



 COOLON

# MACHINE LIGHT

25W Local Area Lighting

## Compact machine light for harsh environments

A compact light specifically designed for harsh environments like mobile plant cabins and engine bays.

Designed for use in confined spaces with harsh environmental conditions. Compact size, robustness and extreme resilience to abuse by environmental conditions make this an ideal luminaire for industrial machinery applications.

### Designed for use in:

- Excavator Engine Bay
- Fluorescent Replacement
- Hydraulic Snake Pit
- Machine House Lighting
- Machine Operator Cabin
- Switch Board Lighting

 DESIGNED &  
MANUFACTURED  
IN AUSTRALIA



## Compact Light Source

Measuring at only 86mm wide, 481mm long and 38mm deep, the Machine Light is perhaps the most compact and versatile luminaire for many challenging industrial lighting applications.



## Robust & Virtually Indestructible

Machine LED is made out of two part powder coated aluminium die casting. This solid construction ensures easy installation and maximum rigidity for all demanding applications.



### 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 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.



### QUALITY WHITE LIGHT W/ HIGH CRI

This luminaire emits light with a spectrum closely resembling that of a natural daylight with relatively high colour rendering index (typical CRI of between 75 – 80), enabling excellent colour differentiation.

**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.



### 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.

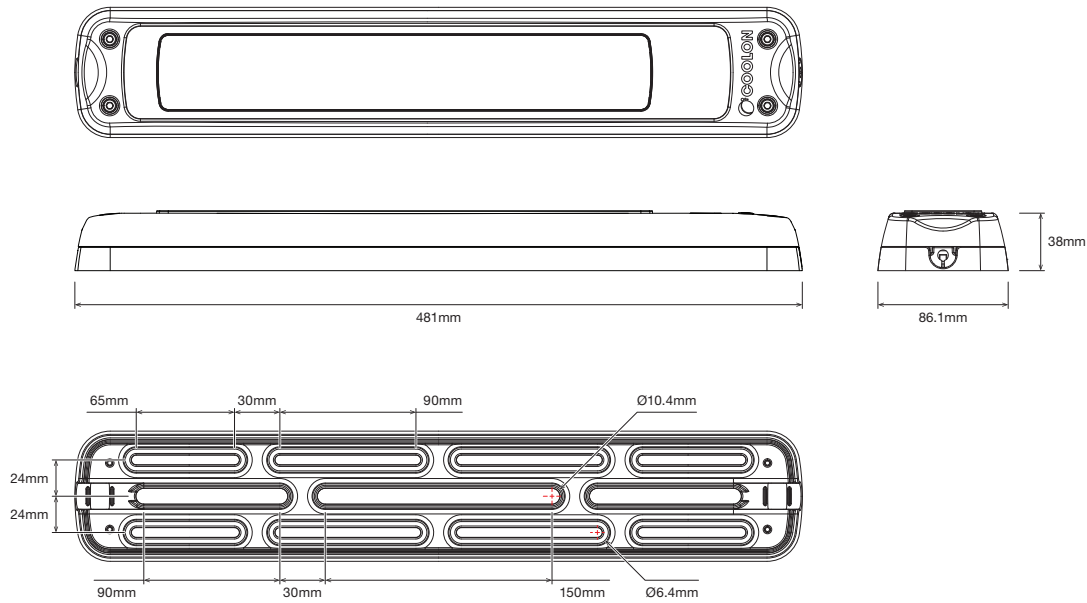


### PROUDLY MADE IN AUSTRALIA

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

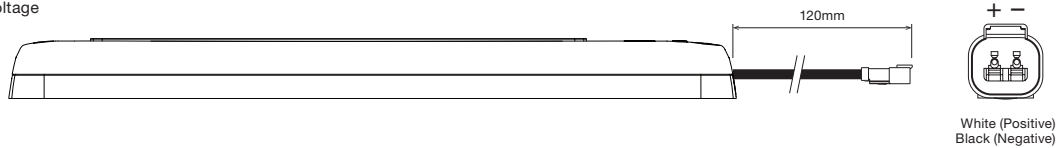
### Machine Light



## CONFIGURATION

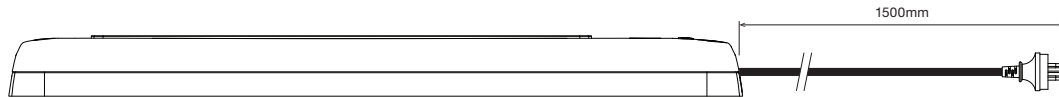
### ELV

Extra Low Voltage



### MP

Mains Powered



## TECHNICAL SPECIFICATIONS

Product	Machine Light Local Area Lighting		
Model	MC22 Low Voltage (24V)	MC22 Low Voltage (12V)	MC22 Mains Powered (MP)
<b>Optical Characteristics</b>			
Luminous Flux (Photometered)	3,325 lm	3,005 lm	2,813 lm
CCT	NWT / WWT	NWT / WWT / AMB	NWT / WWT
CRI	80+ excluding Amber		
<b>Electrical Characteristics (Luminaire)</b>			
Power Consumption	25W @ 24VDC	19.5W @ 12VDC	20W @ 230VAC
Nominal Voltage	24VDC	12VDC	230VAC
Voltage Range	23 – 27VDC	12 – 16VDC	180 – 255VAC
Frequency Range	-	-	47 – 63Hz
Power Factor	-	-	>0.95 @ 230VAC
Cable Type	UL2464, 16 AWG x 2C Braid PVC, UV Resistant		PVC black 1mm <sup>2</sup> 3 core with AU plug
Cable Diameter	7.5mm	7.5mm	7.5mm
Cable Length	120mm	120mm	1,500mm

