



 COOLON

# MACHINE LIGHT

20W Local Area Lighting

The Machine Light is a robust and efficient LED alternative to most compact industrial light sources.

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 all industrial applications.

Available in Low Voltage and Emergency backed versions which allows the luminaire to continue operation for over 4 hours on battery backup.

#### Designed for use in:

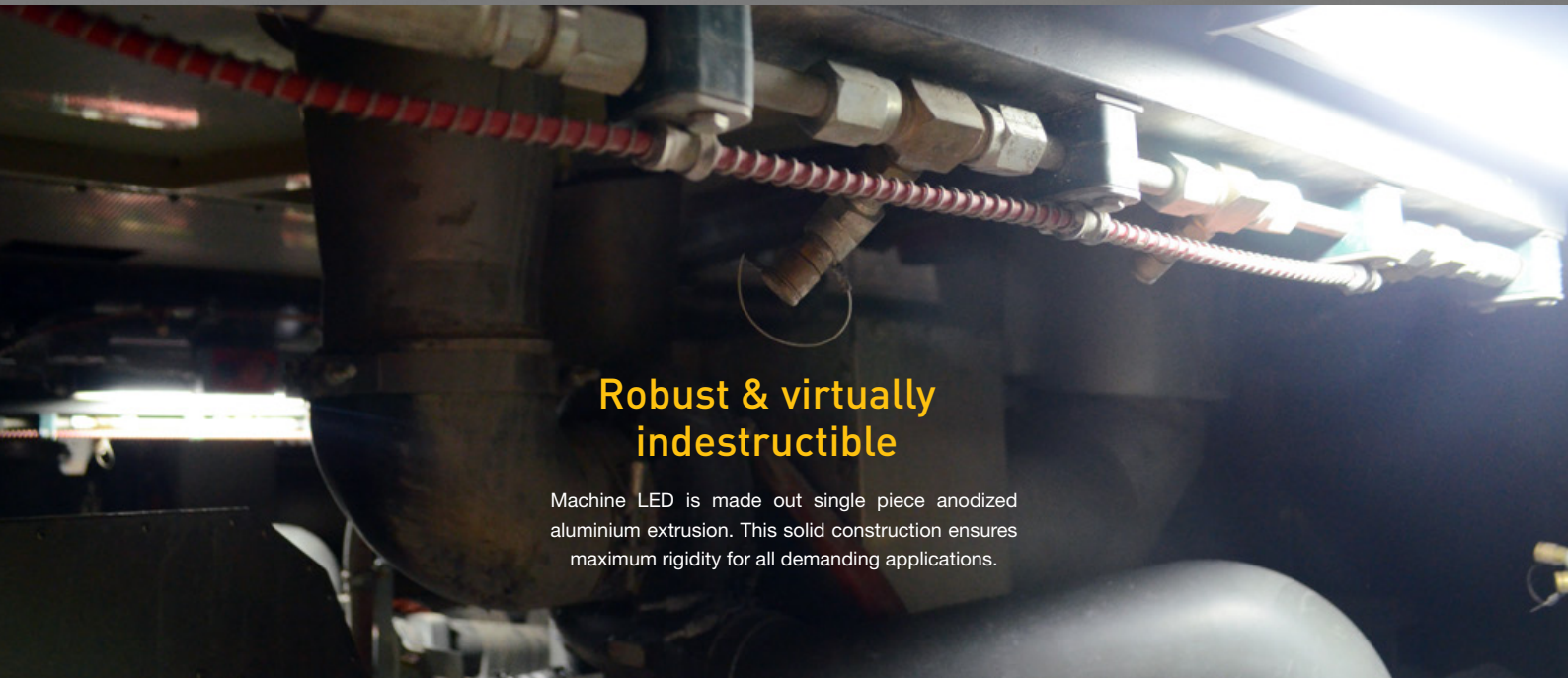
- Excavator Engine Bay
- Fluorescent Replacement
- Hydraulic Snake Pit
- Machine House Lighting
- Machine Operator Cabin
- Switch Board Lighting





## Compact light source

Measuring at only 66mm wide, 330mm long and 50mm 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 single piece anodized aluminium extrusion. This solid construction ensures 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.



