The BRN LED Light is the most indestructible batten luminaire available in the market.

Designed specifically for the harsh conditions of the mining industry, the BRN is ready to withstand any hazards present on a site. This robust fitting features a scratch-proof series 6000 powder-coated aluminium body, a polyurethane encapsulation technology, complete input surge protection and high ratings of IP66 and IK09. Severe impacts, water/dust penetration, hot temperatures, and insects – nothing will interrupt the reliable performance of the BRN.

Providing an exceptional power of 70W at 230VAC input voltage, the BRN offers uninterrupted high-quality light, efficient energy consumption, high Colour Rendering Index and no stroboscopic effect.

The BRN doesn’t simply live up the Coolon LED batten luminaire heritage– it exceeds it.

Designed for use in:
- Workshops
- Switchboard / Switchroom
- Pump Rooms
- Carparks
- Walkways
- Stairwells
High lumen output

Providing double the power of an average LED batten, the BRN offers high lumen output, energy efficiency and no stroboscopic effect.

Built to last

The BRN is specifically designed to withstand harsh conditions of an industrial site. Equipped with a powder-coated aluminium body, input surge protection and IP66 rating, the expected lifespan is 50,000 hours at 75% brightness.

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.

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.

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

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 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.

DESIGNED AND BUILT FOR AUSTRALIAN CONDITIONS

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>BRN Batten Light</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>BRN</td>
</tr>
</tbody>
</table>

### Optical Characteristics

- Luminous Flux (Photometered): 8,567 lm
- CCT: NWT
- CRI: >70

### Electrical Characteristics (Luminaire)

- **Power Consumption**: 70W @230VAC
- **Nominal Voltage**: 230VAC
- **Voltage Range**: 90 – 305VAC / 127 – 250VDC
- **Power Factor (PF)**: >0.9 @ 120 – 240VAC, 50 – 60Hz
- **Input Surge Protection**: 4kV line-line, 6kV line-earth
- **Inrush Current (I<sub>2t</sub>)**: 1.026 A/pk @ 220VAC, 25°C cold start
- **Total Harmonic Distortion (THD)**: 10% @ 120-240VAC, 50-60Hz
- **Leakage Current**: 0.70mA @ 240VAC, 60Hz

### Cable Characteristics

- **Cable Type**: Standard 3 core flex with molded 3 pin AU plug
- **Cable Length**: 1200mm
- **Cable Diameter**: 7.5mm

### Environmental

- **IP Rating**: IP66
- **Impact Rating**: IK09
- **Operating Temp. Range**: -20 to +50°C
- **Expected Lifespan**: 50,000 Hours to 70% Brightness
- **Material Composition (Body)**: AL 6000 Series, Polyester Powder Coated
- **Material Composition (Cover)**: PC
- **Material Composition (Bracket)**: Stainless Steel
- **Mounting / Bracket Type**: Surface Mount / Hook Mount
- **Warranty**: 3 years warranty as standard, 5 years extended warranty optional

### DIMENSIONS

#### MOUNTING BRACKET

- **Width**: 73mm
- **Depth**: 13mm
- **Height**: 79mm
- **Recommended minimum distance from endcap (both sides)**: 70mm

#### Cable Characteristics

- **Recommended minimum distance from endcap (both sides)**: 70mm

*Note: At 220Vac input, 25°C cold start, duration=236μs, 10%/pk-10%/pk. See Inrush Current Waveform for the details.*

*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.*

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*Lanyard/chain not provided by Coolon*
**COLOUR TEMPERATURES**

<table>
<thead>
<tr>
<th>COLOUR TEMPERATURE</th>
<th>PRODUCT TYPE</th>
<th>OPTICS</th>
<th>SUPPLY OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRN 70 W</td>
<td>Neutral White</td>
<td>SY1</td>
<td>Mains Powered</td>
</tr>
</tbody>
</table>

All colour temperatures are indicative. Some variation can occur.

**ILLUMINANCE AT DISTANCE**

<table>
<thead>
<tr>
<th>Distance</th>
<th>Illuminance (Lux)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2m</td>
<td>733</td>
</tr>
<tr>
<td>3m</td>
<td>325</td>
</tr>
<tr>
<td>4m</td>
<td>183</td>
</tr>
<tr>
<td>5m</td>
<td>117</td>
</tr>
<tr>
<td>6m</td>
<td>82</td>
</tr>
</tbody>
</table>

**INRUSH CURRENT WAVEFORM**

\[ \Delta 200mA \at 5.8A \]
\[ \Delta 236\mu s \at 248\mu s \]

**ORDERING EXAMPLE**

<table>
<thead>
<tr>
<th>PRODUCT</th>
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All documentation is subject to change without notice. Refer to our website for the latest information.