Mechanical Information:

120-277 VAC model
complete fixture weight: 28.6 kg (63.1 lbs)
Wiring box: 3.2 kg (7.1 lbs) [mount first]
Light engine (base): 25.4 kg (56.0 lbs) [mount last]
Shipping weight: 37.5 kg (82.6 lbs)

415 VAC model
complete fixture weight: 35.8 kg (79 lbs)
Wiring box: 13.4 kg (29 lbs) [mount first]
Light engine (base): 25.4 kg (56.0 lbs) [mount last]
Shipping weight: 44.7 kg (98.6 lbs)

Note that the wire box is installed separately from the housing. This allows single installer for fixtures.

Box dimensions (cm): Length - 64, Width - 56.5, Height - 72.7
Mounting: Hook mount
Cable entry: (4) M25 - sides
Terminals: 5 position, 0.5-4 mm²

Materials:

Housing: Die cast aluminium alloy A360
Hardware: 18-8 stainless steel
Hook: 304 stainless steel
Safety shackle: 304 stainless steel
Safety rope: Optional 316 stainless steel safety rope, 304 stainless steel crimp

Gaskets:

Light engine: Santoprene
Wiring box: Silicone
Power supply (ends): EPDM
Lens: Tempered glass, acrylic or UV stabilized polycarbonate
Fixture finish: Superior dual coat finish - Sealed polyester topcoat - Chemical-resistant epoxy primer

Electrical Specifications:

Operating voltage: 120-277 VAC, 50/60 Hz
415 VAC
Operating temperature: -40°C to +65°C (-40°F to +149°F)
Total system power consumption: See table
EMC: EN 62493: 2015, EN 61547: 2009,
EN 60598:2008
EN 61000-3-2: 2015,
EN 61000-3-3: 2013
Transient protection: 6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground
THD: EN55015:2013 < 20%
Harmonics: IEC 61000-3-2, Class C
Power factor: > 0.9

Variable Dimming:

Variable dimming control: 0-10 VDC
Dimming range: 10 VDC = 100% light output
0 VDC = 5% light output

Photometric Information:

CRI: 80
CCT: 5000K (cool white)
4000K (neutral white)

All values typical unless otherwise stated (tolerance +/- 10%)
## Ordering Information

### Vigilant® LED High Bay - High Output - Standard Models

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Fixture Lumen</th>
<th>Watt</th>
<th>lm/W</th>
<th>IP Rating</th>
<th>Voltage</th>
<th>CCT</th>
<th>Lens</th>
<th>Beam Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>H6E-7MC2-RDHN-NGN</td>
<td>72,000</td>
<td>484</td>
<td>149</td>
<td>IP66/67</td>
<td>120-277 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered glass</td>
<td>Medium</td>
</tr>
<tr>
<td>H6E-7NC2-RDHN-NGN</td>
<td>72,000</td>
<td>484</td>
<td>149</td>
<td>IP66/67</td>
<td>120-277 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered glass</td>
<td>Narrow</td>
</tr>
<tr>
<td>H6E-7MC2-NHIN-NGN</td>
<td>60,000</td>
<td>414</td>
<td>145</td>
<td>IP66/67</td>
<td>120-277 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered glass</td>
<td>Medium</td>
</tr>
<tr>
<td>H6E-7NC2-NHIN-NGN</td>
<td>60,000</td>
<td>414</td>
<td>145</td>
<td>IP66/67</td>
<td>120-277 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered glass</td>
<td>Narrow</td>
</tr>
<tr>
<td>H6E-7MC2-KHIN-NGN</td>
<td>45,000</td>
<td>309</td>
<td>146</td>
<td>IP66/67</td>
<td>120-277 VAC</td>
<td>5000K (cool white)</td>
<td>Tempered glass</td>
<td>Medium</td>
</tr>
<tr>
<td>H6E-7NC2-KHIN-NGN</td>
<td>45,000</td>
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<td>Narrow</td>
</tr>
</tbody>
</table>

All values typical unless otherwise stated (tolerance +/- 10%). All models shown in table are 5000K (cool white) CCT. For 4000K (neutral white) CCT replace the 6th character with an N. Example: H6E-7MC2-RDHN-NGN becomes H6E-7MC2-RDNH-NGN.

45,000 lumen output fixture available with factory installed occupancy sensor for mounting heights of up to 12m. Consult factory for more information.

### Beam Distribution

- **Medium**
- **Narrow**
In Rush Current / Circuit Breakers

<table>
<thead>
<tr>
<th>Model</th>
<th>Wattage</th>
<th>In rush current @ input voltage</th>
<th>Time duration of in rush current @ input voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>100 VAC</td>
<td>230 VAC</td>
</tr>
<tr>
<td>72,000</td>
<td>484</td>
<td>7.7A</td>
<td>14.8A</td>
</tr>
<tr>
<td>60,000</td>
<td>414</td>
<td>7.7A</td>
<td>14.8A</td>
</tr>
<tr>
<td>42,000</td>
<td>309</td>
<td>7.7A</td>
<td>14.8A</td>
</tr>
</tbody>
</table>

Lumen Maintenance Factor

<table>
<thead>
<tr>
<th>Ambient (°C)</th>
<th>High Bay High Output (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°</td>
<td>0</td>
</tr>
<tr>
<td>25°</td>
<td>100%</td>
</tr>
<tr>
<td>30°</td>
<td>100%</td>
</tr>
<tr>
<td>35°</td>
<td>100%</td>
</tr>
<tr>
<td>40°</td>
<td>99%</td>
</tr>
<tr>
<td>45°</td>
<td>98%</td>
</tr>
<tr>
<td>50°</td>
<td>98%</td>
</tr>
<tr>
<td>55°</td>
<td>98%</td>
</tr>
<tr>
<td>60°</td>
<td>97%</td>
</tr>
<tr>
<td>65°</td>
<td>97%</td>
</tr>
</tbody>
</table>

Measured LED temperature for an ambient temperature range of 25°C to 65°C and calculated lumen maintenance using TM-21 calculator and LED LM80 data.

Occupancy Sensor Details

Coverage Side View

HBXFSIRREMOTE
- Remote for occupancy sensor

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