### 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 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.

**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.



### 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.



### 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.

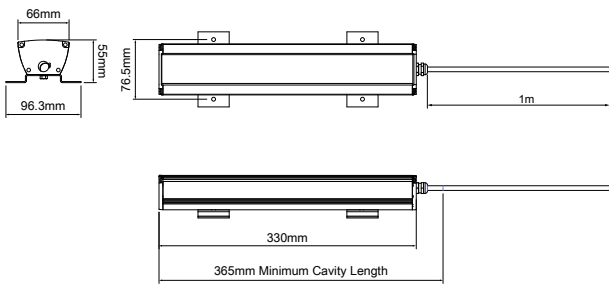


### PROUDLY MADE IN AUSTRALIA

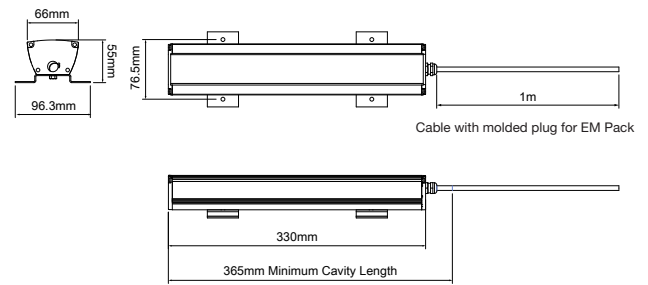
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

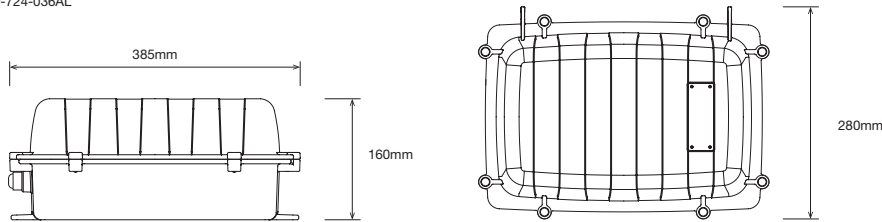
### MC22 - LVL



### MC22 - EML

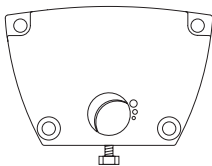


### Emergency Power Pack EMP-724-036AL



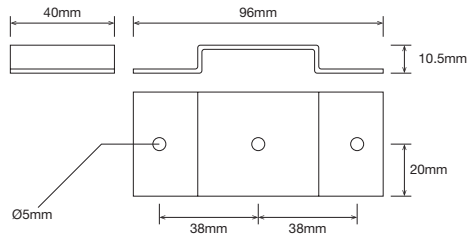
## MOUNTING OPTIONS

### No Mounting Bracket (NBR)



Mounting via 2pcs of  
M5 x 12mm screws  
(included)

### Flat Mounting Bracket (WBR)



## TECHNICAL SPECIFICATIONS

### Product

Model	LVL	EML
-------	-----	-----

### Optical Characteristics

Luminous Flux (Photometered)	920 lm	
Luminous Flux (LED Lumens)	2200 lm	
CCT	5500 – 6900K	
CRI	>70	

### Electrical Characteristics (Luminaire)

Power Consumption	20W @ 24VDC	
Nominal Voltage	24VDC	
Voltage Range	22 – 28VDC	
Cable Type	2 Core, Not Shielded	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	5.7mm, 21AWG	7.5mm
Cable Length	1m	3m

### Mounting Options

Screw Thread Size	M5	
Screw Length (Minimum)	12mm	

### Environmental

IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-30 to +75°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Aluminum Alloy (Marine Grade Black Anodized)
Material Composition (Optics)	Protective Polycarbonate Clear Cover
Material Composition (Bracket)	Stainless Steel 304

