



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

 **COOLON**

# DLK

**62W LED Conveyor/Area Light**

The original, highly reliable, field-proven conveyor light

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. Raising the bar of performance and efficiency for industrial conveyor and walkway lighting.

The robust unibody design is both lightweight and versatile with the 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. Also available in Wildlife / Turtle Friendly Amber.

#### Designed for use in:

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





## 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 metre 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.

 **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**  
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

230VAC MAINS IN



### DLK Luminaire - ELV Grey Hood, Green Guard

24VDC IN

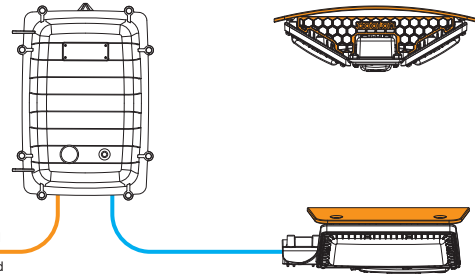


### DLK Luminaire - EM - KIT1

#### Emergency Power Pack EMP-724-036AL

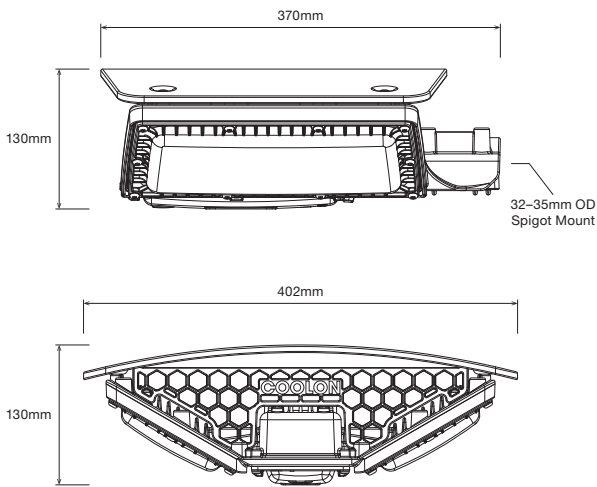
#### DLK Luminaire - EML Orange Hood and Guard

230VAC MAINS IN  
Cable not supplied

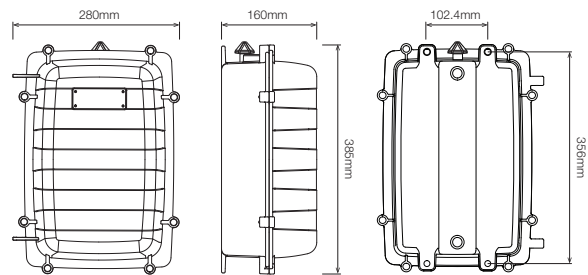


## DIMENSIONS

### DLK Luminaire

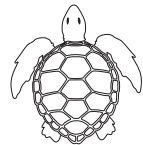


### Emergency Power Pack (where applicable)



## 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)
<b>Optical Characteristics</b>		
Luminous Flux (Photometered)	3,632 – 6,612 lm	3,632 – 6,612 lm
CCT	CWT / WWT / AMB / GRN	
CRI	>70 excluding amber	
<b>Electrical Characteristics (Luminaire)</b>		
Power Consumption	66W Typical	62W Typical
Nominal Voltage	230VAC	24VDC
Voltage Range	90 – 305VAC, 127 – 431VDC	23 – 27VDC
Cable Type	Orange Circular 2.5 mm <sup>2</sup> 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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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

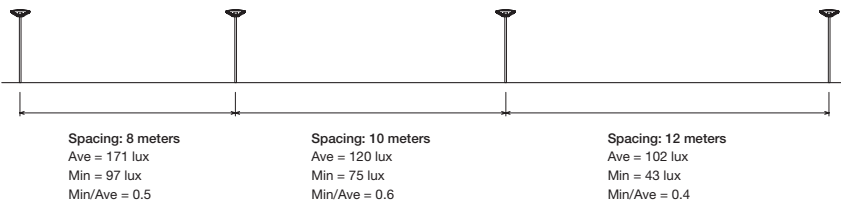
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior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

