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.

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.

HIGH IP RATING - IP66

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

III

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

3 YEARS FACTORY WARRANTY

3 YEARS

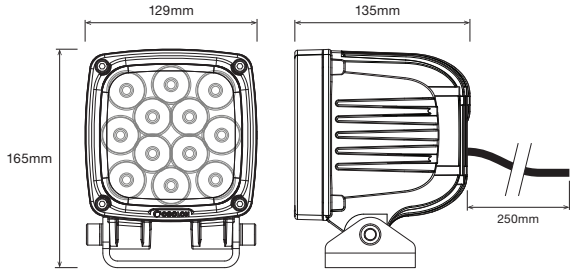
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

PROUDLY MADE IN AUSTRALIA

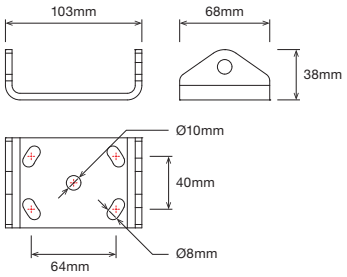
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

DIMENSIONS

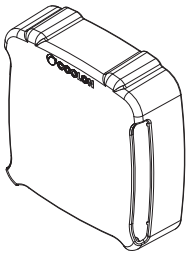
CP12 Luminaire



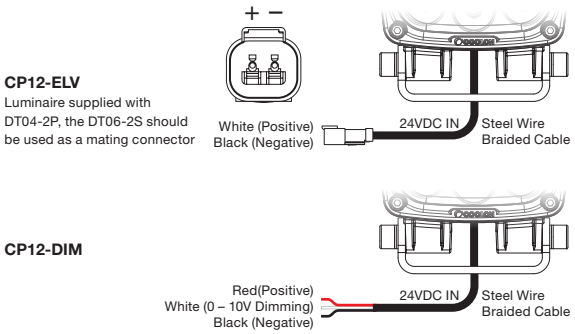
Standard Bracket



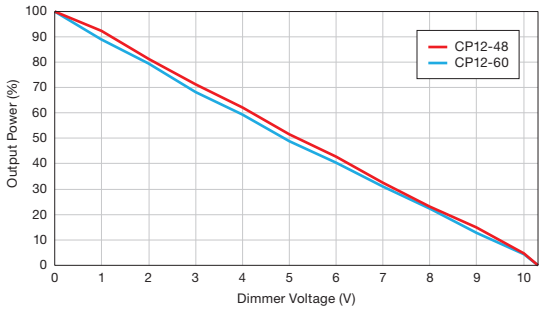
Optional Clip-on Cover
ACC-CP12-COVER (available separately)



CONFIGURATION



DIMMING VOLTAGE VS POWER [1]



TECHNICAL SPECIFICATIONS

Product	CP12 Compact LED Work Light	
Model	CP12-48	CP12-60

Optical Characteristics		
Luminous Flux (Photometered)	4,000 – 5,300 lm	4,800 – 6,600 lm
Peak Cd Intensity	574,329 Cd	
CCT	CWT	
CRI	>70	

Electrical Characteristics (Luminaire)		
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 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	250mm	

Environmental	
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°

Compliance (Safety)	
AS/NZS 60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires

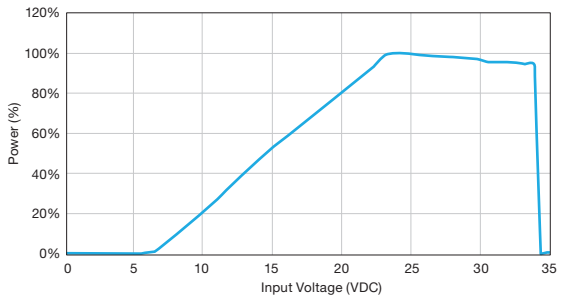
Compliance (EMC)	
AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

Weight/Packaging	
Luminaire Weight	2.1kg
Bracket Weight	0.4kg
Packaging Dimensions	140 x 175 x 160mm
Packaged Weight	2.7kg

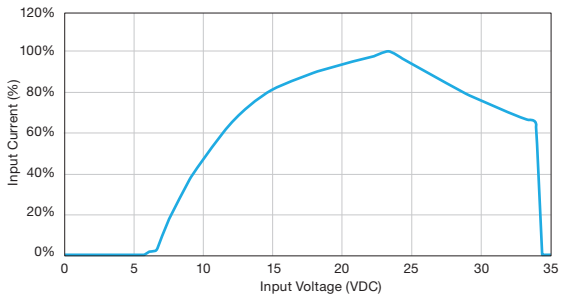
Warranty	
Warranty	3 years warranty as standard 5 years extended warranty optional

[1] 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.

SUPPLY VOLTAGE VS POWER [1]

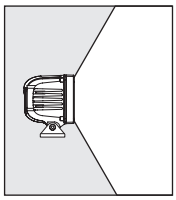


SUPPLY CURRENT VS VOLTAGE [1]



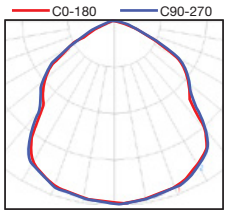
ILLUMINANCE AT DISTANCE

NOP Extra Wide Optics



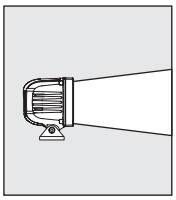
	CP12-48	CP12-60
2m	413	499
4m	103	125
6m	46	55
8m	26	31
10m	17	20

E_C at Centre (Lux)



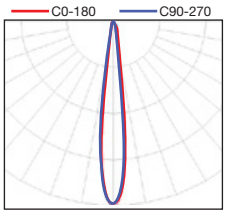
Polar Distribution

NARROW Narrow Optics



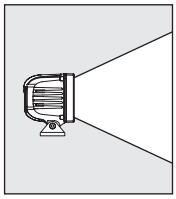
	CP12-48	CP12-60
2m	15272	19075
4m	3818	4769
6m	1697	2119
8m	955	1192
10m	611	763

E_C at Centre (Lux)



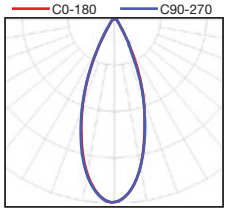
Polar Distribution

MEDIUM Medium Optics



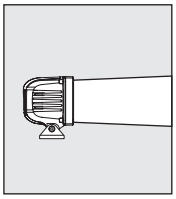
	CP12-48	CP12-60
2m	2346	2875
4m	586	719
6m	261	319
8m	147	180
10m	94	115

E_C at Centre (Lux)



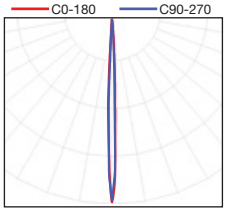
Polar Distribution

SPOT Spot Optics



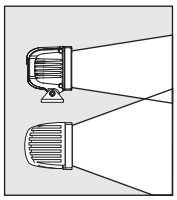
	CP12-48	CP12-60
20m	1,160	1,436
40m	290	359
60m	129	160
80m	73	90
100m	46	57

E_C at Centre (Lux)



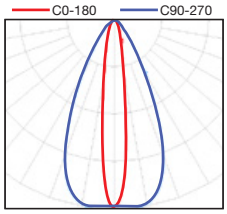
Polar Distribution

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)



Polar Distribution

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		
			SPOT	Spot Optics		
			OVAL	Oval Optics		

ASSOCIATED PRODUCTS

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