### Emergency (EMP)

Charge Time	8 hours
Battery Type	SLA
Discharge Time	Over 4 hours

### Weight/Packaging

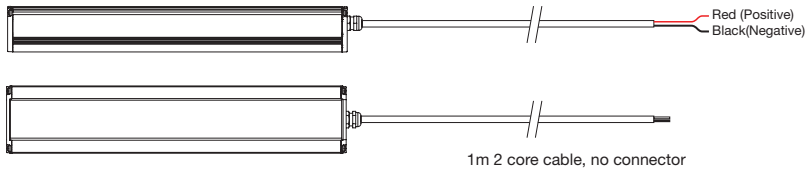
Luminaire Weight	1.3kg
Packaging Dimensions	400 x 160 x 100mm
Packaged Weight	1.5kg

### Warranty

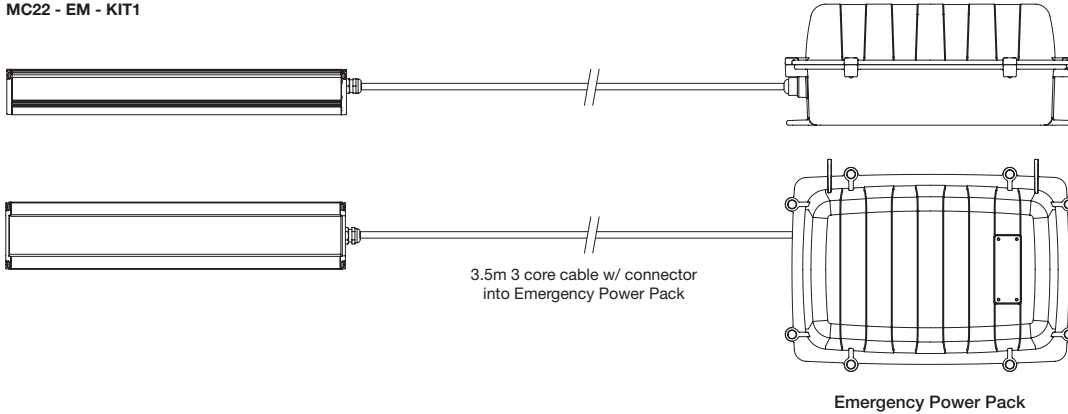
Warranty	3 years warranty as standard 5 years extended warranty optional
----------	--

## WIRING CONFIGURATION

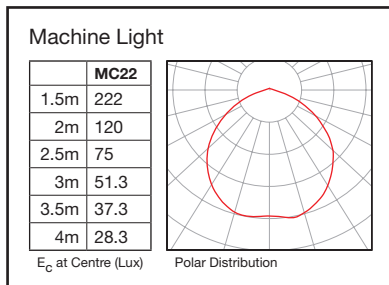
### MC22 - LVL



### MC22 - EM - KIT1



## ILLUMINANCE AT DISTANCE



## ORDERING EXAMPLE

**MC22 - 20 - CWT - WBR - LVL<sup>1</sup>**

PRODUCT      TYPE      COLOUR TEMP      MOUNTING      SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	MOUNTING	SUPPLY OPTION
MC22	20      Power 20W	CWT      Cool White WWT      Warm White	WBR      With Flat Mounting Bracket NMB      No Mounting Bracket	LVL      Low Voltage Luminaire EML      Luminaire for Emergency Pack EM-KIT1      Kit with AL Emergency Pack EM-KIT2      Kit with SS Emergency Pack

<sup>1</sup> If SUPPLY OPTION is not specified, Standard Low Voltage Luminaire will be supplied

If SUPPLY OPTION "EM" is specified without kit specification, KIT1 will be supplied

## MC22-EM KIT OPTIONS

KIT	UNIT SUPPLIED	DESCRIPTION
KIT1	MC22 - *** - *** - *** - EML	MC22 Luminaire for Emergency Pack
	EMP-724-036AL	Emergency Pack Aluminium Enclosure
KIT2	MC22 - *** - *** - *** - EML	MC22 Luminaire for Emergency Pack
	EMP-724-093SS	Emergency Pack Stainless Steel Enclosure