



 COOLON

# ExDLK

62W LED Conveyor/Area Light

Highly reliable conveyor light designed specifically for high risk areas

Built on the backbone of the multi-award winning DLK, the ExDLK is both lightweight and versatile with flexibility to fit many different applications.

The ExDLK is designed to provide the most energy efficient way of delivering a level of luminance that far exceeds that of its comparable gas discharge lamp predecessors.

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

#### Designed for use in:

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





## Push the light further than ever before

The ExDLK 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 ExDLK 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.



### 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.



### 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.



### 3 YEARS FACTORY WARRANTY

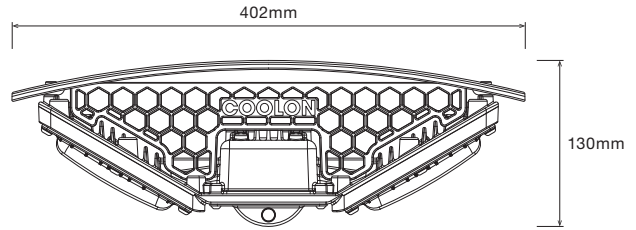
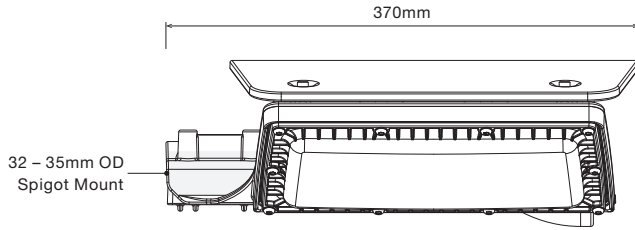
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### 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.

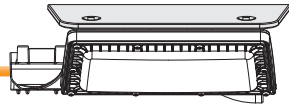
## DIMENSIONS



## WIRING CONFIGURATION

ExDLK Luminaire - MP  
Grey Hood

230VAC MAINS IN



## TURTLE FRIENDLY OPTION



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

## TECHNICAL SPECIFICATIONS

<b>Product</b>	ExDLK LED Conveyor / Area Light
<b>Model</b>	ExDLK
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	3,632 – 6,612 lm
CCT	CWT / NWT / VWT / AMB / GRN
CRI	>70 excluding amber
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	62W Typical
Nominal Voltage	230VAC
Voltage Range	90 – 305VAC, 127 – 431VDC
Cable Type	Orange Circular 2.5 mm <sup>2</sup> 3 Core
Cable Diameter	10 – 12mm
Cable Length	3m
Frequency Range	47 – 63Hz
Power Factor	>0.95 / 230VAC
Leakage Current	<0.75mA / 277VAC
<b>Environmental</b>	
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	U-Bolt Spigot Mount OD 32 – 35mm

<b>Sail Area</b>	
Horizontal Orientation	0.048m <sup>2</sup>
<b>Compliance (Safety Standards)</b>	
AS/NZS60598.1	Luminaires General Requirements and Tests
AS/NZS 60598.2.1	Luminaires Particular requirements Fixed general purpose luminaires
IEC 60079-0:2017 Edition: 7.0	Explosive atmospheres Part 0: General requirements
IEC 60079-31:2022 Edition 3.0	Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"
<b>Compliance (EMC)</b>	
AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
<b>Explosion Protection</b>	
Dust	
Certificate Number	IEEx ExTC 23.0006X
Protection	Ex tb IIIC T65°C Db
<b>Weight/Packaging</b>	
Luminaire Weight	5.25kg
Packaging Dimensions	460 x 440 x 180mm
Packaged Weight	6.6kg
<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

