



 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
- Mining Processing Plant
- Tunnels
- Bulkheads
- Material Washing and Crushing





Lowest cost of installation

The DLK2 is so easy to install it can be done in minutes, without the need of any specialized tools. Simply open the hatch, connect the cable, tighten the gland, close the hatch.

The DLK2 is made to cut costs; even before it is ever turned on.

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 fine tuned light spectrum 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.



5 YEARS FACTORY WARRANTY

Coolon luminaires are covered by a solid comprehensive 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.

L70

LONG USEFUL OPERATING LIFE

At Coolon we believe the lifetime of a luminaire is so much more than just the LED's. Coolon product lifetime takes the entire luminaire into consideration and each product is backed by a comprehensive warranty – that's the Coolon confidence.

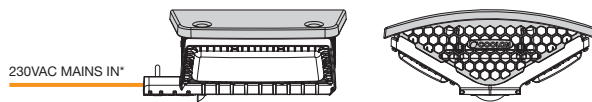


PROUDLY MADE IN AUSTRALIA

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.

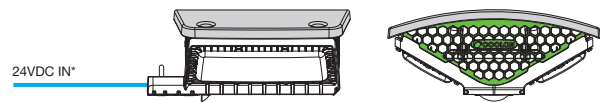
WIRING CONFIGURATION

DLK2 / EMDLK2 Luminaire - MP Grey Grill



* Cable not included

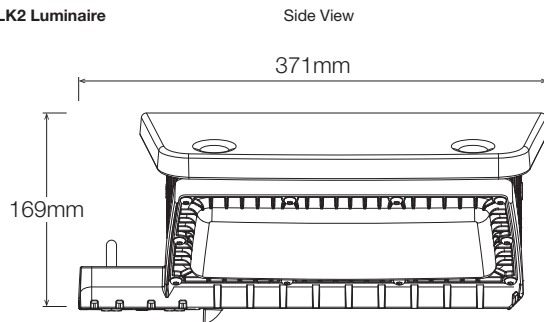
DLK2 Luminaire - ELV Green Grill



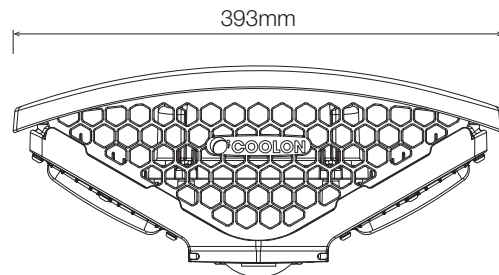
* Cable not included

DIMENSIONS

DLK2 Luminaire



Front View



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)*	4,526 – 6,180 lm	4,966 – 6,675 lm
CCT	CWT / WWT / AMB / GRN	
CRI	>70 excluding amber and green	

Electrical Characteristics (Luminaire)

Power Consumption	57W Typical	62W Typical
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

Environmental

IP Rating	IP66	
Impact Rating	IK09	
Salt Spray Tested	Yes	
Operating Temp. Range	-20 to +50°C	-20 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	

Sail Area

Horizontal Orientation	0.048m ²
------------------------	---------------------

Weight/Packaging

Luminaire Weight	5.9kg	5.9kg
Packaging Dimensions (DLK2)	460 x 440 x 180mm	
Packaged Weight	6.9kg	6.9kg

Compliance (Safety Standards)

AS/NZS 60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.3	Luminaires - Particular requirements - For road and street lighting

Compliance (EMC)

AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
----------------	---

Warranty

Warranty	5 years warranty as standard
----------	------------------------------

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

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.

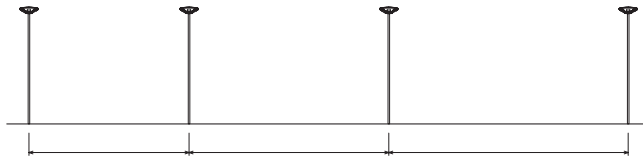
SPACINGS

Simulation Based on DLK2-60-CWT-BW1-MP

Mounting Height: 2.7m
Maintenance Factor: 0.7

Spigot Length: 0.2m
Walkway Width: 1m

* Drawing not to scale

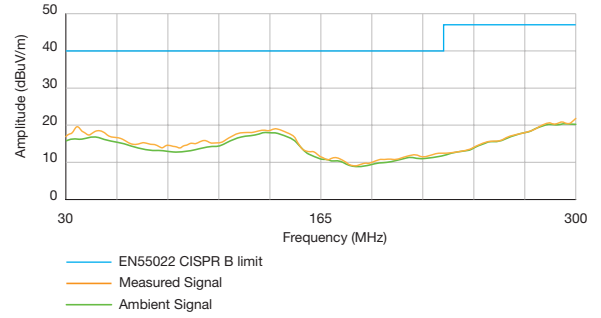


Spacing: 8 meters
Ave = 171 lux
Min = 97 lux
Min/Ave = 0.5

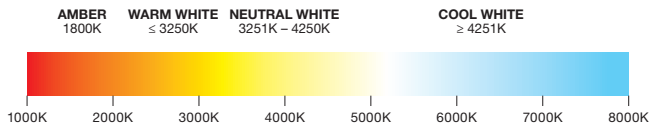
Spacing: 10 meters
Ave = 120 lux
Min = 75 lux
Min/Ave = 0.6

Spacing: 12 meters
Ave = 102 lux
Min = 43 lux
Min/Ave = 0.4

MINIMAL RADIATED EMI

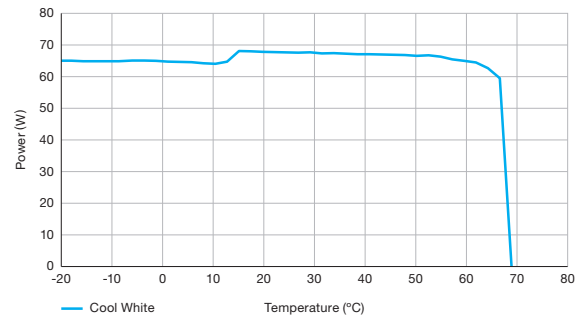


COLOUR TEMPERATURES



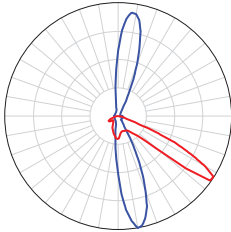
All colour temperatures are indicative. Some variation can occur.

AMBIENT TEMPERATURE VS POWER

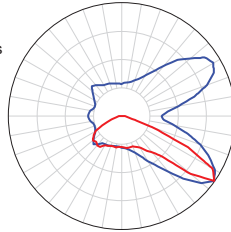


POLAR DISTRIBUTION

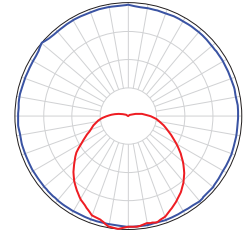
BW1
Batwing
Type 1 Optics



BW3
Batwing
Type 3 Optics



SY1
Symmetrical
Diffuser



DLK2 ORDERING EXAMPLE

DLK2 - 60 - CWT - BW3 - MP¹

PRODUCT TYPE COLOUR TEMP OPTICS SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	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				
			GRN	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)