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
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

Solid body design

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.

COOL SURFACE TEMPERATURE

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.

NO FLICKERING

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.

LOW SUSCEPTIBILITY TO VIBRATION

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.

3 YEARS FACTORY WARRANTY

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.

INSTANT ON/OFF

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.

HIGH IP RATING - IP66

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.

LONG USEFUL OPERATING LIFE

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.

PROUDLY MADE IN AUSTRALIA
WIRING CONFIGURATION

**DLK Luminaire - MP**
Grey Hood and Guard

230VAC MAINS IN

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

24VDC IN

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

230VAC MAINS IN

Cable not supplied

Emergency Power Pack
EMP-724-035AL

DIMENSIONS

**DLK Luminare**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>MP (MP)</th>
<th>ELV (ELV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>370mm</td>
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<tr>
<td>Height</td>
<td>130mm</td>
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<tr>
<td>Depth</td>
<td>402mm</td>
<td>102.4mm</td>
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</table>

**Emergency Power Pack (where applicable)**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>MP (MP)</th>
<th>ELV (ELV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>385mm</td>
<td>356mm</td>
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<tr>
<td>Height</td>
<td>280mm</td>
<td>130mm</td>
</tr>
<tr>
<td>Depth</td>
<td>160mm</td>
<td>130mm</td>
</tr>
</tbody>
</table>

**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
- CCT: CWT / WW1 / AMB / GRN
- CRI: >70 excluding amber

**Electrical Characteristics (Luminaire)**
- Power Consumption: 66W Typical
- Nominal Voltage: 230VAC
- Voltage Range: 90–305VAC, 127–431VDC
- Cable Type: Orange Circular 2.5 mm² 3 Core
- UL2095, 16 AWG x 2C Braid PVC, UV Resistant
- Cable Diameter: 10 – 12mm
- Cable Length: 3m
- Frequency Range: 47 – 63Hz
- Power Factor: >0.95 / 230VAC
- Leakage Current: <0.75mA / 277VAC

**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**
- Luminare Weight: 4.95kg with Hood
- Packaging Dimensions (DLK): 480 x 440 x 180mm
- Packaged Weight (DLK): 6.3kg (Standard)
- Packaging Dimensions (EMP): 400 x 280 x 180mm
- Packaged Weight (EMP): 10.75kg

<table>
<thead>
<tr>
<th>Warranty</th>
</tr>
</thead>
</table>
| Warranty | 3 years warranty as standard
| Warranty | 5 years extended warranty optional

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.
<table>
<thead>
<tr>
<th>KIT</th>
<th>UNIT SUPPLIED</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIT1</td>
<td>DLK - &quot;-&quot; - &quot;-&quot; - &quot;-&quot; - EML</td>
<td>DLK Luminaire for Emergency Pack</td>
</tr>
<tr>
<td></td>
<td>EMP-724-036AL</td>
<td>Emergency Pack Aluminium Enclosure</td>
</tr>
<tr>
<td>KIT2</td>
<td>DLK - &quot;-&quot; - &quot;-&quot; - &quot;-&quot; - EML</td>
<td>DLK Luminaire for Emergency Pack</td>
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<td>EMP-724-080SS</td>
<td>Emergency Pack Stainless Steel Enclosure</td>
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### DLK - NLS - CWT - BW3 - MP

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>TYPE</th>
<th>COLOUR TEMP</th>
<th>OPTICS</th>
<th>SUPPLY OPTION</th>
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<tbody>
<tr>
<td>DLK</td>
<td>NLS</td>
<td>No Day Light Sensor</td>
<td>CWT - Cool White</td>
<td>MP - Mains Powered</td>
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<tr>
<td></td>
<td></td>
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<td>BW1 - Batwing Type 1</td>
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<td></td>
<td></td>
<td></td>
<td>SY1 - Symmetrical Diffuser</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>GRL - Green</td>
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<td></td>
<td></td>
<td></td>
<td>JRM - Amber</td>
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</tr>
<tr>
<td></td>
<td>WMS</td>
<td>WMS - With Day Light Sensor</td>
<td>WWT - Warm White</td>
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</tr>
<tr>
<td></td>
<td>AMB</td>
<td>AMB - Amber</td>
<td>SY1 - Symmetrical Diffuser</td>
<td></td>
</tr>
<tr>
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<td>SY1 - Symmetrical Diffuser</td>
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<tr>
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<td>EML</td>
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<td>AMB</td>
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<td>SY1</td>
<td>SY1 - SY1</td>
<td>SY1 - Symmetrical Diffuser</td>
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</tr>
</tbody>
</table>

1. If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied
2. If SUPPLY OPTION "EM" is specified without kit specification, KIT1 will be supplied

### AMBIENT TEMPERATURE VS POWER

- Cool White
- Neutral White
- Warm White

<table>
<thead>
<tr>
<th>AMBIENT TEMPERATURE VS POWER</th>
<th>MINIMAL RADIATED EMI</th>
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</thead>
<tbody>
<tr>
<td>Cool White</td>
<td>Minimal Radiated EMI</td>
</tr>
<tr>
<td>Neutral White</td>
<td>Minimal Radiated EMI</td>
</tr>
<tr>
<td>Warm White</td>
<td>Minimal Radiated EMI</td>
</tr>
</tbody>
</table>

### SPACINGS

- CWT-BW1 Optics Model
  - Mounting Height: 2.7m
  - Spigot Length: 0.2m

### 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)

### ORDERING EXAMPLE

**DLK - NLS - CWT - BW3 - MP**

1. If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied
2. If SUPPLY OPTION "EM" is specified without kit specification, KIT1 will be supplied

### COLOUR TEMPERATURES

- AMBER: 1800K
- WARM WHITE: 3000K – 3250K
- NEUTRAL WHITE: 3250K – 3250K
- COOL WHITE: ≥ 4250K

All colour temperatures are indicative. Some variation can occur.