## Vigilant® LED Bulkhead
### 100-277 VAC Model

**Mechanical Information:**

<table>
<thead>
<tr>
<th>Fixture weights:</th>
<th>6.3 kg (13.8 lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery backup models:</td>
<td>7.7 kg (17 lb)</td>
</tr>
<tr>
<td><strong>Shipping weights:</strong></td>
<td></td>
</tr>
<tr>
<td>Standard models:</td>
<td>7 kg (15.4 lb)</td>
</tr>
<tr>
<td>Battery backup models:</td>
<td>8.4 kg (18.5 lb)</td>
</tr>
</tbody>
</table>

**Cable entry:**

- (2) M20 - optional
- (4) M20

**Materials:**

- **Housing:** A360 Die-cast aluminium
- **Finish:** Superior dual coat finish  
  - Sealed polyester topcoat  
  - Epoxy primer
- **Lens:** Polycarbonate clear  
  - Polycarbonate diffused (optional)
- **Hardware:** 316 Stainless Steel

**Electrical Specifications:**

- **Operating voltage:**
  - Standard models: 100-277 VAC / 120-250 VDC
  - Battery backup models: 230/240 VAC
- **Operating temperature:**
  - Standard models: -40°C to +65°C (-40°F to +149°F)
  - Battery backup models: -20°C to +55°C (-4°F to +131°F)
- **Surge protection:**
  - Tested to IEC 61000-4-5  
  - 6kV/3kA, 1.2/50, 8/20us  
  - Combination Wave  
  - Line-line and line-ground
- **THD:** < 18%
- **Power factor:** > 0.9
- **Dimming:**
  - DALI 1.0 and 2.0  
  - 0-10 VDC continuous dimming to <10%

**Battery Backup Models: (integral battery)**

- **Battery duration** (circular optic, clear lens):
  - 6.5k lumen outputs:
    - 180 mins ~ 900 lm
    - 90 mins ~ 1100 lm
    - 60 mins ~ 1140 lm
  - 3k lumen outputs:
    - 180 mins ~ 800 lm
    - 90 mins ~ 1100 lm
    - 60 mins ~ 1140 lm

- **Expected battery life:** 4 years

**Photometric Information:**

- **Lumen output**: 3,000 & 6,500 lm (white light)
- **CRI**: > 80 (white light)
- **CCT**: 5000K (cool white)  
  - 4000K (neutral white)

  All values typical unless otherwise stated (tolerance +/- 10%)
  
  * @ 25°C ambient

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**Certifications & Ratings**

- 10 year warranty
- CE
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F) ambient

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**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.
## Ordering Information

### Vigilant® LED Bulkhead

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Fixture Lumens</th>
<th>Wattage</th>
<th>lm/W</th>
<th>Voltage</th>
<th>CCT</th>
<th>Lens</th>
<th>Beam Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Models with Flush Bracket</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BHE-4BC2-3NFN-VGN</td>
<td>3,200</td>
<td>22</td>
<td>149</td>
<td>100-277 VAC / 120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Polycarbonate</td>
<td>Circular</td>
</tr>
<tr>
<td>BHE-4BC2-6NFN-VGN</td>
<td>6,700</td>
<td>45</td>
<td>149</td>
<td>100-277 VAC / 120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Polycarbonate</td>
<td>Circular</td>
</tr>
<tr>
<td>BHE-4UC2-3NFN-VGN</td>
<td>3,100</td>
<td>22</td>
<td>144</td>
<td>100-277 VAC / 120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Polycarbonate</td>
<td>Ultra-Wide (Type 1)</td>
</tr>
<tr>
<td>BHE-4UC2-6NFN-VGN</td>
<td>6,400</td>
<td>45</td>
<td>142</td>
<td>100-277 VAC / 120-250 VDC</td>
<td>5000K (cool white)</td>
<td>Clear Polycarbonate</td>
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</tr>
<tr>
<td><strong>Battery Backup Models with Flush Bracket</strong></td>
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<td>BHE-4BCG-3NFN-VGG</td>
<td>3,200</td>
<td>25</td>
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<td>230/240 VAC</td>
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<tr>
<td>BHE-4BCG-6NFN-VGG</td>
<td>6,700</td>
<td>48</td>
<td>140</td>
<td>230/240 VAC</td>
<td>5000K (cool white)</td>
<td>Clear Polycarbonate</td>
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</tr>
<tr>
<td>BHE-4UCG-3NFN-VGG</td>
<td>3,100</td>
<td>25</td>
<td>124</td>
<td>230/240 VAC</td>
<td>5000K (cool white)</td>
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All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
All models shown in table are 5000K (cool white) CCT. For 4000K (neutral white) CCT please contact your local representative for more information.
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Vigilant® LED Bulkhead
Pole Mount Model

Mechanical Information:
- Fixture weights:
  - Standard models: 8.1 kg (17.9 lb)
  - Battery backup models: 9.1 kg (19.7 lb)
- Shipping weights:
  - Standard models: 8.8 kg (19.4 lb)
  - Battery backup models: 9.7 kg (21.4 lb)
- Cable entry: (1) M25
- Spigot entry size: 35mm ID