## SPACINGS

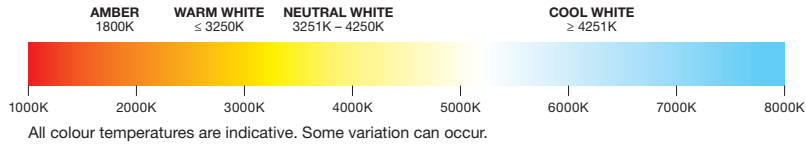
### CWT-BW1 Optics Model

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

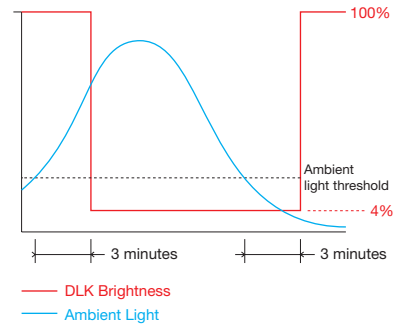
\*Drawing not to scale



## COLOUR TEMPERATURES

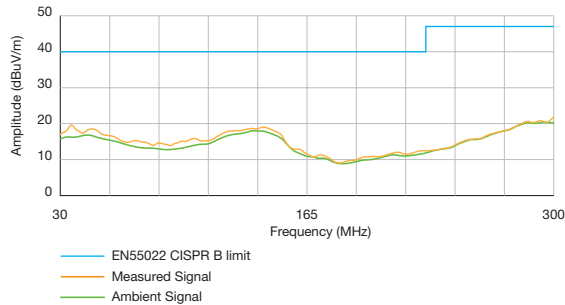


## LIGHT SENSOR DIMMING

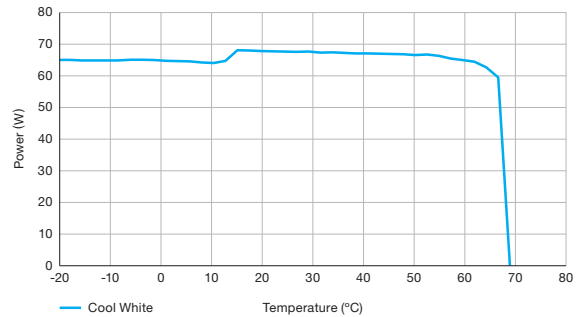


The DLK LED will be at 100% brightness when it is turned on and then will dim to 4% brightness when daylight is detected. 3 minutes after the daylight has dropped below the minimum ambient light threshold, the DLK LED will ramp up to 100% brightness. (Only applies to DLK equipped with light sensor)

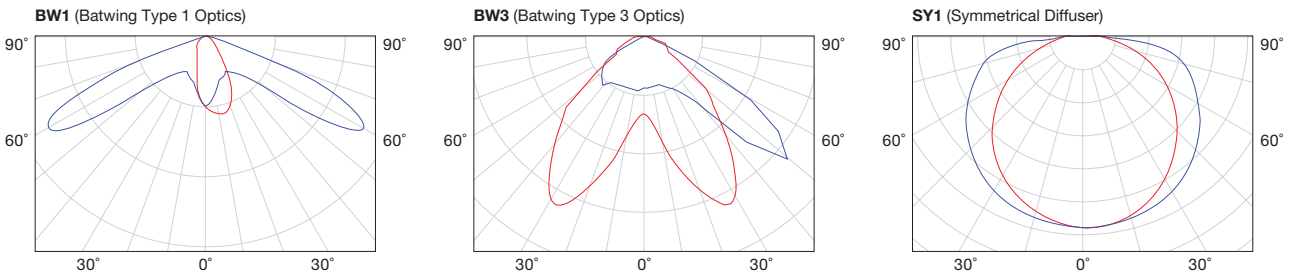
## MINIMAL RADIATED EMI



## AMBIENT TEMPERATURE VS POWER



## POLAR DISTRIBUTION



## ORDERING EXAMPLE

**DLK - NLS - CWT - BW3 - MP<sup>1</sup>**

PRODUCT      TYPE      COLOUR TEMP      OPTICS      SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	SUPPLY OPTION
DLK	NLS No Day Light Sensor	CWT Cool White	BW1 Batwing Type 1	MP Mains Powered
	WLS With Day Light Sensor	WWT Warm White	BW3 Batwing Type 3	ELV Extra Low Voltage Luminaire
		AMB Amber	SY1 Symmetrical / Diffuser	EML Luminaire for Emergency Pack
		GRN Green		EM-KIT1 <sup>2</sup> Kit with AL Emergency Pack
				EM-KIT2 <sup>2</sup> Kit with SS Emergency Pack

<sup>1</sup> If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied

<sup>2</sup> 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