ISON™ LED HIGH BAY, GEN 2

HBIF2

Applications
The ISON HBIF2 is an industry leader in meeting high bay and low bay illumination requirements for industrial, commercial, and retail applications. With best in class “Lumen per Watt Performance” one can expect maximized energy savings which will lead to the lowest total cost of ownership for high bay illumination.

Features
- Future-proof modular design allows for easy access to components and is upgradeable for performance enhancements
- Superior thermal management leads to longer life and enhanced performance
- LED panel allows interchangeability between open or aisle light distribution
- Intelligent control options offered to maximize additional energy savings
- Optional glare control lens system to enhance low bay applications
- Optional aisle illumination performance package
- Acrylic frosted or polycarbonate clear lens options available
- Aisle Illuminator package: 95% reflectance polished aluminum optics for aisle applications
- Emergency fixture identifier option available. End caps painted OSHA orange for easy identification from the floor. Commonly used on fixtures with battery backup and fixtures connected to an emergency circuit
- 10 kA surge protection available

Electrical
- Available in 120v-277v, 347v and 480v
- Full dimming (0-10v) and Non-dimming fixtures available

Rated Life
150,000 hours L70

Warranty
Orion LED ISON™ class fixtures are covered by a five or ten-year limited warranty subject to the ambient operating temperature. Refer to ambient operating table on page 3. When sensors are used with product in applications below 0°C (32°F), written approval from factory is required for warranty to apply. Accessories and individual components are covered by separate OEM supplier warranties.

Awards
Consulting Specifying Engineer Product of the Year Award 2016

Ambient Operating Range
Refer to ambient operating table on page 3

Certification & Listings
- Patented modular design
- UL Damp Listed
- Buy American Act Compliant
- DesignLights Consortium™ Premium qualified luminaire
- Visit the DLC QPL for listed models

Patent Information
Orion is serious about intellectual property. This product may be covered by one or more patents. Patent information available at http://www.orionlighting.com/about/patents

2016 U.S. PAT.
## Ordering Information Example  
(NOTE: No dashes or spaces unless noted below)

<table>
<thead>
<tr>
<th>Series</th>
<th>Nominal Lumen Code</th>
<th>Application</th>
<th>Voltage</th>
<th>Driver Type</th>
<th>CRI; Color Temp</th>
<th>Lens Material</th>
<th>Power Connection</th>
<th>Fixture Options</th>
<th>Control Options</th>
<th>Packaging Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBIF2</td>
<td>C1</td>
<td>AA</td>
<td>UNV</td>
<td>FDX</td>
<td>850</td>
<td>LF</td>
<td>HW</td>
<td>OE</td>
<td>WS40</td>
<td>-SP</td>
</tr>
</tbody>
</table>

## Ordering Information

<table>
<thead>
<tr>
<th>Series</th>
<th>Nominal Lumen Code</th>
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<th>Lens Material</th>
<th>Power Connection</th>
<th>Fixture Options</th>
<th>Control Options</th>
<th>Packaging Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBIF2</td>
<td>A1= 12,000lm</td>
<td>OA</td>
<td>UNV</td>
<td>FDX</td>
<td>835–80CRI, 3500K</td>
<td>LF</td>
<td>No Option</td>
<td>OE</td>
<td>-EN</td>
<td>-Blank</td>
</tr>
<tr>
<td></td>
<td>B1= 16,000lm</td>
<td>OA</td>
<td>UNV</td>
<td>FDX</td>
<td>840–80CRI, 4000K</td>
<td>LF</td>
<td>No Option</td>
<td>OE</td>
<td>-EN</td>
<td>-Blank</td>
</tr>
<tr>
<td></td>
<td>C1= 19,000lm</td>
<td>AA</td>
<td>UNV</td>
<td>FDX</td>
<td>850–80CRI, 5000K</td>
<td>LF</td>
<td>No Option</td>
<td>OE</td>
<td>-EN</td>
<td>-Blank</td>
</tr>
<tr>
<td></td>
<td>D1= 25,000lm</td>
<td>AA</td>
<td>UNV</td>
<td>FDX</td>
<td>850–80CRI, 5000K</td>
<td>LF</td>
<td>No Option</td>
<td>OE</td>
<td>-EN</td>
<td>-Blank</td>
</tr>
</tbody>
</table>

Note: Wireguard Available (See Accessories Table)

- **NL** = No Lens
- **LF** = Lens, Frosted Acrylic
- **LC** = Lens, Clear Polycarbonate

- **FDX** = Full Dimming 0-10v
- **NDX** = Non-Dimming

- **835–80CRI, 3500K**
- **840–80CRI, 4000K**
- **850–80CRI, 5000K**

- **HW** = Hardwire
- **PF** = Platform
- **ML** = Mate-N-Lock

- **OE** = Orange Emergency (Painted Ends)

- **FWBB** = Fixture with Battery Back Up
- **BBOE** = Battery Back Up with Orange Emergency (Painted Ends)

