

©: COOLON DLK2 62W LED Conveyor/Area Light

Easy to install, highly reliable conveyor light

DLK2 offers the most robust and energy-efficient way of illuminating industrial conveyors, platforms and walkways. Capable of delivering the required minimum of 40 lux, even when lights are spaced up to 12m apart, and operating for years with next to no ongoing maintenance throughout all of the fixed plant infrastructure.

Also available in application-specific versions of Wildlife & Turtle Friendly Amber and Dark Sky Compliant.

Designed for use in:

- Conveyors
- Walkways
- Stairwells
- Stacker / Reclaimers
- Pedestrian Access Ways
- Campsite Area Lighting
 General Area Lighting
- General Area LightingMining Processing Plant
- Tunnels
- Bulkheads

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Material Washing and Crushing











Dark Sky Compliance

Lighting pollution is viewed as a negative product of most modern around-the-clock mining operations. It disturbs nocturnal animals, affects human circadian rhythms and severely impacts astronomy observatories.

The DLK2 is available in Dark Sky compliant configuration that features a specially designed hood as well as finetuned light specturm designed to control the effects of light pollution.





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.

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



HIGH IP RATING - IP66





L70

LONG USEFUL OPERATING LIFE

different applications and are high pressure washable.

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.



WIRING CONFIGURATION



TURTLE FRIENDLY OPTION



The DLK2 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 the DLK2 in 595nm (nanometers) Amber that is in the region of their lowest visual sensitivity.

TECHNICAL SPECIFICATIONS

Product	DLK2 LED Conveyor / Area Light					
Model	DLK2 Mains Powered (MP)	DLK2 Low Voltage (ELV)				
Optical Characteristics						
Luminous Flux (Photometered) *	3,020 – 5,000 lm	3,632 – 6,612 lm				
CCT	CWT / WWT / AMB / GRN	CWT / WWT / AMB / GRN				
CRI	>70 excluding amber and green					
Electrical Characteristics	(Luminaire)					
Power Consumption	62W Typical	62W Typical				

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Nominal Voltage	230VAC	24VDC
Voltage Range	90 – 305VAC, 127 – 431VDC	23 – 27VDC
Frequency Range	47 – 63Hz	N/A
Power Factor	>0.95 / 230VAC	N/A
Leakage Current	<0.75mA / 277VAC	N/A

IP Rating	IP66				
Impact Rating	IK09				
Salt Spray Tested	Yes				
Operating Temp. Range	-10 to +50°C	-10 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				

Luminaire Weight	5.9kg 5.9kg			
Packaging Dimensions (DLK2)	460 x 440 x 180mm			
Packaged Weight	6.9kg 6.9kg			
Compliance (Safety Standard	ds)			
AS/NZS 60598.1	Luminaires - General Requirements and Tests			
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires			
UL 1598 and CSA C22.2 No. 250.0-08 **	Luminaires			
UL 8750 **	Standard for Light Emitting Diode (LED) Equipment for use in Lighting Products			
CSA C22.2 No. 250.13-14 **	Power Supplies with Extra-Low-Voltage Class 2 Outputs			
AS/NZS 2293	Emergency escape lighting and exit signs for buildings			
AS/NZS 2293 Compliance (EMC) AS/NZS CISPR15		7		
Compliance (EMC)	and exit signs for buildings Limits and methods of measurement of radio	9		
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Compliance (EMC) AS/NZS CISPR15 FCC Part 15 Subpart B	and exit signs for buildings Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment Interference - Causing Equipment Standard, Is	sue		
Compliance (EMC) AS/NZS CISPR15 FCC Part 15 Subpart B Industry Canada ICES-005 **	and exit signs for buildings Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment Interference - Causing Equipment Standard, Is 4 Lighting Equipment, Dec 2015 American National Standard for Methods of Measurement of Radio-Noise Emissions from I Voltage Electrical and Electronic Equipment in	sue		

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

** UL / cUL listing only applies to MP version

² 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.



SPACINGS





MINIMAL RADIATED EMI



AMBIENT TEMPERATURE VS POWER



POLAR DISTRIBUTION



DLK2 ORDERING EXAMPLE

DLK2 - 60 - CWT - BW3 - MP¹

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PRODU	ICT	TYPE	COL	OUR TEMP	OPTICS	SUPPLY OPTION						
PRODUCT	TYPE		TYPE	COLC	OUR TEMP	OPTIC	s	SUPPLY OPTION		HOOD OPTION		
DLK2	60	60W	CWT	Cool White	BW1	Batwing Type 1	MP	Mains Powered	DS	Dark Sky Hood ²		
			WWT	Warm White	BW3	Batwing Type 3	ELV	Extra Low Voltage Luminaire				
			AMB	Amber	SY1	Symmetrical / Diffuser						
			GBN	Green								

¹ If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied ² Dark Sky Hood (DS) only available for Warm White LEDs (WWT)

