



 COOLON

TUNNEL RAY

60W LED Conveyor/Area Light

Robust build, remarkable efficiency and low glare light output, are the typical traits that make Tunnel Ray simply the ideal bulkhead luminaire.

Built on the backbone of the multi-award winning DLK, the Tunnel Ray is both lightweight and versatile with flexibility to fit many different applications.

The Tunnel Ray is designed to provide the most energy efficient way of delivering a level of luminance that far exceeds that of its comparable gas discharge lamp predecessors.

Designed for use in:

- Bulkheads
- Campsite Lighting
- Car Park Lighting
- Conveyor Walkways
- Enclosed & Confined Spaces
- General Area Lighting
- Pedestrian Road Ways
- Stacker / Reclaimers
- Stairwells
- Tunnels





High quality light output

The Tunnel Ray is the perfect choice of luminaire for applications that require:

- Energy Efficiency
- Glare Free High Quality White Light
- High Colour Rendering Index
- No Stroboscopic Effect


Robust, solid body design

Built on the backbone of the multi-award winning DLK, the Tunnel Ray uses the same, proven solid body technology that allows it to be compact, lightweight, robust and completely resistant to vibrations.

- Impact/Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations




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.

HIGH IP RATING - IP66

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.

LONG USEFUL OPERATING LIFE

L70

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 FACTORY WARRANTY

3 YEARS

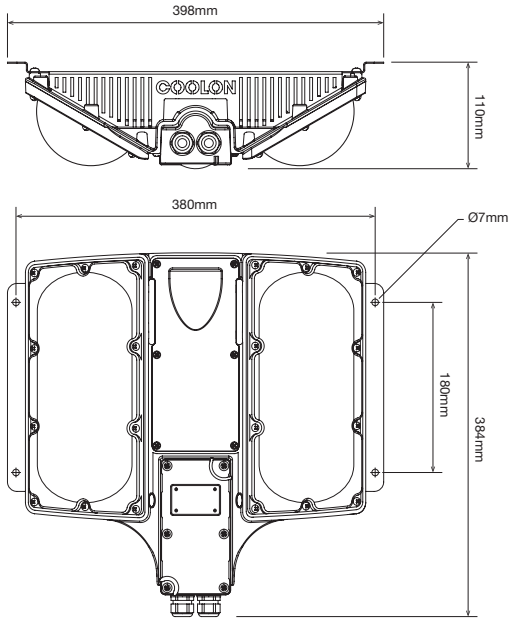
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

