


COOLON

DC2-KIT2

20W LED Mining Lead Light

Set of portable work light LED luminaires, purpose built for operation in harsh environments.

Suitable for use as a reliable replacement of commonly used low voltage fluorescent lead lights.

An Extra Low Voltage (ELV) operation combined with the robust and compact design make DC2 LED lights ideal for a variety of applications including illumination of long underground mining tunnels and fast installation of temporary work lighting systems.

A cutting edge, extra low voltage safe, robust and quick connecting.

Designed for use in:

- Harsh Underground General Lighting



ELV SAFE

EXTRA LOW VOLTAGE OPERATION

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

Operates on 24VDC





Reliability, where it counts

DC2 LED is a robust alternative to conventionally found fluorescent lead lights. High IP rating ensures that the fitting can survive in the harshest of the environments. Powered by Low Voltage DC, DC2 LED is easily adoptable for many underground applications.



Robust and virtually indestructible

The outer materials are corrosion resistant with a low surface temperature offering easy handling and maximum rigidity for all demanding applications.



Quick connect, flexible lighting system

DC2 comes pre-wired out of the box and is ready for installation right away. Simply attach the light to the surface and plug in all the connectors together. No tools, no isolation and no qualified labour required. With DC2, the lighting system will be up and running in no time.



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 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

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.



LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.



LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



3 YEARS FACTORY WARRANTY

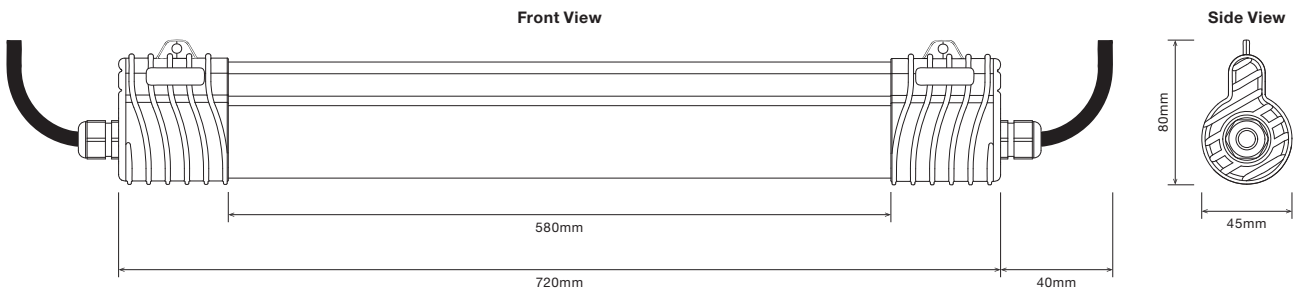
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



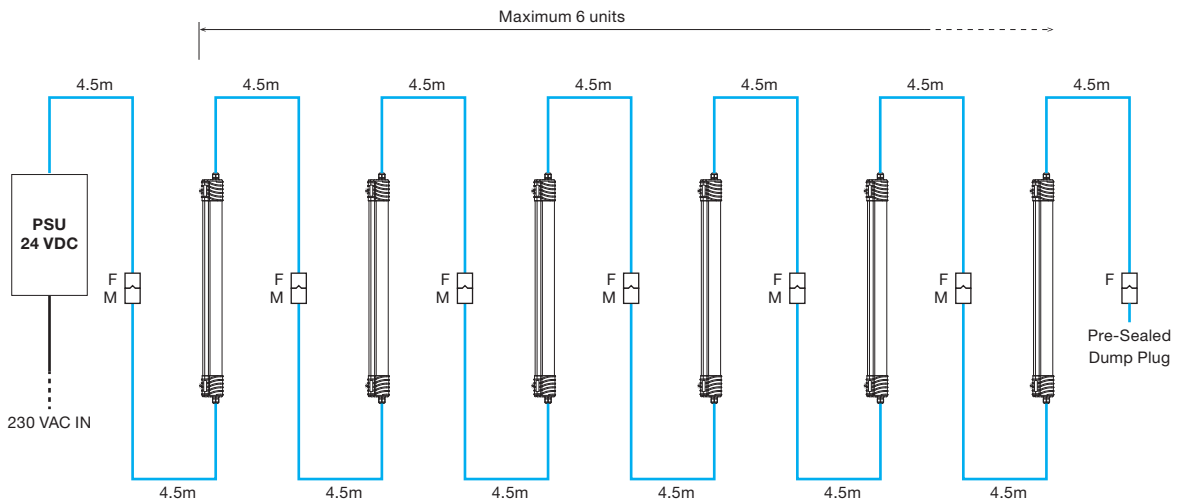
PROUDLY MADE IN AUSTRALIA

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



WIRING DIAGRAM



TECHNICAL SPECIFICATIONS

Make/Model

Model	DC2
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Optical Characteristics

