

©:COOLON

EMDLK2/EMTNR2

60W LED Conveyor/Area Light

A highly reliable conveyor/tunnel light with an inbuilt smart battery backup for emergency escape compliance to AS/NZS2293

The EMDLK2/EMTNR2 is both a highly reliable conveyor/tunnel light and smart backup emergency light compliant to AS/NZS2293 in a single unit. The smart battery backup system provides continuous self-monitoring which can be accessed using our Coolon mobile app.

The EMDLK2/EMTNR2 utilises a solid-state integral emergency module. The emergency power is provided by safe LiFePO4 cells with a host of intelligent management circuitry. The EMDLK2/EMTNR2 performs constant operational readiness tests, ensuring reliable emergency lighting will be available when needed

With a balance between performance, intelligence and reliability, the EMDLK2/EMTNR2 is the ultimate industrial integral emergency luminaire.



Designed for use in:

- Emergency Lighting
- Stairwells
- Conveyors
- Tunnels
- Walkways
- Stacker / Reclaimer
- Bulkheads
- General Area Lighting
- Pedestrian Access Ways









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.



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.



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.



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.



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

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.

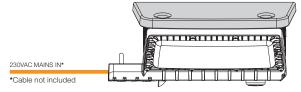


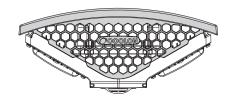
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All documentation is subject to change without notice. Refer to our website for the latest information.

WIRING CONFIGURATION

EMDLK2 / EMTNR2 Luminaire - MP





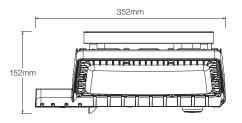
DIMENSIONS

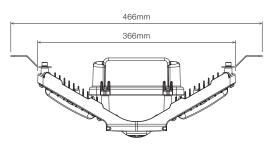
EMDLK2 Luminaire Side View 371mm

393mm

Front View

EMTNR2 Luminaire





TECHNICAL SPECIFICATIONS

Product	Emergency LED Conveyor / Area Light		
Model	EMDLK2 / EMTNR2		

Optical Characteristics

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Luminous Flux (Photometered)	4,436 – 5,509 lm (MP mode)	
CCT	CWT / WWT / GRN	
CRI	>70 excluding Green	

Electrical Characteristics (Luminaire)

Power Consumption	62W MP Mode			
Nominal Voltage	230VAC			
Voltage Range	176 – 305 VAC, 190 – 250VDC			
Frequency Range	47 – 63Hz			
Power Factor	>0.95 / 230VAC			
Inrush Current (I2t)1	0.016 A ² s			
Leakage Current	<0.75mA / 240VAC / 60Hz			
Charge Time	16 hours			
Battery Type	LiFeP0 ₄			
EM Discharge Time	120 minutes inital / 90 minutes in service			

Weigh	t/Pac	kagir	ıg

Luminaire Weight	7kg
Packaging Dimensions	560 x 470 x 230mm
Packaged Weight	9.4kg

Compliance (Safety Standards)

AS/NZS 60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires
AS/NZS 2293	Emergency lighting and exit signs for buildings
Compliance (EMC)	
AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
Warranty	
Warrantv	3 years warranty as standard

5 years extended warranty optional

Environmenta

Environmental			
IP Rating	IP66		
Impact Rating	IK09		
Salt Spray Tested	Yes		
Operating Temp. Range	0 to +50°C		
Thermal Management Type	Active / Continuous		
Expected Lifespan	50,000 Hours to 70% Brightness		
Material Composition (Body)	LM6 Aluminium Alloy (<0.1% copper content)		
Material Composition (Optics)	Polycarbonate		
Material Composition (Cover)	Polycarbonate		
Mounting/Bracket Type	U-Bolt Spigot Mount OD 32 – 44 mm		
Cable Gland	M20 x 1.5 SS316		
Cable Ø Entry Range	7 – 13mm		

 $^{^1}$ Note: At 220VAC input, 25° cold start, duration=112 μs , 10%lpk-10%lpk. See Inrush Current Waveform for the details.



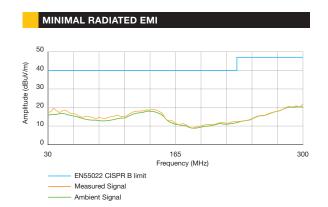
² Optical and electrical characteristics are measured using Cool White LEDs (CWT)

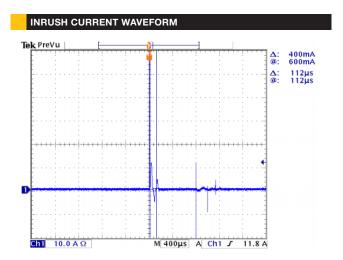
³ Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

COLOUR TEMPERATURES

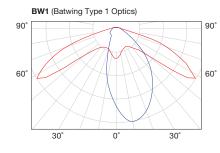


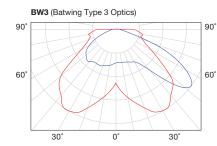
All colour temperatures are indicative. Some variation can occur.

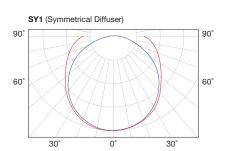




POLAR DISTRIBUTION







EMDLK2 ORDERING EXAMPLE



PRODUCT COLOUR TEMP		OPTICS		SUPPLY OPTION		
EMDLK2	CWT	Cool White	BW1	Batwing Type 1	MP	Mains Powered
EMTNR2	WWT	Warm White	BW3	Batwing Type 3		
	GRN	Green	SY1	Symmetrical / Diffuser		