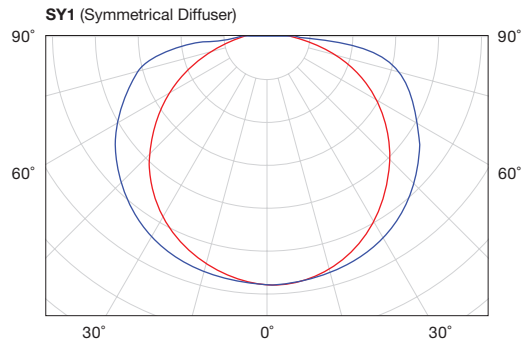
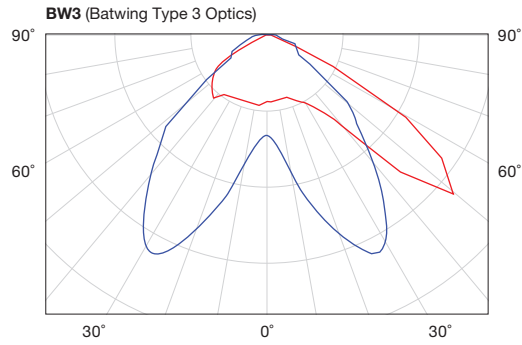
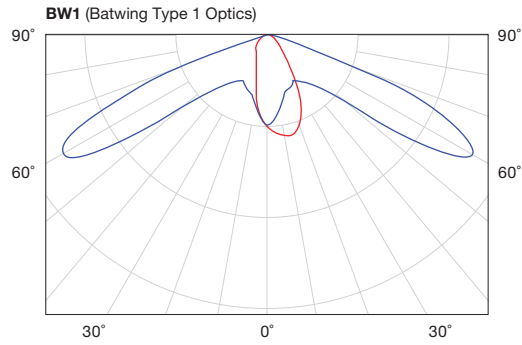
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior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

## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## OPTICAL DISTRIBUTION

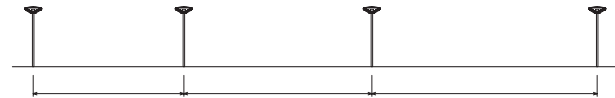


## SPACINGS

### CWT-BW1 Optics Model

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

\*Drawing not to scale

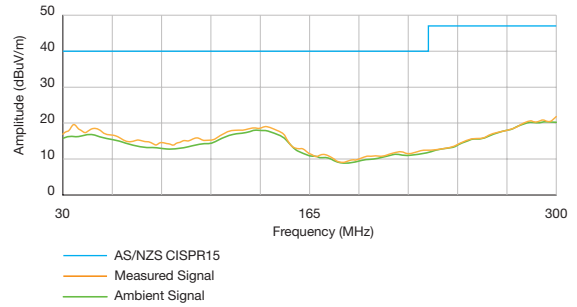


Spacing: 8 meters  
Ave = 171 lux  
Min = 97 lux  
Ave/Min = 0.5

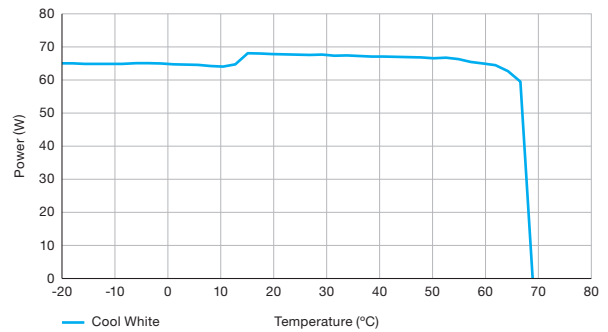
Spacing: 10 meters  
Ave = 120 lux  
Min = 75 lux  
Ave/Min = 0.6

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

## MINIMAL RADIATED EMI



## AMBIENT TEMPERATURE VS POWER



## ORDERING EXAMPLE

**ExDLK - CWT - SY1 - MP**

PRODUCT                      COLOUR TEMPERATURE                      OPTICS                      SUPPLY OPTION

PRODUCT	COLOUR TEMPERATURE		OPTICS		SUPPLY OPTION	
ExDLK	CWT	Cool White	BW1	Batwing Type 1	MP	Mains Powered
	WWT	Warm White	BW3	Batwing Type 3		
	AMB	Amber	SY1	Symmetrical / Diffuser		
	GRN	Green				