



 **COOLON**

CP12

48W / 60W Compact LED Work Light

CP12 sets a new benchmark for heavy duty compact LED work light performance.

The CP12 is a true representation of modern lighting evolution.

Just when everybody thought that the boundaries of LED lighting technology could not be pushed any further, CP12 has set the new benchmark of work-light performance.

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
- Drill Rigs
- Excavators
- Flood Lights
- Graders
- Lighting Towers
- Processing Plants
- Trucks
- Warehouses



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.

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

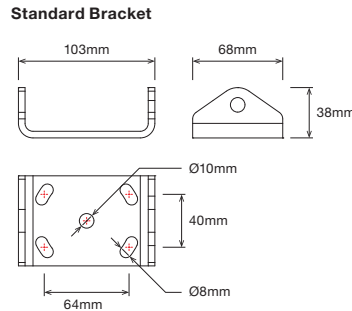
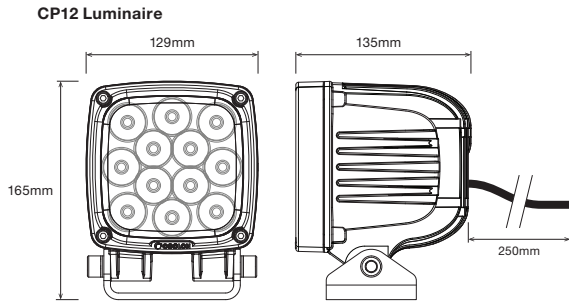
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



PROUDLY MADE IN AUSTRALIA

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.

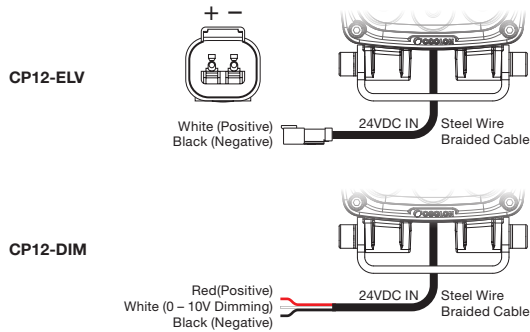
DIMENSIONS



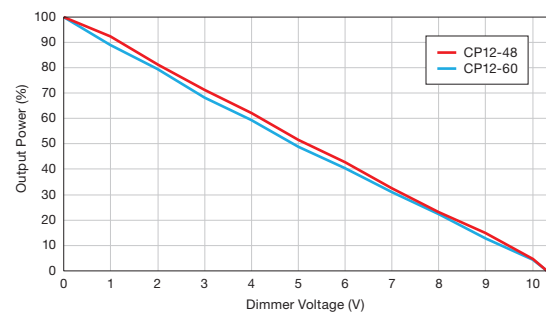
Optional Clip-on Cover
ACC-CP12-COVER (available separately)



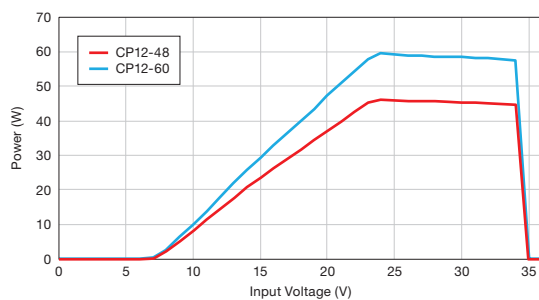
CONFIGURATION



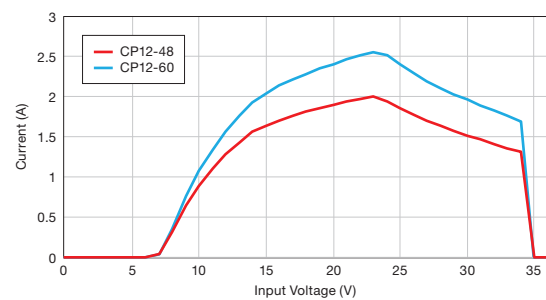
DIMMING VOLTAGE VS POWER ¹



SUPPLY VOLTAGE VS POWER ¹



SUPPLY CURRENT VS VOLTAGE ¹



¹ Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behavior may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

TECHNICAL SPECIFICATIONS

Product		
Model	CP12-48	CP12-60
Optical Characteristics		
Luminous Flux (Photometered)	3,230 – 4,330 lm	4,000 – 5,410 lm
Luminous Flux (LED Lumens)	6,127 lm	7,600 lm
CCT	CWT	
CRI	>70	
Electrical Characteristics (Luminaire)		
Power Consumption	48W @ 24VDC	60W @ 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	

Environmental	
IP Rating	IP66
Impact Rating	IK09 - Grilamid TR (CP12-48) IK07 - Borosilicate Glass (CP12-60)
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 (Cover)	Grilamid TR (CP12-48) / Borosilicate Glass (CP12-60)
Material Composition (Bracket)	Stainless Steel
Material Composition (Optics)	PC
Mounting/Bracket Type	Standard
Angle Adjustment	Free aiming range -30° to +30°

Weight/Packaging

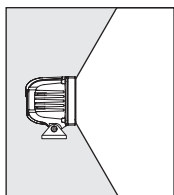
Luminaire Weight	2.1kg
Bracket Weight	0.4kg
Packaging Dimensions (CP12)	140 x 175 x 160mm
Packaged Weight (CP12)	2.7kg

Warranty

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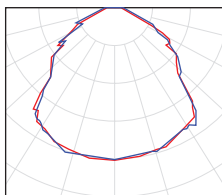
ILLUMINANCE AT DISTANCE

NOP Extra Wide Optics



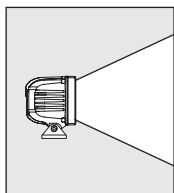
	CP12-48	CP12-60
2m	324	400
4m	81	100
6m	36	44
8m	20	25
10m	13	16

E_c at Centre (Lux)



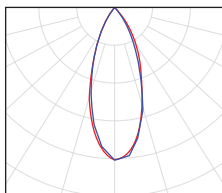
Polar Distribution

MEDIUM Medium Optics



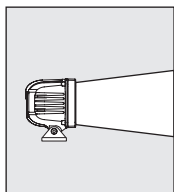
	CP12-48	CP12-60
2m	1655	2162
4m	414	540
6m	184	240
8m	103	135
10m	66	86

E_c at Centre (Lux)



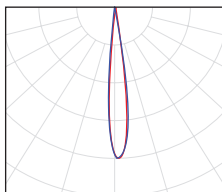
Polar Distribution

NARROW Narrow Optics



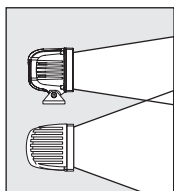
	CP12-48	CP12-60
2m	13601	17398
4m	3400	4349
6m	1511	1933
8m	850	1087
10m	544	696

E_c at Centre (Lux)



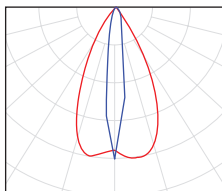
Polar Distribution

OVAL Oval Optics



	CP12-48	CP12-60
2m	2835	3593
4m	709	898
6m	315	399
8m	177	225
10m	113	144

E_c at Centre (Lux)



Polar Distribution

ORDERING EXAMPLE

CP12 - 60 - NOP - ELV

PRODUCT TYPE OPTICS CONFIGURATION

PRODUCT	TYPE	OPTICS	CONFIGURATION
CP12	48 Power 48W	NOP Extra Wide Optics	ELV Extra Low Voltage
	60 Power 60W	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