Albeo™ LED Luminaire
Hazardous Location High Bay & Low Bay Lighting
AHH1 - Series
The Albeo™ AHH1-Series is a Class I, Division 2, Groups A, B, C, and D rated fixture for hazardous locations with high ambient temperatures and wet applications. Utilizing a sealed, IP66-rated form factor, the Albeo™ AHH1-Series offers customers a rugged design with exceptional performance and high reliability.

**Product Features**

**Applications**
- Designed to meet recommended luminance and illuminance requirements for high bay applications in hazardous atmospheres that contain gases and vapors (acetylene, hydrogen manufactured gases containing more than 30% hydrogen by volume, ethylene, cyclopropane, hexane, butane, propane, acetone, benzene, & gasoline) that are not normally hazardous.
- T4A rating at 50-65C; T5 rating at 40-50C.

**Housing**
- Die-cast aluminum housing.
- Design accommodates a single or double fixture with 1 or 2 LED modules per fixture.

**LED & Optical Assembly**
- AHH1-series lens system enable LEDs to provide optimized illumination for open floor and racked aisles with photometric distributions of 55, 90 and 120 degrees.
- Utilizes high brightness LEDs, 70 CRI at 4000K & 5000K typical.
- LM-79, LM 80 tests and reports are performed in accordance to IESNA standards.
- Choice of low-Iron tempered glass or polycarbonate lens for sealed optical cavity. Both lenses are IK08 impact rated.

**Ratings**

**Standard:**
- UL 844 Class I, Division 2, Groups A, B, C, D.
- UL 1598 Suitable for Wet Locations.
- UL 8750 LED equipment in Lighting Products.
- Temperature Rating: -30C up to +65C.
- Projected L70 ≥ 100,000 Life Hours per IES TM-21.
- RoHS.
- UL 1598A Inside Drip Proof-Type*
- 3,000 hours of ASTM B117 Salt Spray*
- NEMA 4X Enclosure Type*
- * Choose Finish option “R = Corrosion Resistant”

**Mounting**
- ¾” NPT pendant mount.
- Cord length options available.

**Finish**
- Standard Finish: polyester powder coat.
- Corrosion Resistant Finish: polyester powder coat with passivation layer.
- Standard color: White.

**Controls**
- 0-10V Dimming.

**Electrical**
- 120-277 volt and 347/480 volt available.
- System power factor is >90%* and THD <20%*.
- EMI: Title 47 CFR 15 Class A.
- Internal Surge Protection
  - For 120-277VAC per IEEE/ANSI C62.41.-1991, 3kV/3kA Location Category B3.
  - For 347/480VAC per IEEE/ANSI C62.41.-1991, 6kV/3kA Location Category B3.
- * System power factor and THD is tested and specified at 120V input and maximum load conditions.

**Warranty**
- 5-year limited system warranty standard.

---

### Industry Awards

Accepted for inclusion in the 2014 IES Progress Report. Sponsored by the Illuminating Engineering Society.
### Hazardous Number Logic
Hazardous Location High Bay & Low Bay Lighting (AHH1)

#### Ordering Number Logic

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>VOLTAGE (IU)</th>
<th>CONFIGURATION</th>
<th>LUMEN OUTPUT</th>
<th>LED COLOR TEMP</th>
<th>OPTICS BEAM</th>
<th>MOUNTING</th>
<th>PLUG</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = Albeo</td>
<td>0 = 120V-277V, S = 480V, D = 347V</td>
<td>1 = Single Fixture (1 LED Module)</td>
<td>70 Plus CRI, 47 = 4000K, 57 = 5000K</td>
<td>1 = 120° Glass</td>
<td>N = None</td>
<td>Pendant</td>
<td>A = 6ft 18ga cord</td>
<td>W = White R = Corrosion Resistant</td>
</tr>
<tr>
<td>H = Hazardous</td>
<td></td>
<td>2 = Single Fixture (2 LED Module)</td>
<td>N = 0-10V Dimming*</td>
<td>B = 55° PC*</td>
<td></td>
<td>A = 12ft 18ga cord</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H = High Bay</td>
<td></td>
<td>4 = Double Fixture (2 LED Module)</td>
<td>N = None</td>
<td>C = 90° PC*</td>
<td></td>
<td>C = 20ft 18ga cord</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 = Generation</td>
<td></td>
<td></td>
<td></td>
<td>D = 120° PC Diffused*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Configuration Options

<table>
<thead>
<tr>
<th>CONFIG.</th>
<th>LUMEN OUTPUT</th>
<th>40°C AMBIENT</th>
<th>50°C AMBIENT</th>
<th>60°C AMBIENT</th>
<th>65°C AMBIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T</td>
<td>T5</td>
<td>T5</td>
<td>T4A</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>T5</td>
<td>T4A</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>T5</td>
<td>T5</td>
<td>T4A</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>T5</td>
<td>T5</td>
<td>T4A</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>T</td>
<td>T5</td>
<td>T5</td>
<td>T4A</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>H</td>
<td>T5</td>
<td>T4A</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Notes

- Lumen estimates shown is for 120° (1) optic.
- Polycarbonate lenses are not recommended for outdoor use.
- Maximum temperature range identification number:
  - Maximum Temperature Range Identification Number
  - T1 450 180
  - T2 300 165
  - T2A 280 160
  - T2B 260 135
  - T2C 230 120
  - T2D 215 T6
  - T3 200 T5
  - T3 200 T6

#### Temperature Code - Reference Information
Lens selection by application

The Albeo™ AHH1-series optical reflector system enables LEDs to provide precise illumination where needed. Reflectors are designed for commercial & industrial applications where mounting height, fixture spacing & light levels help determine reflector selection. The following table outlines optics options and suggested application.

<table>
<thead>
<tr>
<th>OPTIC BEAM</th>
<th>MOUNTING HEIGHT</th>
<th>SPACE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>120° (Wide)</td>
<td>Any</td>
<td>Open Floor Plan</td>
</tr>
<tr>
<td>90° (Areal)</td>
<td>Any</td>
<td>Open Floor Plan</td>
</tr>
<tr>
<td>55° (Aisle)</td>
<td>Any</td>
<td>Low or High Bay Racked Aisles</td>
</tr>
<tr>
<td>120° Diffuse Polycarbonate</td>
<td>Any</td>
<td>Open Floor Plan</td>
</tr>
</tbody>
</table>
## Mounting & Accessories

<table>
<thead>
<tr>
<th>MOUNTING OPTIONS</th>
<th>IMAGE</th>
<th>ORDER LOGIC CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pendant Mount</td>
<td><img src="image.png" alt="Image" /></td>
<td>23 = 3/4&quot; NPT Pendant Mount Kit</td>
</tr>
<tr>
<td>Available on all fixture configurations. Attaches to 3/4&quot; NPT threaded conduit (conduit not included).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Consult Sales for latest information. See “Installation Instructions” for mounting details.
Product Dimensions
Heavy Industrial High Bay & Low Bay Lighting (AHH1)

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Max Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Fixture 120-277V</td>
<td>21 lbs. max</td>
</tr>
<tr>
<td>Single Fixture 347/480V</td>
<td>23 lbs. max</td>
</tr>
<tr>
<td>Double Fixture 120-277V</td>
<td>45 lbs. max</td>
</tr>
<tr>
<td>Double Fixture 347/480V</td>
<td>49 lbs. max</td>
</tr>
</tbody>
</table>

www.gelighting.com

GE and the GE Monogram are trademarks of the General Electric Company. All other trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. GE Lighting is a business of the General Electric Company. © 2016 GE.

AL8035 (Rev 08/15/16)