Albeo™ LED Luminaire
LED High Bay Lighting
(ABV2 - Series)

Product Description:
The Albeo™ ABV2 LED luminaire is an exceptional mixture of value and performance. Ideal for high bay and low bay applications in industrial and commercial buildings. Designed to replace 250W-1500W HID and four-to-eight-lamp T5/T8 HIF fixtures with unmatched reliability and quality.

Performance Highlights:
- **Light Output Range:** 9,000 – 36,000 lumens
- **CRI:** 70 & 80 CRI (90CRI Refer to factory for lead-time)
- **CCT:** 3000K, 3500K, 4000K, 5000K
- **Distributions:** 120°, 90°, 55° no lens, diffused & clear lens options
- **Input Voltage:** 120V-277V, 347V, & 480V
- **Efficiency:** Up to 172 LPW
- **Fixture Rated:** L70 @ 100,000 hours minimum
- **Limited Warranty:** 5 Years
- **Temperature Rating:** Temperature Rated at -30°C to +55°C (-22°F to 131° F). *E output temperature rated at -30°C to +40°C (-22°F to +104°F) for 120-277V with a maximum temperature rating reduced by 2° C for 347/480V.
- **Controls & Sensors:** 0-10V standard, Motion & daylight sensor options. Wireless ZigBee Daintree compliant options.

Product Dimensions:

<table>
<thead>
<tr>
<th>Light Output Range</th>
<th>1-Module</th>
<th>2-Module</th>
<th>3-Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,000 – 18,000lm</td>
<td>Max. Weight: 10 lbs.</td>
<td>Max. Weight: 20 lbs.</td>
<td>Max. Weight: 30 lbs.</td>
</tr>
<tr>
<td>18,000 – 36,000lm</td>
<td>13.75 in.</td>
<td>27.30 in.</td>
<td>40.85 in.</td>
</tr>
<tr>
<td>36,000lm High Efficiency</td>
<td>3.46 in.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Certifications:
### Ordering Number Logic

**Industrial High Bay & Low Bay Lighting (ABV2-Series)**

#### Module Details

<table>
<thead>
<tr>
<th>Module #</th>
<th>Output Level</th>
<th>Typical Delivered Luminous</th>
<th>Typical Power</th>
<th>Typical LPW</th>
<th>Maximum Ambient Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 CRI @ 4000K or 5000K CCT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>T</td>
<td>9,100</td>
<td>53</td>
<td>55</td>
<td>172</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>V</td>
<td>12,100</td>
<td>74</td>
<td>72</td>
<td>164</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>E</td>
<td>18,200</td>
<td>121</td>
<td>122</td>
<td>150</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>T</td>
<td>18,300</td>
<td>107</td>
<td>107</td>
<td>171</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>V</td>
<td>26,300</td>
<td>148</td>
<td>151</td>
<td>164</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>E</td>
<td>36,400</td>
<td>243</td>
<td>244</td>
<td>150</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>V</td>
<td>36,400</td>
<td>222</td>
<td>226</td>
<td>156</td>
</tr>
<tr>
<td>80 CRI @ 5000K CCT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>T</td>
<td>8,663</td>
<td>53</td>
<td>55</td>
<td>163</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>V</td>
<td>11,519</td>
<td>74</td>
<td>72</td>
<td>156</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>E</td>
<td>17,326</td>
<td>121</td>
<td>122</td>
<td>143</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>T</td>
<td>17,422</td>
<td>107</td>
<td>107</td>
<td>163</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>V</td>
<td>23,134</td>
<td>148</td>
<td>151</td>
<td>156</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>E</td>
<td>34,653</td>
<td>243</td>
<td>244</td>
<td>143</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>V</td>
<td>34,653</td>
<td>222</td>
<td>226</td>
<td>156</td>
</tr>
</tbody>
</table>

#### Options

- **120° No Lens**
- **55° No Lens**
- **90° No Lens**
- **120° Diffused Lens**
- **55° Diffused Lens**
- **90° Diffused Lens**
- **120° Clear Lens**
- **55° Clear Lens**
- **90° Clear Lens**

### Electrical Specifications

- **VOLTAGE**: 120/277, 208*, 277*, 480*, 247*
- **MAXIMUM AMBIENT TEMPERATURE**: 55°C

### Notes

- 1 module = 120V
- 2 modules = 208V
- 3 modules = 277V
- 4 modules = 480V
- 5 modules = 480V
- D = 347*

*Specify single voltage if plug, sensor, or wireless options needed.

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**Project name**: _________________