Luminous Flux (Photometered)	1922lm
CCT	CWT 5000 – 6500K
CRI	>80

Electrical Characteristics (Luminaire)

Power Consumption	18 – 20W Typical
Nominal Voltage	24 VDC
Voltage Range	23 – 50 VDC
Cable Diameter	7.5 mm
Cable Length	4.5 metres (each end)

Environmental

IP Rating	IP66
Impact Rating	IK09
Operating Temp. Range	-20 to +45°C
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Polycarbonate
Material Composition (Diffuser)	Polycarbonate

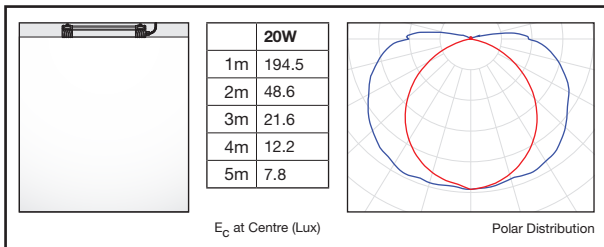
Weight/Packaging

Luminaire Weight	1.1kg
Packaging Dimension	1000 x 100 x 50mm
Packaging Weight	1.2kg

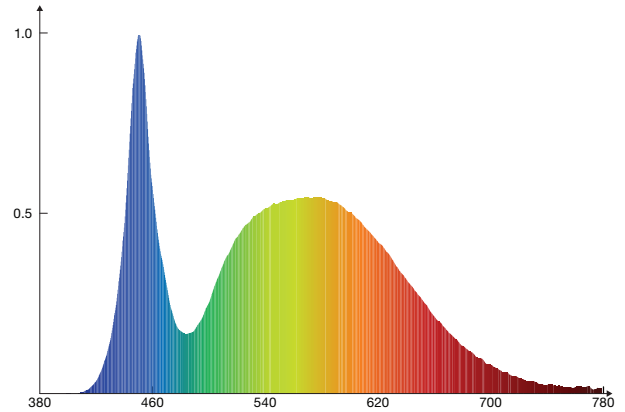
Warranty

Warranty	3 years warranty as standard
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ILLUMINANCE AT DISTANCE



SPECTRAL DISTRIBUTION



CCT	5186K
Colour Rendering Index	80.6
Efficacy	94.2lm / W
Power	20.2W
Luminous Flux (Spectrophotometry Result)	1902lm

ORDERING EXAMPLE

DC2 - 20 - CWT - 24 - LQCBS - 4.5 - KIT2

PRODUCT	TYPE	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH
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PRODUCT	TYPE	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH
DC2 2ft LED Mining Lead Light	20 20W	CWT Cool White	24 24VDC	LQCBS Quick-Connect Type Cable Looms on Both Sides	4.5 4.5m on Each Side

DC2 KIT OPTIONS

KIT	UNIT SUPPLIED	DESCRIPTION
KIT2	6 x DC2-20-CWT-24- LQCBS-4.5	2ft LED Mining Lead Light, 20W, Cool White, 24VDC, Quick-Connect Type Cable Looms on Both Sides, 4.5m cable lengths on each side
	1 x PWR-CLN-240-24-LQC-093SS	Coolon Industrial Power Supply 320W, 24VDC in 093 Stainless Steel Enclosure
	1 x ACC-LQC-DMPS	Accessory Cable Loom with Quick Connect Type Plug on one side (Male) and Pre-sealed Dump Plug on the other
	1 x ACC-LQC-F	Accessory Cable Loom with Quick Connect Type Plug on one side (Female)
	12 x TBM6HES3	Chain Rigging Hook and Eye Turnbuckle SS316
	12 x Carabin50-SS316	Carabin50 SS316