



 COOLON

DC4

40W LED Mining Lead Light

Portable work light LED luminaire, 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 DC4 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
- General Area Lighting
- Workshop 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 48VDC





Reliability, where it counts

DC4 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, DC4 LED is easily adoptable for many underground applications.

Quick connect, flexible lighting system

DC4 comes pre-wired out of the box and is ready for installation right away. Simply attach the light to the surface and plug the connectors together. No tools, no isolation and no qualified labour required. With DC4, the lighting system will be up and going 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.



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.



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.

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.



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.

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.

L70

LONG USEFUL OPERATING LIFE

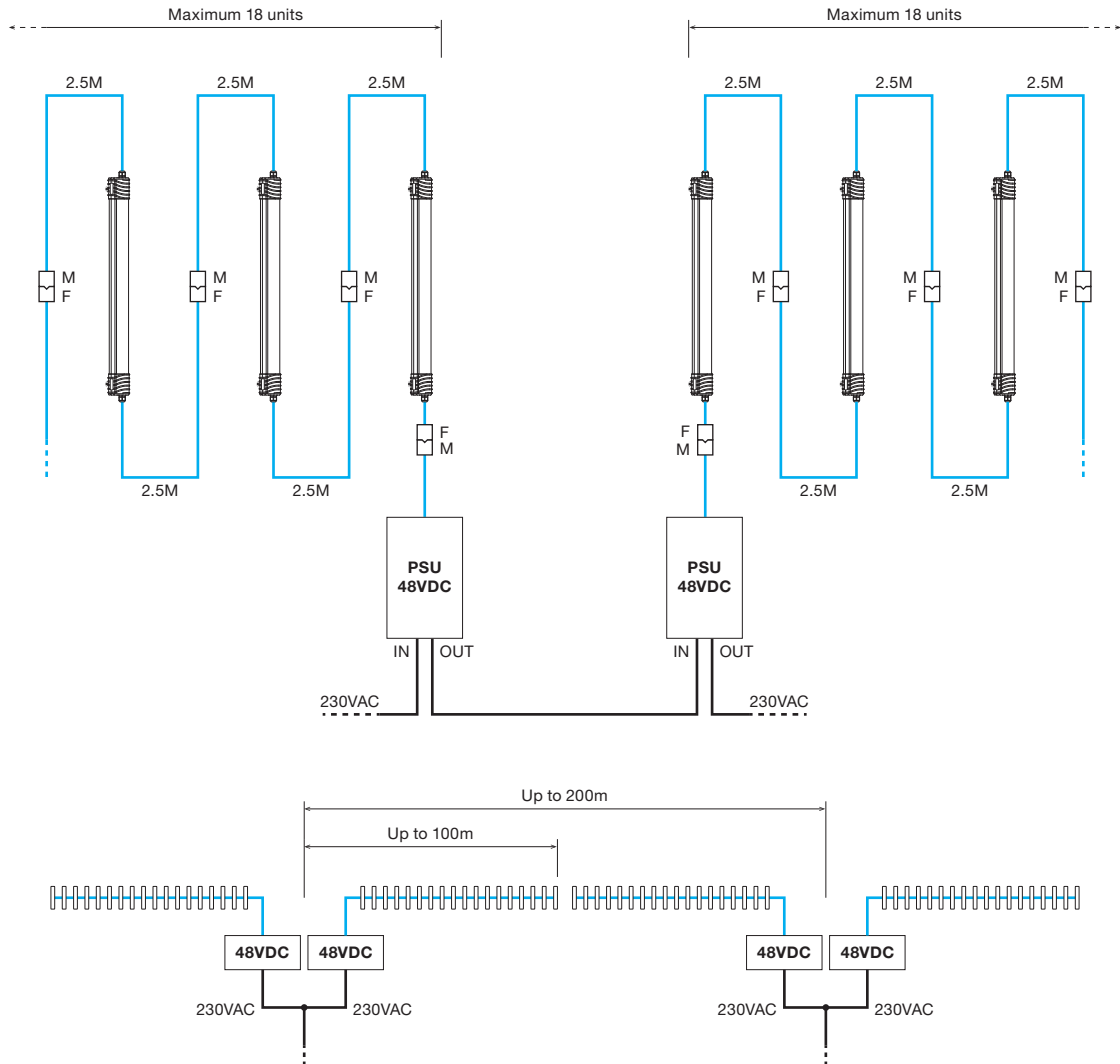
Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



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.

