



Purpose built for operation in harsh underground environments

The AC2 LED combines IP66 and IK09 impact ratings with support for a wide range of AC and DC voltages to make it a perfect replacement for commonly used low voltage fluorescent lead lights.

The use of the latest low glare, remote phosphor LED lighting technology makes it the ideal candidate for most underground mining applications.

Designed for use in:

- Switchboard / Switchroom
- Harsh Underground Lighting
- Local Area Lighting
- Workshop Lighting



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.

Voltage Range: 23 - 35 VAC, 22 - 48 VDC







Reliability, where it counts

AC2 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 AC and DC range, AC2 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.



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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 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.





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.





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.



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

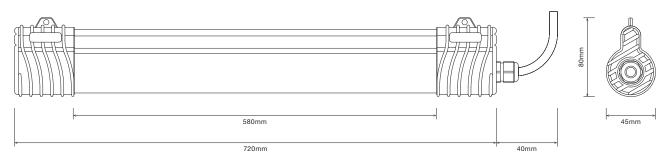
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.



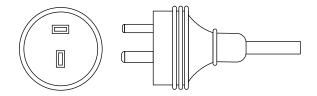
DIMENSIONS & CONFIGURATIONS

Front View

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Side View
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PLG32 - 492/32 VAC Plug



WR2OS - 2 Core Cable Exposed



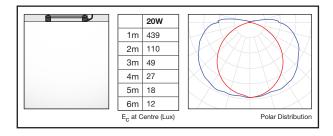
TECHNICAL SPECIFICATIONS

Make/Model	AC2 LED Mining Lead Light	
Model	AC2	
Optical Characteristics		
Luminous Flux (Photometered)	1,779 lm	
CCT	NWT	
CBI	>80	
	200	
Electrical Characteristics (Luminaire)		
Power Consumption	20W	
Nominal Voltage	24 VDC 30 VAC	
Voltage Range	22 – 48 VDC 23 – 35 VAC 50Hz	
Power Factor (AC supply)	0.5	
Cable Diameter	7.5mm	
Cable Length	3 Meters	
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	
wanancy	5 years extended warranty optional	

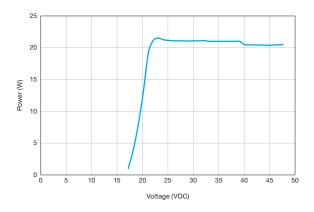
¹ Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.



ILLUMINANCE AT DISTANCE

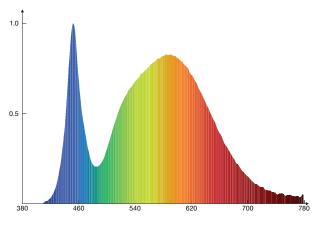


SUPPLY VOLTAGE VS POWER ¹



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.

SPECTRAL DISTRIBUTION



CCT	4,047K
Colour Rendering Index	81.2
Efficacy	90.3lm / W
Power	20W
Luminous Flux (Spectrophotometry Result)	1,779lm

(Spectrophotometry Result)

ORDERIN			
AC2	- NWT -	WR2OS	
PRODUCT	COLOUR TEMP	TERMINAL	
PRODUCT	COLOUR TEMP		TERMINAL
AC2	NWT Neutra	al White	WR2OS 2 Core Cable Exposed
			PLG32 Fitted with 492/32 type Plug

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