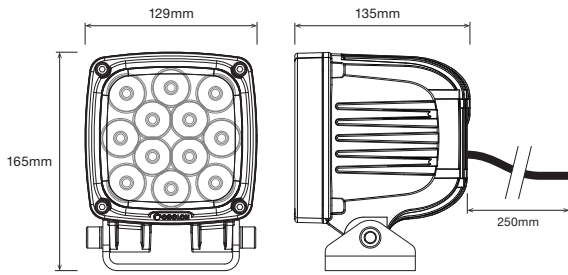


## PROUDLY MADE IN AUSTRALIA

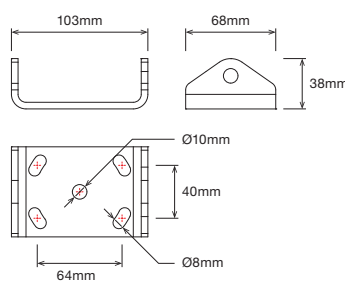
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

### CP12 Luminaire

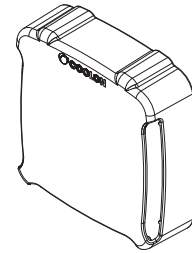


### Standard Bracket



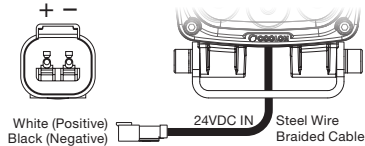
### Optional Clip-on Cover

ACC-CP12-COVER (available separately)

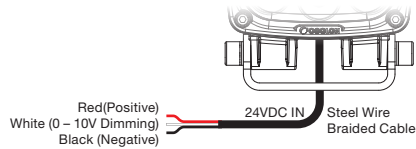


## CONFIGURATION

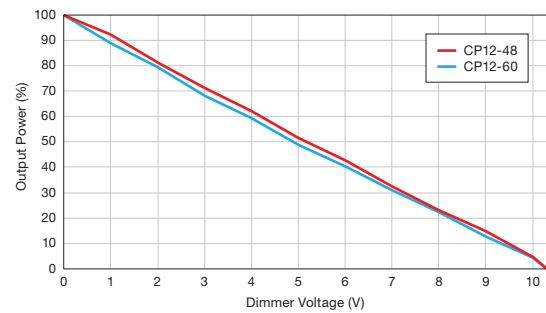
### CP12-ELV



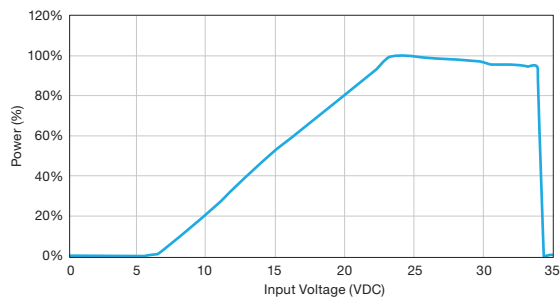
### CP12-DIM



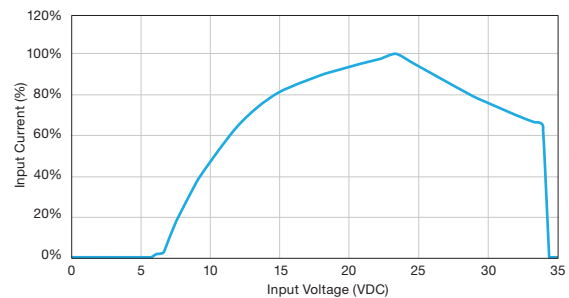
## DIMMING VOLTAGE VS POWER <sup>1</sup>



