



 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 the 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 luminaire.

#### 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.





## 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 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.



### 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.

**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.



### 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.

**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.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

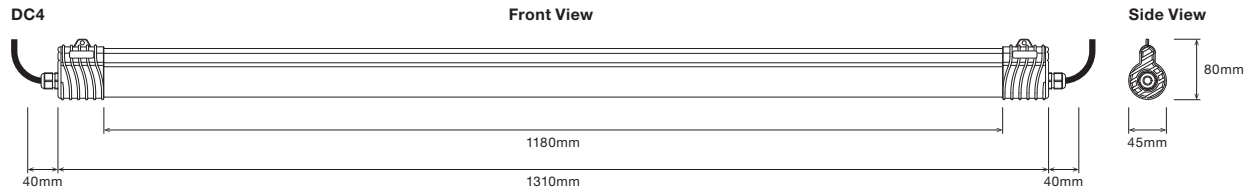
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



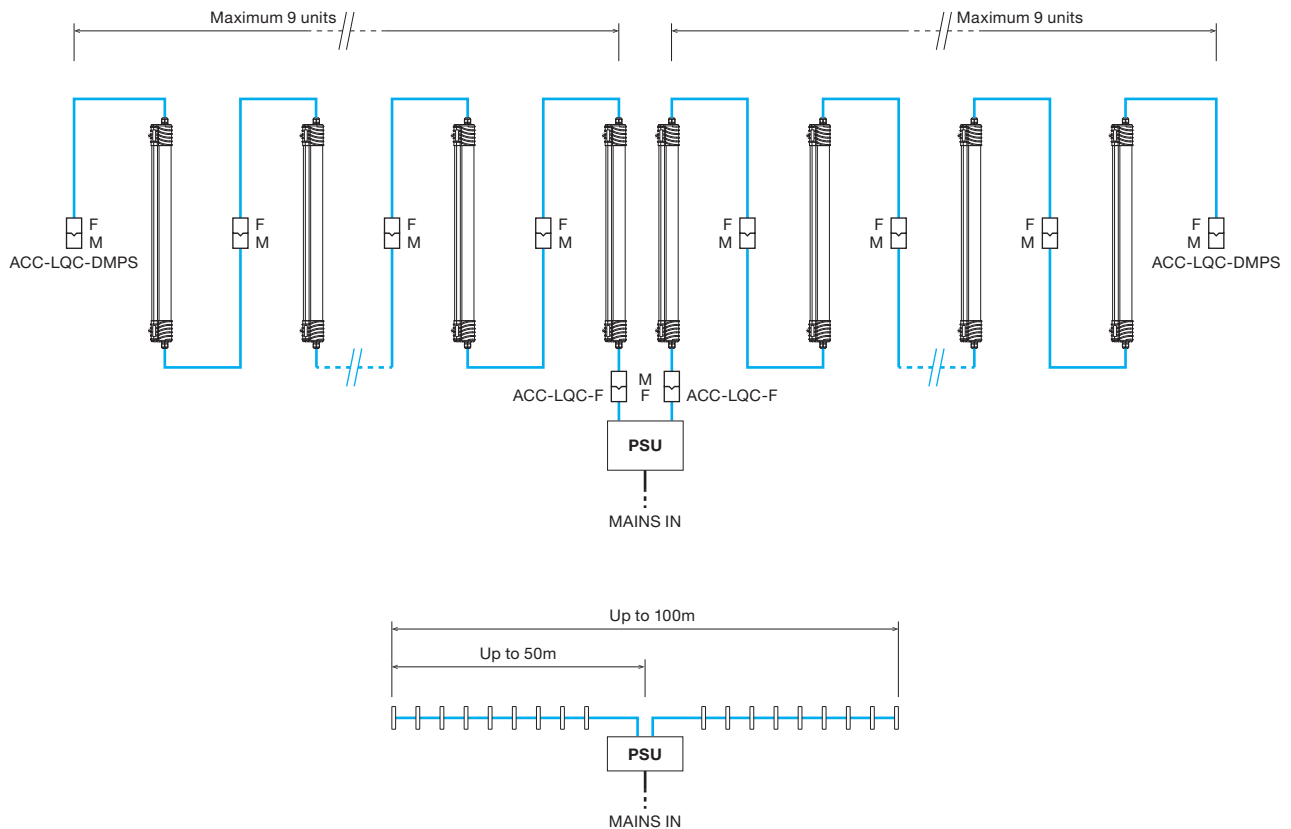
### PROUDLY MADE IN AUSTRALIA

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



\* Power supply dependent on load requirements.  
Power supply used and system structure is altered to suit relative application.  
Power supplies are available in Aluminium or Stainless Steel enclosures in varying power up to 960W.  
Contact Coolon for kit creation to suit particular requirements.

## 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

Voltage 23 – 50VDC

Nominal Voltage 48VDC

Cable Diameter 7.5mm

Cable Length 2.5 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

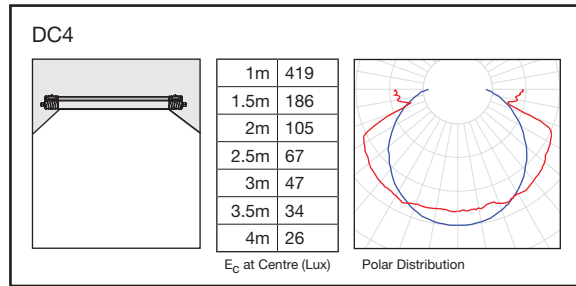
### Weight/Packaging

Luminaire Weight 2.0kg

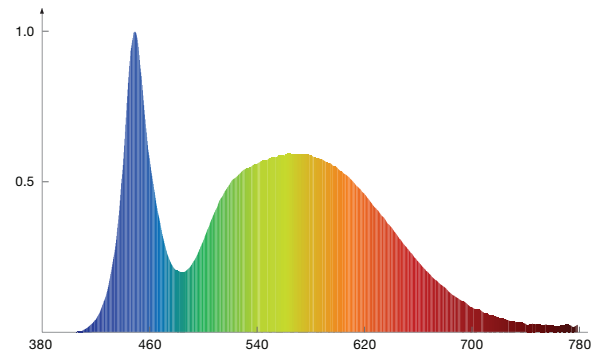
### Warranty

Warranty 3 years warranty as standard

## POLAR DISTRIBUTION



## SPECTRAL DISTRIBUTION



### DC4

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

## ORDERING EXAMPLE

### DC4 - CWT - LQCBS

TYPE

COLOUR  
TEMPERATURE

CONNECTOR  
LOOM

PRODUCT	COLOUR TEMPERATURE	CONNECTOR LOOM
DC4      40W 4ft LED Mining Lead Light	CWT      Cool White	LQCBS      Male + Female Quick Connect Type Cable Looms

## ASSOCIATED PRODUCTS

PART #	DESCRIPTION
ACC-LQC-F	LQC Female Cable Loom 2.5m
ACC-LQC-DMPS	LQC Loom Termination Dump Plug