PROUDLY MADE IN AUSTRALIA

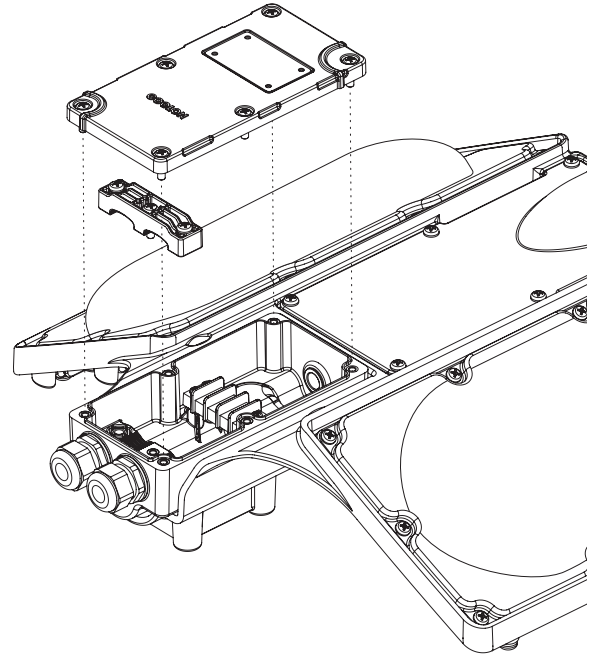


Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

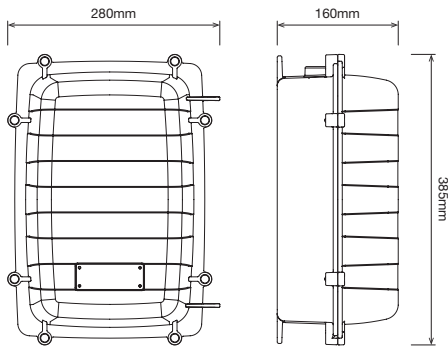
DIMENSIONS



EASY JUNCTION BOX ACCESS AND INSTALLATION



EMERGENCY POWER PACK (WHERE APPLICABLE)

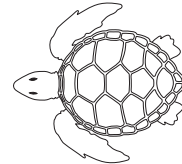


Tunnel Ray is versatile and can be backed with optional Coolon Emergency Pack. Emergency Tunnel Ray can be wired to be both maintained and non-maintained, eliminating the need for costly additional fittings. The Emergency Tunnel Ray will work for a minimum of 2 hours in case of power failure, far exceeding the requirements of Australian Standards.

For more detailed information on Coolon's Emergency Pack, and the range of Coolon's Emergency Backed LED luminaires, visit:

www.coolon.com.au/industrial/emergency

TURTLE FRIENDLY OPTION



Tunnel Ray is available in turtle friendly Amber. In many coastal areas white light may not be permitted for use, as it is believed to be disrupting breeding cycles of certain species of sea turtles. Coolon has specifically designed a variation of Tunnel Ray in 595nm (nanometers) Amber that is in the region of their lowest visual sensitivity.

TECHNICAL SPECIFICATIONS

Product			
Model	TNR (MP)	TNR (MP-WVR)	TNR (LVL)
Optical Characteristics			
Luminous Flux (Photometered)	5250 lm		5300 lm
Luminous Flux (LED Lumens)	6400 lm		6400 lm
CCT	CWT 5800K ~ 6900K AMB 1800K WWT 2700K ~ 3000K		
Electrical Characteristics (Luminaire)			
Power Consumption	62W Typical	62W Typical	62W Typical
Nominal Voltage	230VAC	230VAC	24VDC
Voltage Range	90 ~ 305VAC, 127 ~ 431VDC	180 ~ 528VAC, 254 ~ 747VDC	23 ~ 27VDC
Frequency Range	47 ~ 63Hz	47 ~ 63Hz	N/A
Power Factor	>0.95 / 230VAC	>0.98 / 230VAC >0.97 / 277VAC >0.97 / 347VAC >0.93 / 480VAC	N/A
Leakage Current	<0.75mA / 277VAC	<0.75mA / 480VAC	N/A

Environmental	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-30 ~ +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Aluminium Alloy (Anodised and E-Coated)
Material Composition (Optics)	PC LEV1700
Material Composition (Bracket)	Stainless Steel 316

Emergency (where fitted)	
Charge Time	8 hours
Battery Type	SLA
Discharge Time	Over 2 hours

Weight/Packaging	
Luminaire Weight	5.1kg with Hood
Bracket Weight	1.1kg SS Bracket
Packaging Dimensions (TNR)	460 x 440 x 180mm
Packaging Weight (TNR)	6.4kg (Standard)
Packaging Dimensions (EMP)	400 x 280 x 180mm
Packaging Weight (EMP)	10.75kg