WIRING DIAGRAM



TECHNICAL SPECIFICATIONS

Make/Model

Model DC4

Optical Characteristics

Luminous Flux (Photometered) 3709lm
 CCT Cool White 5100 – 5500K
 CRI >80

Electrical Characteristics (Luminaire)

Power Consumption 41.5W Typical
 Nominal Voltage 48 VDC
 Voltage Range 44 – 56VDC
 Cable Diameter 7.5mm
 Cable Length 2.5 metres (each end)

Environmental

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

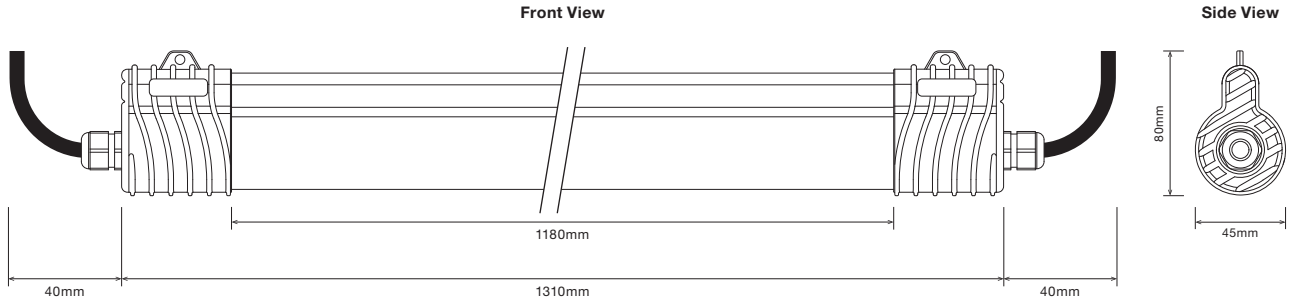
Weight/Packaging

Luminaire Weight 1.6kg

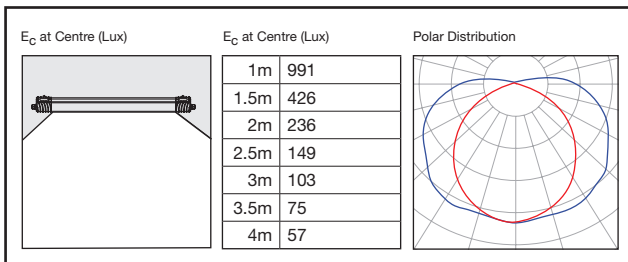
Warranty

Warranty 3 years warranty as standard

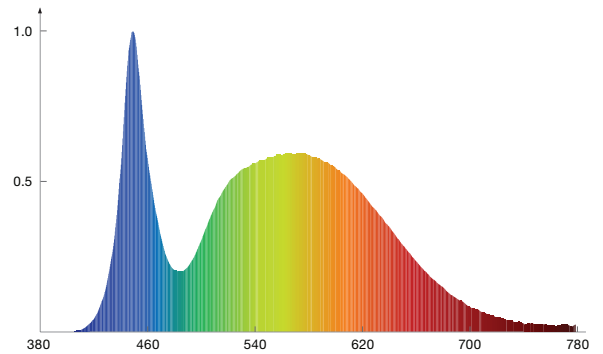
DIMENSIONS



POLAR DISTRIBUTION



SPECTRAL DISTRIBUTION



CCT	5200K
Rendering Index	80.9
Flux	3709lm
Efficacy	90.2lm/w
Radiant	4656.6mW

ORDERING EXAMPLE

DC4 - 40 - CWT - 48V - LQC2BS - 2M5

PRODUCT	TYPE	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH
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PRODUCT	TYPE	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH
DC4 4ft LED Mining Lead Light	40 40W	CWT Cool White	48V 48VDC	LQC2BS Quick-Connect Type Cable Looms on Both Sides	2M5 2.5m on Each Side