### Environmental

IP Rating	IP66
Impact Rating	IK09
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 Aluminum Alloy
Material Composition (Cover)	Protective Polycarbonate Clear Cover sealed using PU Resin

### Weight/Packaging

Luminaire Dimensions	481 x 86.1 x 38mm
Luminaire Weight	1.4kg
Packaging Dimensions	500 x 90 x 50mm
Packaged Weight	1.6kg

### Warranty

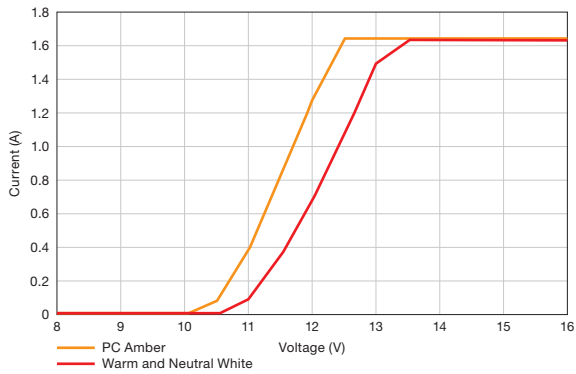
Warranty	3 years warranty as standard 5 years extended warranty optional
----------	--

<sup>1</sup> Optical and electrical characteristics are measured using Neutral White LEDs (NWT)

<sup>2</sup> 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.

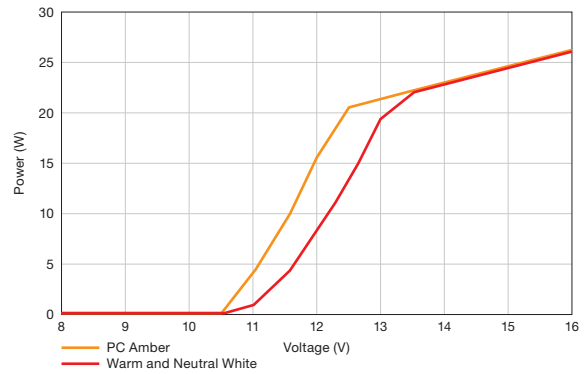
## CURRENT VS VOLTAGE

Machine Light 12V

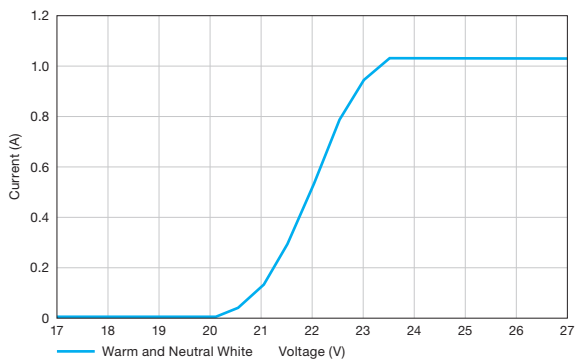


## POWER VS VOLTAGE

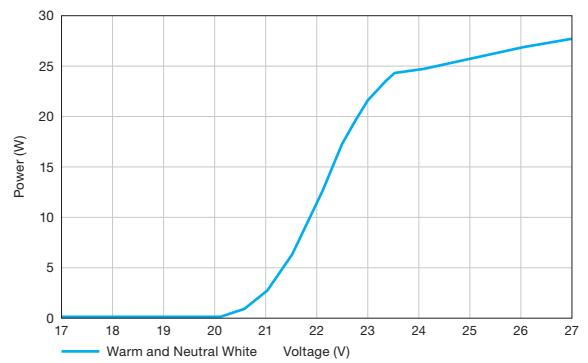
Machine Light 12V



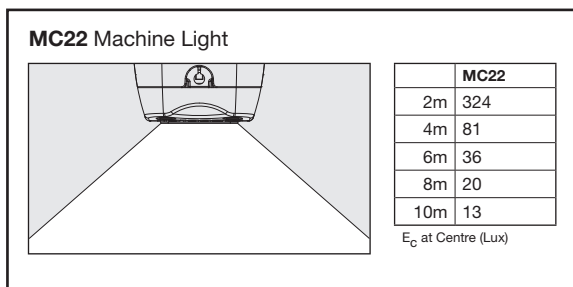
Machine Light 24V



Machine Light 24V



## ILLUMINANCE AT DISTANCE



## ORDERING EXAMPLE

**MC22 - NWT - 12**

PRODUCT                      COLOUR TEMPERATURE                      SUPPLY OPTION

PRODUCT	COLOUR TEMPERATURE		SUPPLY OPTION	
MC22	NWT	Neutral White	12	12VDC Nominal
	WWT	Warm White	24	24VDC Nominal
	AMB <sup>1</sup>	PC Amber	MP	230VAC Nominal

<sup>1</sup> PC Amber (AMB) only available in 12V Nominal (12)