



For a video demonstration, please scan the QR Code or visit <http://goo.gl/EX2TzS>

 **COOLON**

DLK

62W LED Conveyor/Area Light

The most energy efficient way of illuminating industrial conveyors and walkways.

DLK is designed to provide the most energy efficient way of illuminating industrial conveyors and walkways, capable of delivering the required minimum of 40 lux with an average of 80 lux, when spaced as far as 12m apart with a typical installation height of 2.7m and a 5 degree tilt. The typical power consumption of less than 62W converts into a mere 5W per linear meter of conveyor line (White LEDs version). Raising the bar of performance and efficiency for industrial conveyor and walkway lighting.

The robust unibody design is both lightweight and versatile with flexibility to fit many industry standard spigot mount installations.

Optional in-built daylight sensor will perform automatic switching between day and night modes to substantially decrease power consumption.

The DLK is also available in a Wildlife/Turtle Friendly Amber version.

Designed for use in:

- Bulkheads
- Campsite Area Lighting
- Car Parks
- Conveyors
- General Area Lighting
- Pedestrian Access Road Ways
- Stackers / Reclaimers
- Stairwells
- Tunnels
- Walkways





Push the light further than ever before

The DLK is designed to achieve a uniform quality of light, without dropping below 40 lux over the 12 meter area.

Solid body design

Unlike conventional conveyor lights DLK was designed to withstand constant abuse.

- Resistant to Vibration
- 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.

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.



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.

L70

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.

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.

WIRING CONFIGURATION

DLK Luminaire - MP Grey Hood and Guard



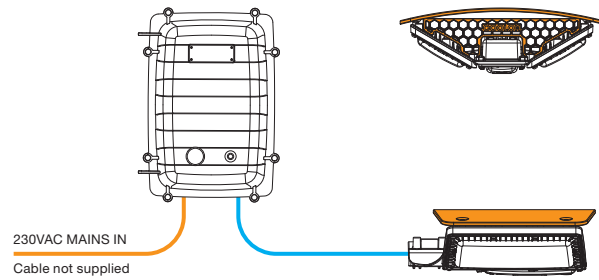
DLK Luminaire - ELV Grey Hood, Green Guard



DLK Luminaire - EM - KIT1

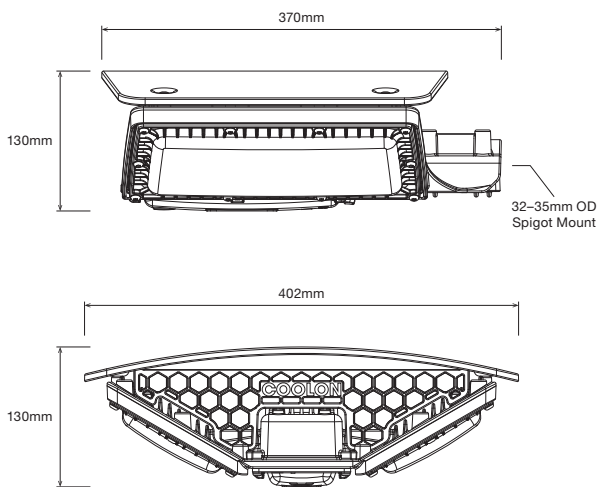
Emergency Power Pack EMP-724-036AL

DLK Luminaire - EML Orange Hood and Guard

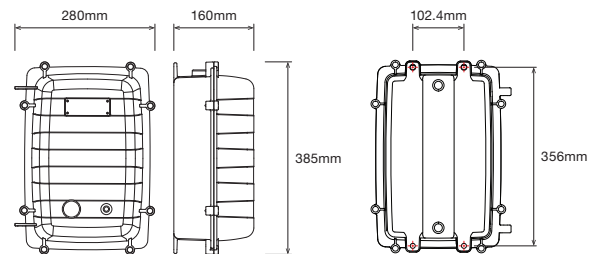


DIMENSIONS

DLK Luminaire

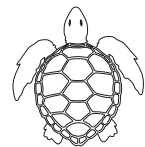


Emergency Power Pack (where applicable)



TURTLE FRIENDLY OPTION

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



TECHNICAL SPECIFICATIONS

Product	DLK LED Conveyor / Area Light	
Model	DLK Mains Powered (MP)	DLK Low Voltage (ELV)
Optical Characteristics		
Luminous Flux (Photometered)	3,632 – 6,612 lm	3,632 – 6,612 lm
CCT	CWT / WWT / AMB / GRN	
CRI	>70 excluding amber	
Electrical Characteristics (Luminaire)		
Power Consumption	66W Typical	62W Typical
Nominal Voltage	230VAC	24VDC
Voltage Range	90 – 305VAC, 127 – 431VDC	23 – 27VDC
Cable Type	Orange Circular 2.5 mm² 3 Core	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	10 – 12mm	7.5mm
Cable Length	3m	3m
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
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)	PC LEV1700
Material Composition (Cover)	Polycarbonate
Mounting/Bracket Type	Spigot Mount OD 32 – 35mm

Emergency Pack (Where fitted)

Charge Time	8 hours
Battery Type	LEAD CRYSTAL®
Discharge Time	Over 2 hours

Weight/Packaging

Luminaire Weight	4.95kg with Hood
Packaging Dimensions (DLK)	460 x 440 x 180mm
Packaged Weight (DLK)	6.3kg (Standard)
Packaging Dimensions (EMP)	400 x 280 x 180mm
Packaged Weight (EMP)	10.75kg

Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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¹ Optical and electrical characteristics are measured using Cool White LEDs (CWT)

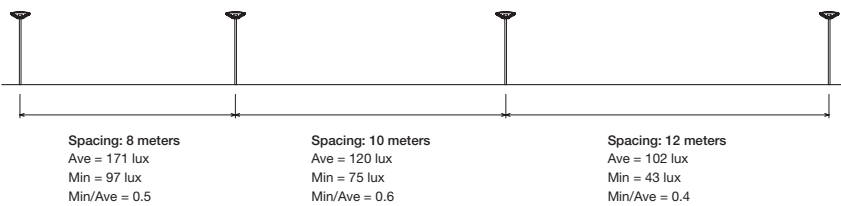
² Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

SPACINGS

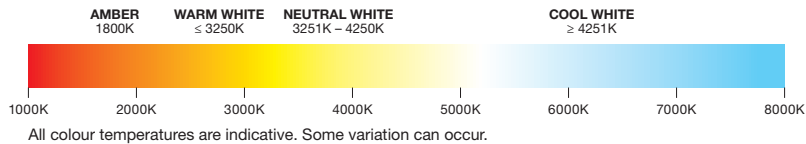
CWT-BW1 Optics Model

Mounting Height: 2.7m
Spigot Length: 0.2m
Maintenance Factor: 0.7
Walkway Width: 1m

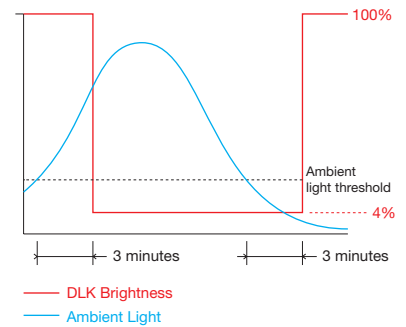
*Drawing not to scale



COLOUR TEMPERATURES

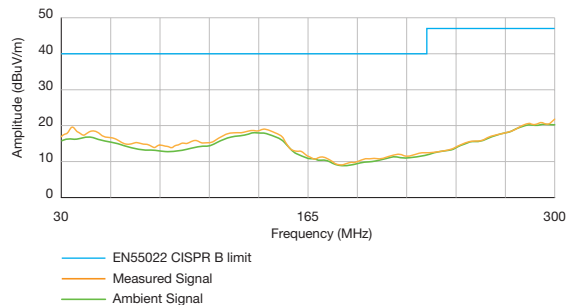


LIGHT SENSOR DIMMING

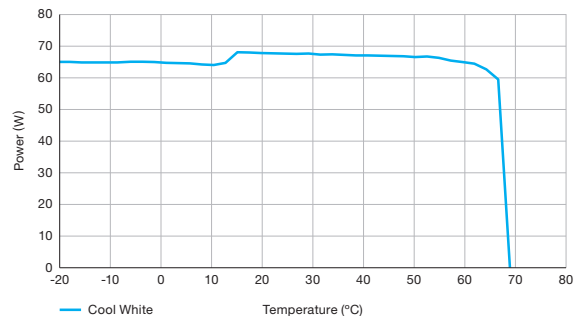


The DLK LED will be at 100% brightness when it is turned on and then will dim to 4% brightness when daylight is detected. 3 minutes after the daylight has dropped below the minimum ambient light threshold, the DLK LED will ramp up to 100% brightness. (Only applies to DLK equipped with light sensor)

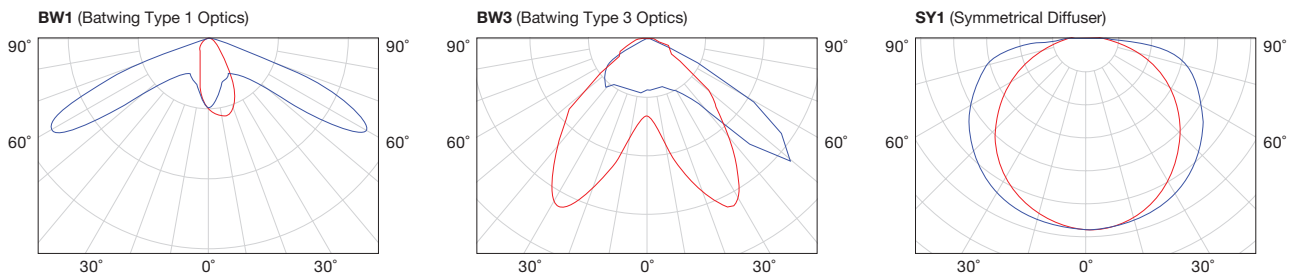
MINIMAL RADIATED EMI



AMBIENT TEMPERATURE VS POWER



POLAR DISTRIBUTION



ORDERING EXAMPLE

DLK - NLS - CWT - BW3 - MP¹

PRODUCT TYPE COLOUR TEMP OPTICS SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	SUPPLY OPTION
DLK	NLS	CWT	BW1	MP
	WLS	WWT	BW3	ELV
		AMB	SY1	EML
		GRN		EM-KIT1
				EM-KIT2

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

DLK-EM KIT OPTIONS

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