Materials:
- Housing: A360 Die-cast aluminium
- Finish: Superior dual coat finish
  - Sealed polyester topcoat
  - Epoxy primer
- Lens: Polycarbonate clear
  - Polycarbonate diffused (optional)
- Hardware: 316 Stainless Steel

Electrical Specifications:
- Operating voltage:
  - Standard models: 100-277 VAC / 120-250 VDC
  - Battery backup models: 230/240 VAC
- Operating temperature:
  - Standard models: -40°C to +65°C (-40°F to +149°F)
  - Battery backup models: -20°C to +55°C (-4°F to +131°F)
- Surge protection: Tested to IEC 61000-4-5
  - 6kV/3kA, 1.2/50, 8/20us Combination Wave
  - Line-line and line-ground
- THD: < 18%
- Power factor: > 0.9
- Dimming: DALI 1.0 and 2.0
  - 0-10 VDC continuous dimming to <10%

Battery Backup Models: (integral battery)
- Battery duration* (circular optic, clear lens):
  - 6.5k lumen outputs: 180 mins ~ 900 lm
    - 90 mins ~ 1100 lm
    - 60 mins ~ 1140 lm
  - 3k lumen outputs: 180 mins ~ 800 lm
    - 90 mins ~ 1100 lm
    - 60 mins ~ 1140 lm
- Expected battery life: 4 years

Photometric Information:
- Lumen output*:
  - 3,000 & 6,500 lm (white light)
- CRI: > 80 (white light)
- CCT: 5000K (cool white)
  - 4000K (neutral white)
- All values typical unless otherwise stated (tolerance +/- 10%)
  * @ 25°C ambient

Certifications & Ratings
- 10 year warranty
- CE
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F) ambient

Dimensions in mm (inches)
## Ordering Information

### Vigilant® LED Bulkhead - Pole Mount Model

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<thead>
<tr>
<th>Part Number</th>
<th>Fixture Lumens</th>
<th>Wattage</th>
<th>Im/W</th>
<th>Voltage</th>
<th>CCT</th>
<th>Lens</th>
<th>Beam Distribution</th>
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<tbody>
<tr>
<td><strong>Pole Mount Models</strong></td>
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<td>142</td>
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<td>5000K (cool white)</td>
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<td><strong>Pole Mount Battery Backup Models</strong></td>
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Part numbers listed in bold are typically available in stock.
All models shown in table are 5000K (cool white) CCT. For 4000K (neutral white) CCT please contact your local representative for more information.
Accessories

Please consult local Dialight sales office for availability.

BH-BRKT-SS-ADJ
- 316 stainless steel adjustable bracket kit

BH-STMB-05-10-HD
- Aluminium stanchion mount, 5° up-tilt - 50mm pole

BH-BRKT-A-KIT
- 316 stainless steel wall/ceiling flush mount bracket kit

BH-STMB-25-10-HD
- Aluminium stanchion mount, 25° up-tilt - 50mm pole

BH-BRKT-F-KIT
- 316 stainless steel wall/ceiling flush mount bracket kit

BH-STMB-45-10-HD
- Aluminium stanchion mount, 45° up-tilt - 50mm pole

BH-BRKT-LG-PF
- Aluminium pipe mount bracket kit - 50mm

HZG-SPIGOT-34
- Aluminium wall mount spigot plate - 34mm

H6XCAB72
- 72” stainless steel safety rope
Beam Distribution

Ultra-Wide Walkway (Type 1) - Clear

Ultra-Wide Walkway (Type 1) - Diffused

Circular - Clear

Circular - Diffused
Thermal Roll-Off

Inrush Current / Circuit Breakers

<table>
<thead>
<tr>
<th>Output</th>
<th>In rush (A) current @ input voltage</th>
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<tbody>
<tr>
<td></td>
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<td>6,500</td>
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<td>3,000</td>
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</table>

<table>
<thead>
<tr>
<th>Output</th>
<th>GND Leakage (mA) input voltage</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>100 VAC</td>
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<td>6,500</td>
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<tr>
<td>3,000</td>
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## Lumen Maintenance Factor

### Vigilant Bulkhead 6,500lm

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<th>Ambient Temperature</th>
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<td>92%</td>
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<td>55°C</td>
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Based on 9,000 hour LM80 data

### Vigilant Bulkhead 3,000lm

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</thead>
<tbody>
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</tbody>
</table>

Based on 9,000 hour LM80 data

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www.dialight.com
Dimming Curves

**DALI Dimming**

6,500lm

![Graph showing DALI dimming curve for 6,500lm.](image)

3,000lm

![Graph showing DALI dimming curve for 3,000lm.](image)

**0-10V Dimming**

6,500lm

![Graph showing 0-10V dimming curve for 6,500lm.](image)

3,000lm

![Graph showing 0-10V dimming curve for 3,000lm.](image)
WARNING / DISCLAIMERS:

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