## SUPPLY VOLTAGE VS POWER <sup>1</sup>



## SUPPLY CURRENT VS VOLTAGE <sup>1</sup>



## TECHNICAL SPECIFICATIONS

<b>Product</b>	CP12 Compact LED Work Light	
<b>Model</b>	CP12-48	CP12-60
<b>Optical Characteristics</b>		
Luminous Flux (Photometered)	4,000 – 5,300 lm	4,800 – 6,600 lm
CCT	CWT	
CRI	>70	
<b>Electrical Characteristics (Luminaire)</b>		
Power Consumption	52W @ 24VDC	65W @ 24VDC
Nominal Voltage	24VDC	
Voltage Range	21 – 34VDC	
Cable Type (ELV)	UL2517, 16 AWG x 2C Braid PVC, UV Resistant	
Cable Type (DIM)	UL2517, 14 AWG x 2C + 18 AWG x 1C Braid PVC, UV Resistant	
Cable Diameter	7.5mm	
Cable Length	250mm	

<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
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 (Polyester powder coated)
Material Composition (Cover)	Tempered Glass
Material Composition (Bracket)	Stainless Steel
Material Composition (Optics)	Polycarbonate
Mounting/Bracket Type	Standard
Angle Adjustment	Free aiming range -30° to +30°
<b>Weight/Packaging</b>	
Luminaire Weight	2.1kg
Bracket Weight	0.4kg
Packaging Dimensions	140 x 175 x 160mm
Packaged Weight	2.7kg

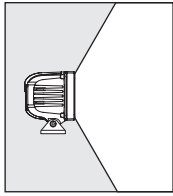
### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</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.

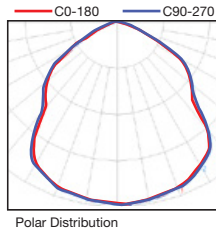
## ILLUMINANCE AT DISTANCE

### NOP Extra Wide Optics

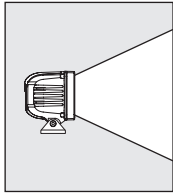


	CP12-48	CP12-60
2m	413	499
4m	103	125
6m	46	55
8m	26	31
10m	17	20

$E_c$  at Centre (Lux)

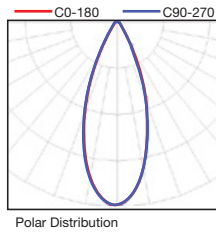


### MEDIUM Medium Optics

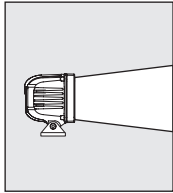


	CP12-48	CP12-60
2m	2346	2875
4m	586	719
6m	261	319
8m	147	180
10m	94	115

$E_c$  at Centre (Lux)

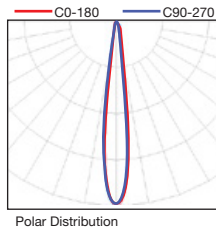


### NARROW Narrow Optics

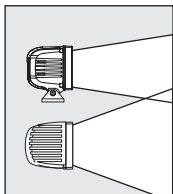


	CP12-48	CP12-60
2m	15272	19075
4m	3818	4769
6m	1697	2119
8m	955	1192
10m	611	763

$E_c$  at Centre (Lux)

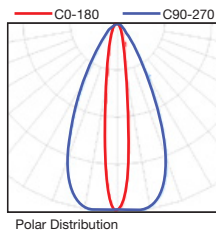


### OVAL Oval Optics



	CP12-48	CP12-60
2m	3452	4387
4m	863	1097
6m	384	487
8m	216	274
10m	138	175

$E_c$  at Centre (Lux)



## ORDERING EXAMPLE

**CP12 - 60 - NOP - ELV**

PRODUCT      TYPE      OPTICS      CONFIGURATION

PRODUCT	TYPE	OPTICS	CONFIGURATION
CP12	48    Power 52W	NOP	Extra Wide Optics    ELV    Extra Low Voltage
	60    Power 65W	MEDIUM	Medium Optics    DIM    3 Wires, 0 – 10V Dimming
		NARROW	Narrow Optics
		OVAL	Oval Optics

## ASSOCIATED PRODUCTS

PART #	DESCRIPTION
ACC-CP12-COVER	Clip-on cover