LED Explosion Proof Fixture

This Explosion Proof series is an LED anti-explosion lighting device connecting ultra-high-power Light Engines coupled with the secondary optics. This series offers ultra-high brightness with the beam patterns for indoor lighting application. It is available in five different color temperatures, various wattages, it can be used both in AC and DC operation either with city power or solar power application. Our product provides innovative and energy-efficient solutions for the designers and end users as well. Empowered by our structural LED technology, we can operate at ultra-high power with high luminous flux, low junction temperature (Tj) and have outstanding performance with long predictable reliable life.

Technology

Our Explosion Proof series is based on our patented and unique heat dissipation system - heat pipe. Through the heat pipe technology, the LEDs heat can be effectively pumped away from LED junctions to the ambient. Through the heat pipe technology, we build the 3D (x, y, z) heat dissipation system.
Specification

General Information
- Color Temperature (CCT): 6,500K / 5,000K / 4,000K / 3,000K / 2700K
- Color Rendering Index (CRI): 70 / 80 / 90 / 97
- Beam Angles: 26° / 50° / 80° / 100° / 135°
- Ingress Protection: IP66
- Housing Color: Grey
- Input Voltage: 100VAC-240VAC / 277VAC / 347VAC
- Input Frequency: 50-60 Hz
- Anti-Hazard Classification: Ex nR II T5/T6 (Zone 2)
- Power Factor: > 0.92
- Light Pollution: Full Cutoff
- UGR: < 19
- Median Useful Life: > 75,000 Hours
- Warranty: 5 Years

Performance

<table>
<thead>
<tr>
<th>Wattage</th>
<th>6500K</th>
<th>5000K</th>
<th>4000K</th>
<th>3000K</th>
<th>2700K</th>
</tr>
</thead>
<tbody>
<tr>
<td>80W</td>
<td>11,000</td>
<td>11,000</td>
<td>10,800</td>
<td>10,300</td>
<td>10,000</td>
</tr>
<tr>
<td>120W</td>
<td>16,000</td>
<td>16,000</td>
<td>15,500</td>
<td>14,000</td>
<td>13,500</td>
</tr>
<tr>
<td>150W</td>
<td>21,500</td>
<td>21,500</td>
<td>21,500</td>
<td>21,000</td>
<td>20,000</td>
</tr>
<tr>
<td>240W</td>
<td>32,000</td>
<td>32,000</td>
<td>32,000</td>
<td>31,000</td>
<td>29,500</td>
</tr>
</tbody>
</table>

Operating Conditions
- Operating (Ambient): -30°C ~ 75°C / 90%RH
- Operating (Ambient): -30°C ~ 80°C / 90%RH

Materials
- Housing / Heat Sink: Aluminum
- Bracket: Stainless Steel
- Optics / Diffuser: PC / PMMA

Optionals
- Dimming: 0~10V / PWM / DALI / DMX
- Sensor: PIR / LUX / Photocell
Lighting Distribution

Dimension & Weight

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Diameter (mm)</th>
<th>Height (mm)</th>
<th>Weight (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80W</td>
<td>Ø 350.0</td>
<td>300.0</td>
<td>10.0</td>
</tr>
<tr>
<td>120W</td>
<td>Ø 350.0</td>
<td>300.0</td>
<td>10.5</td>
</tr>
<tr>
<td>150W</td>
<td>Ø 350.0</td>
<td>300.0</td>
<td>11.0</td>
</tr>
<tr>
<td>240W</td>
<td>Ø 350.0</td>
<td>300.0</td>
<td>11.5</td>
</tr>
</tbody>
</table>

Installation

Wall Mount
Port Mount

Suspension

Suspension