- **C** = Cold Temperature Environment

- **TS** = 10 kA Surge Protection

- **[Blank]** = No Option
- **MSU** = Integrated Control, On/ Off Only, High, Low Bay and Aisle Lenses
- **MC20** = Integrated Control, Manual Programmable, 8'-20' Lens
- **MC40** = Integrated Control, Manual Programmable, 20'-40' Lens
- **WS20** = Integrated Control, Remote Programmable, 8'-20' Lens
- **WS40** = Integrated Control, Remote Programmable, 20'-40' Lens
- **-DT** = Integrated Control, Daintree, ZigBee Wireless System, High, Low Bay and Aisle Lenses
- **-EN** = Integrated Control, Enlighted Wireless System, [Max. Install Height 50']
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Physical and Performance Information, Open Area, No Lens

<table>
<thead>
<tr>
<th>Series</th>
<th>Nominal Lumen Code</th>
<th>Actual Lumens</th>
<th>277V wattage</th>
<th>277V LPW</th>
<th>Input Voltage</th>
<th>Input Current/Amps</th>
<th>Power Factor</th>
<th>CCT</th>
<th>CRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBF2</td>
<td>A1</td>
<td>12,890lm</td>
<td>72w</td>
<td>178</td>
<td>277V</td>
<td>0.26A</td>
<td>&gt;.90</td>
<td>5000K</td>
<td>≥80</td>
</tr>
<tr>
<td>HBF2</td>
<td>B1</td>
<td>16,530lm</td>
<td>94w</td>
<td>176</td>
<td>277V</td>
<td>0.34A</td>
<td>&gt;.90</td>
<td>5000K</td>
<td>≥80</td>
</tr>
<tr>
<td>HBF2</td>
<td>C1</td>
<td>19,080lm</td>
<td>106w</td>
<td>179</td>
<td>277V</td>
<td>0.38A</td>
<td>&gt;.90</td>
<td>5000K</td>
<td>≥80</td>
</tr>
<tr>
<td>HBF2</td>
<td>D1</td>
<td>25,330lm</td>
<td>143w</td>
<td>177</td>
<td>277V</td>
<td>0.52A</td>
<td>&gt;.90</td>
<td>5000K</td>
<td>≥80</td>
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</tbody>
</table>

Physical Information

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>46.70&quot;</td>
<td>19.70&quot;</td>
<td>3.69&quot;</td>
<td>16.70lbs</td>
</tr>
</tbody>
</table>

Photometrics

Visit orionlighting.com to obtain all .IES files

C1 AA 850

Ambient Operating Temperatures

5 Year Warranty

<table>
<thead>
<tr>
<th>Nominal Lumen Code</th>
<th>All Voltages</th>
<th>All Voltages [-C Option]</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1/B1</td>
<td>-20°C to 65°C [-4°F to 149°F]</td>
<td>-35°C to 65°C [-31°F to 149°F]</td>
</tr>
<tr>
<td>C1/D1</td>
<td>-20°C to 60°C [-4°F to 140°F]</td>
<td>-35°C to 60°C [-31°F to 140°F]</td>
</tr>
</tbody>
</table>

10 Year Warranty

<table>
<thead>
<tr>
<th>Nominal Lumen Code</th>
<th>All Voltages</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1/B1</td>
<td>-20°C to 60°C [-4°F to 140°F]</td>
</tr>
<tr>
<td>C1</td>
<td>-20°C to 50°C [-4°F to 122°F]</td>
</tr>
<tr>
<td>D1</td>
<td>-20°C to 55°C [-4°F to 131°F]</td>
</tr>
</tbody>
</table>
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HBIF2

Accessories [Field Installed]

<table>
<thead>
<tr>
<th>Suspended Mounting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECAB31</td>
</tr>
<tr>
<td>HW-FC006</td>
</tr>
<tr>
<td>OESH101BRA</td>
</tr>
<tr>
<td>OESH108BRA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rigid Mounting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>H125SET-DG</td>
</tr>
<tr>
<td>PMR-HBIF2-DG-3/4-AW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Fixture Options**</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED-HBIF2-WG01-KIT</td>
</tr>
<tr>
<td>LED-HBIF2-LF-KIT</td>
</tr>
<tr>
<td>LED-HBIF2-LC-KIT</td>
</tr>
</tbody>
</table>

**Add "-SP" at the end of the Additional Fixture Accessories order logic for Single Pack.

Fixture Options – Factory Installed

FWBB: Battery Back Up [test button shown]

LC: Lens, Clear Polycarbonate

WSXX: Integrated Sensor

EN: Enlightened Integrated Sensor

OE: Orange Emergency Painted Ends

LF: Lens, Frosted Acrylic

Fixture Options – Field Installed

LED-HBIF2-WG01-KIT: Wireguard

Additional Specification Information

1 For actual lumens, see performance table
2 "X" in part number is a character placeholder for the manufacturing configuration
3 Fixture with battery backup cannot be installed in an environment where the ambient temperature falls below 32°F
4 Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values. Values, test results, and performance tables are based on an open area application at 277v
5 Weight will vary based on option selection
6 Feature/option only available with FDX driver type
7 Feature/option only available with NDX driver type
8 -EN is limited to -35°C [-3°F] environments.
9 Requires the order of platform power cord. Cord not included in fixture purchase
10 Contact customer service regarding additional commissioning and back end control system pricing
11 LED-HBIF2-LF or LED-HBIF2-LC fixture option is not available with OEMS1 style sensors
12 ML (Mate-N-Lok) fixture option is not available with OEMS1 style sensors
13 BB requires a hardwire connection