High performance, versatile, retrofit compatible bulkhead light

The Bulkhead is a high performance and versatile light that has been carefully engineered with feedback from mining maintenance crews to ensure easy installation of a robust and virtually indestructible luminaire.

Designed for use in:
- Exit Routes
- Platforms
- Walkways
- Stairwells
- Substation
- Tunnels
- Conveyors

Designed & Manufactured in Australia
Designed with the installer in mind

Multiple entry points, easily-accessible terminal block, and removable body. All these aspects make installation a breeze. “Straight off, straight on!”

Universal mount design

Designed with a universal mount to retrofit the hole patterns of most common bulkhead lights on the market, the Coolon Bulkhead is easy and quick to install.

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.

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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.
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product</th>
<th>Bulkhead Industrial LED</th>
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<tbody>
<tr>
<td><strong>Model</strong></td>
<td>BH, EMBH</td>
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#### Optical Characteristics
- **Luminous Flux (Photometered)**: 4,236 lm, 3,160 lm (MP Mode)
- **CCT**: CWT / WW1 / AMO
- **CRI**: >70 excluding amber

#### Electrical Characteristics (Luminaire)
- **Power Consumption**: 35W, 42W
- **Nominal Voltage**: 230VAC, 230VAC
- **Voltage Range**: 180 – 440VAC, 90 – 277VAC
- **Frequency Range**: 47 – 63Hz, 47 – 63Hz
- **Power Factor**: ≥0.98 / 230VAC, ≥0.95 / 230VAC
- **Leakage Current**: <0.75mA / 480VAC, <0.75mA / 277VAC

#### Environmental
- **IP Rating**: IP66
- **Impact Rating**: IK09
- **Salt Spray Tested**: Yes
- **Operating Temp. Range**: -20°C to +50°C
- **Thermal Management Type**: Active/Continuous
- **Expected Lifespan**: 50,000 Hours to 70% Brightness
- **Material Composition (Body)**: ADC12 Aluminium Alloy
- **Material Composition (Cover)**: Polycarbonate
- **Cable Entry Options**: 2x M20 + 2x M25

#### Weight/Packaging
- **Luminaire Weight**: 5.6kg, 6.8kg
- **Packaged Weight**: 6.1kg, 7.3kg

#### Compliance (Safety Standards)
- AS/NZS60598.1
- AS/NZS 60598.2.1

#### Compliance (EMC)
- AS/NZS CISPR15

#### 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.
ORDERING EXAMPLE

BH - CWT - SY1 - MP

PRODUCT | COLOUR TEMP | OPTICS | SUPPLY OPTION
---------|-------------|--------|-----------------
BH        |             |        | MP
EMBH      |             |        | Mains Powered
AMB       |             |        | Mains Powered

CUSTOM UNITS ORDERING EXAMPLE

CST - BH - CWT - SY1 - MP - WMG

PRODUCT | COLOUR TEMP | OPTICS | SUPPLY OPTION | ACCESSORY
---------|-------------|--------|---------------|-----------------
CST-BH   |             |        | MP            | WMG
BH        |             |        | Mains Powered |
EMBH      |             |        | Mains Powered |
AMB       |             |        | Mains Powered |
WWT       |             |        |               |
WMG       |             |        |               |

CST - BH - CWT - SY1 - MP - SHIELD

PRODUCT | COLOUR TEMP | OPTICS | SUPPLY OPTION | ACCESSORY
---------|-------------|--------|---------------|-----------------
CST-BH   |             |        | MP            | SHIELD
BH        |             |        | Mains Powered |
EMBH      |             |        | Mains Powered |
AMB       |             |        | Mains Powered |
WWT       |             |        |               |
SHIELD    |             |        |               |

EMERGENCY BH (EMBH)

The EMBH utilises a solid state integral emergency module. The emergency power is provided by safe LiFePO4 cells with a host of intelligent management circuitry. The EMBH performs constant operational readiness tests, ensuring reliable emergency lighting will be available when needed. The onboard processor will notify the user should the unit ever need attention allowing operators to better utilise their time.

With a balance between performance, intelligence and reliability, the EMBH is the ultimate industrial integral EM luminaire.