Warranty	
Warranty	3 Years

WIRING CONFIGURATION

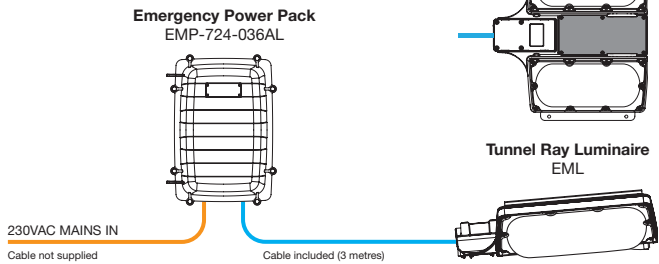
Tunnel Ray Luminaire - MP



Tunnel Ray Luminaire - LVL

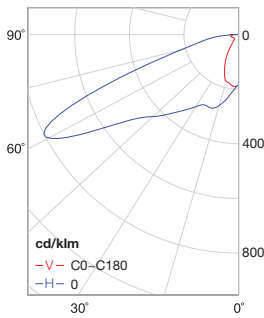


TNR Luminaire - EM - KIT1

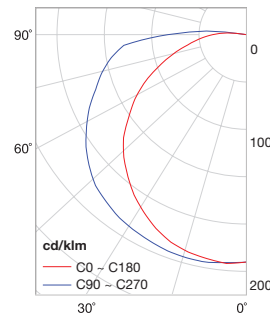


OPTICAL DISTRIBUTION

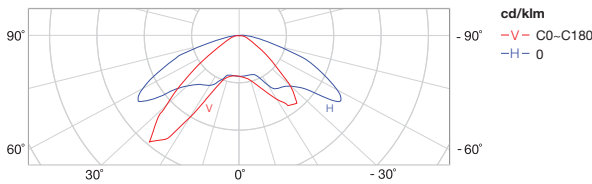
BW1 Batwing (Type 1 Optics)



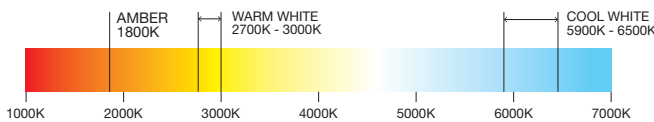
SY1 Symmetrical Diffuser



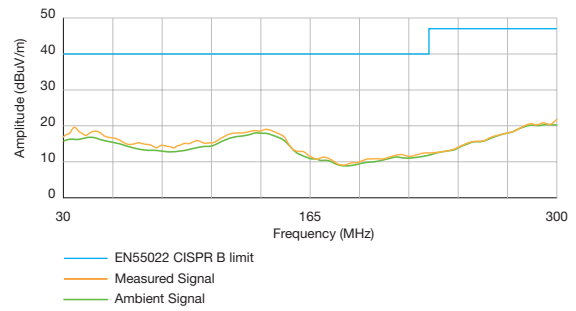
BW3 Batwing (Type 3 Optics)



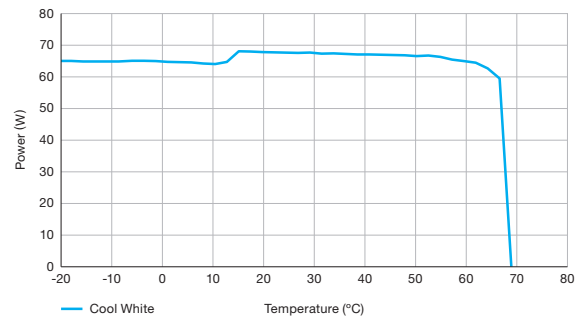
COLOUR TEMPERATURES



MINIMAL RADIATED EMI



AMBIENT TEMP VS POWER



ORDERING EXAMPLE

TNR - NLS - CWT - SY1 - MP¹

PRODUCT TYPE COLOUR TEMP OPTICS SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	SUPPLY OPTION
TNR	NLS No Day Light Sensor	CWT Cool White LEDs	BW1 Batwing Type 1	MP Mains Powered
	WLS With Day Light Sensor	WWT Warm White LEDs	BW3 Batwing Type 3	MP-WVR Wide Voltage Range
		AMB Amber LEDs	SY1 Symmetrical / Diffuser	LVL Low Voltage Luminaire
		GRN Green LEDs		EML Luminaire for Emergency Pack
				EM-KIT1 Kit with AL Emergency Pack
				EM-KIT2 Kit with SS Emergency Pack

¹ If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied

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

TNR-EM KIT OPTIONS

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