**Date**: _________________

**Type**: _________________
## Mounting & Accessories

<table>
<thead>
<tr>
<th>MOUNTING OPTIONS</th>
<th>IMAGE</th>
<th>ORDER LOGIC CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Chain/Cable Mount</strong></td>
<td></td>
<td>ST = Standard</td>
</tr>
<tr>
<td>Available on all fixture configurations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(chain not included). Y-Cable w/hook can be</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ordered as an accessory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rod Mount (optional)</strong></td>
<td></td>
<td>22 = 1/2&quot; Threaded Rod Kit</td>
</tr>
<tr>
<td>Available on all fixture configurations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attaches to 1/2&quot; threaded rod (rod and nuts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>not included).</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em><em>Surface Mount</em> (optional)</em>*</td>
<td></td>
<td>SM = Surface Mount</td>
</tr>
<tr>
<td>Available on all fixture configurations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attaches to structural member in ceiling.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Hardware not included.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Temperature rating reduced by 5°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pendant Mount (optional)</strong></td>
<td></td>
<td>23 = 3/4&quot; Pendant Mount Kit</td>
</tr>
<tr>
<td>Available on all fixture configurations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attaches to 3/4&quot; threaded conduit (conduit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>not included).</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Y-Cable w/hook (optional)</strong></td>
<td></td>
<td>41=Y-Cable-Hook-05ft-Pair</td>
</tr>
<tr>
<td>Use with Standard Mounting Option only.</td>
<td></td>
<td>42=Y-Cable-Hook-10ft-Pair</td>
</tr>
<tr>
<td>Order separately. Price adder per pair.</td>
<td></td>
<td>43=Y-Cable-Hook-15ft-Pair</td>
</tr>
<tr>
<td>5 ft., 10 ft., 15 ft., 20 ft. lengths available.</td>
<td></td>
<td>44=Y-Cable-Hook-20ft-Pair</td>
</tr>
<tr>
<td>Max Load: 200 lbs. per pair</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Remote Handheld Configuration Tool</strong></td>
<td></td>
<td>Part Number: SWI0100</td>
</tr>
<tr>
<td>Order separately. Use with Watt Stopper™</td>
<td></td>
<td></td>
</tr>
<tr>
<td>remote sensors. Available with all 120-277V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>configurations. 347/480V configurations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>available with T and V outputs only.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chain/cable mount is standard and included in price. Price adder for Y-Cable, Rod Mount, and Pendant Mount. Consult Sales for latest information. See "Installation Instructions" for mounting details.
Albeo™ LED Luminaire
LED High Bay Lighting
(ABV2 - Series)

LED & Optical Assembly
CRI: 70 & 80 Standard (90 contact factory for lead-time)
Rated Lumen Depreciation: L70 @ 100,000 hrs
TM-21 Calculation at 25°C:
T & V Outputs L90 @ 129,000 hrs
E Output L90 @ 84,000 hrs
Distribution/Lenses: Open Optic = No Lens standard
55, 90, 120 degrees no lens standard (most efficient)
55, 90, 120 degrees w/clear lens optional
55, 90, 120 degrees w/diffused lens optional

Electrical
Input Voltage: 120-277V, 347V or 480V
Input Frequency: 50/60Hz
System Power Factor (PF): >0.9*
Total Harmonic Distortion (THD): <20%*
LED Driver Type: Class 1, 3kV min. surge protection
EMI: FCC CFR Title 47 Part 15, Class A
* PF and THD may vary with options

Ratings & Evaluations
Operating Temperature: -30°C to +55°C (-22°F to 131°F)
E output temperature rated at -30°C to +60°C (-22°F to +104°F)
for 120-277V with a maximum temperature rating reduced
by 2° C for 347/480V.
Storage Temperature: -40°C to +70°C
Surge Protection: 3kV driver surge protection
Location: UL 1598 Suitable for Damp Locations
Safety: UL/cUL Listed □/□
Environmental: RoHS compliant
Utility: DLC Premium on all 70CRI options & select 80CRI options
Meets DLC Standard on all CRI versions
Please refer to:
http://www.designlights.org/QPL
for complete information.

Construction & Finish
Housing: Combination steel and aluminum
Lensing: Polycarbonate diffused, acrylic clear
Reflector: White highly reflective polycarbonate
Paint: Powercoat Painted Housing
No glass in housing or lenses
Weight: 10lbs per module (see dimensional drawings)

Controls
Standard Dimming: 0-10VDC
Minimum Dimming: Dim down to 10%
Wireless Networking & Sensing:
ZigBee Wireless Daintree with Occ Sensor - Sensor 4
ZigBee Wireless Daintree with No Sensor - Sensor T
Enlighted Sensor - Sensor 5
Wattstopper FSP Series Motion + daylight + IR config (IR
remote sold separately) – Sensor 2
Wattstopper FSP remote = SKU# SWI0100
Sensor Switch LSX Series – Sensor B, C, or D

Mounting
Typical Mounting: Standard Chain/Cable mount ready
Threaded rod kit, ¾” pendant mount kit, and surface
mount* optional.
*Max. temperature rating reduced by 5°C
Cord & Plugs:
Standard = knockout access (no cord, no plug)
6 ft. 18-3 – Cord A
12 ft. 18-3 – Cord B
15A, 20A, Straight or twist lock plug – Plug A,B,C, or D
Reloc OCS Cord and Plug – Cord-Plug FS or GS
PlugNGo Plug Available upon request

Accessories, Options & Packaging
Optional Emergency Battery: Provides 90-minutes of
Fully independent LED system that does not degrade
performance or ratings of the fixture. 120-277V Only
Ships separately from fixture to avoid shipping damage.
Standalone EMBB: Order as field installed aftermarket or
standalone solution for emergency Lighting. 2lbs
SKU# 93059499 - ASM2430 50° beam 1750lm
SKU# 93059499 - ASM2429 120° beam 1650lm
Packaging: Standard packaging is job pack / bulk pack
consisting of 1 to 3 fixtures per package reducing unpack
time at the jobsite.
Single Pack (for stocking) – Option 1PK

Design Life & Warranty
• Reliability Testing: components and/or systems
evaluation at extreme conditions and monitored
during production
• System Warranty: 5 Year

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