# LITHONIA LIGHTING®

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The IBZ fluorescent high bay is ideal for new construction and renovation projects. It is a one-for-one replacement of common metal halide high bay systems. The unique Cool Running Plus™ technology provides industry-leading, trouble-free operation in ambient temperatures up to 155°F (68°C). Applications include manufacturing, warehousing, commercial and industrial facilities. The IBZ fixture performs well at mounting heights from 15'-40'. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

**CONSTRUCTION** — The highly configurable design of the IBZ high bay allows for a multitude of fixture options that can either be factory- or field-installed. The easy-access ballast channel houses the proprietary Cool Running Plus technology, which is the most advanced fluorescent ballast technology available for fluorescent high bay lighting. It has independent lamp operation to reduce lamp maintenance costs, is fast-starting to improve occupancy sensing, and a proprietary thermal-sensing processor that allows for reliable operation in environments where ambient temperatures can reach up to 155°F (68°C).

In addition to the reliable operation of IBZ fixtures, the reflectors tightly control the distribution of light and effectively manage lamp heat to increase the overall efficiency. The result is superior optics in either narrow distribution for aisles, or wide distribution for general lighting. Installation is made quick and easy with IBZ hanging accessories such as the aircraft cable and single-point mounting bracket. IBZ fixtures can be factory-wired to have both sensors and cord sets, further reducing installation time. The configurability, performance and ease of installation make IBZ fixtures the preferred choice for fluorescent high bay lighting.

Channel is formed of heavy-duty code-gauge (22-gauge) steel to stand up to the most demanding elements. Lamp holder assembly protects from incidental damage or movement of sockets during handling and installation. Lamp holders (sockets) are manufactured from PBT (polybutylene terephthalate) material for increased chemical resistance along with secure positioning rotating collars and enclosed contacts. Access plate on the back of the channel housing allows quick and easy wiring.

Finish: Channel is high-gloss white baked enamel; five-stage iron phosphate pretreatment ensures superior paint adhesion and rust resistance.

**OPTICS** — Two optical systems are available. Narrow distribution is ideal for narrow or aisle lighting applications and features precision-formed segmented optics utilizing specular aluminum reflector. Provides 95% reflectivity and warranted for 25 years. Wide distribution includes high-reflectance white finish for general or open areas.

**ELECTRICAL** — Thermally protected, resetting, Class P, HPF, A sound-rated electronic ballast. AWM TFM or THHN wire used throughout rated for required temperatures. Ballast disconnect (BDP) is standard unless EL14 or cord set is requested.

**INSTALLATION** — Suitable for suspension by chain, cable, surface-mounting bracket, hook monopoint or single (pendant) monopoint. Surface mounting not recommended without optional surface mounting bracket. To maintain high ambient listing, fixture should be mounted at a minimum plenum height of 8".
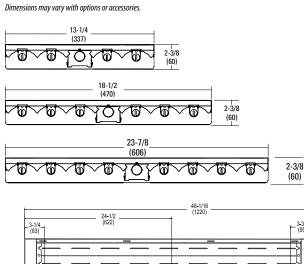
**LISTINGS** — CSA Certified to U.S. and Canadian safety standards (UL1598 and CSA 250.0-08) for 55°C and 40°C lensed. Suitable for damp locations.

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

**Note:** Actual performance may differ as a result of end-user environment and application.
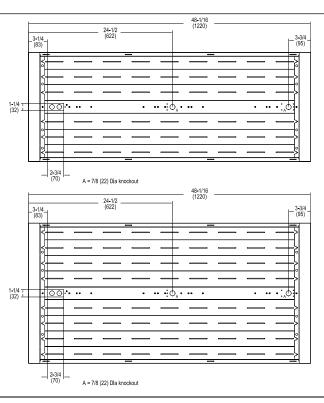
Specifications subject to change without notice.

## T-BEAM® IBZ
### FLUORESCENT HIGH BAY

Fluorescent High Bay

# IBZ

4-, 6- or 8-lamp T5HO

Patent Pending

### COOL RUNNING TECHNOLOGY

| SPECIFICATIONS | | | | |
|---|---|---|---|---|
| | **Length** | **Width** | **Depth** | **Weight** |
| **4-lamp** | 48-1/16 (1221) | 13-1/4 (337) | 2-3/8 (60) | 16 lbs. (7.3 kg) |
| **6-lamp** | 48-1/16 (1221) | 18-1/8 (460) | 2-3/8 (60) | 20 lbs (9.1 kg) |
| **8-lamp** | 48-1/16 (1221) | 23-7/8 (606) | 2-3/8 (60) | 25 lbs. (11.3 kg) |

*All dimensions are inches (millimeters) unless otherwise specified and may vary with options or accessories.*

## DIMENSIONS

*Dimensions may vary with options or accessories.*

13-1/4 (337) — 2-3/8 (60)

18-1/2 (470) — 2-3/8 (60)

23-7/8 (606) — 2-3/8 (60)

48-1/16 (1220)
24-1/2 (622)
3-1/4 (83)
3-3/4 (95)
1-1/4 (32)
2-3/4 (70)
A = 7/8 (22) Dia knockout

48-1/16 (1220)
24-1/2 (622)
3-1/4 (83)
3-3/4 (95)
1-1/4 (32)
2-3/4 (70)
A = 7/8 (22) Dia knockout

48-1/16 (1220)
24-1/2 (622)
3-1/4 (83)
3-3/4 (95)
1-1/4 (32)
2-3/4 (70)
A = 7/8 (22) Dia knockout

# IBZ  Fluorescent High Bay, T5HO

**ORDERING INFORMATION**   Lead times will vary depending on options selected. Consult with your sales representative.

**IBZ**

| Series | Lamp type | Distribution | Shielding [2] | Voltage | Ballast configuration | Ballast [6] |
|---|---|---|---|---|---|---|
| IBZ<br>*For tandem double-length unit, add prefix "T". Ex: TIBZ* | Lamps installed [1]<br>454L  4-lamp 54W T5HO<br>654L  6-lamp 54W T5HO<br>854L  8-lamp 54W T5HO<br>Unlamped<br>454  4-lamp 54W T5HO<br>654  6-lamp 54W T5HO<br>854  8-lamp 54W T5HO | (blank)  Narrow distribution, ≤5% uplight<br>NDU  Narrow distribution, enhanced uplight, ≤13% uplight<br>WD  Wide distribution, ≤5% uplight<br>WDU  Wide distribution, enhanced uplight, ≤13% uplight | (blank)  No shielding<br>A12125  Pattern 12 acrylic, 0.125" [3,4]<br>ACL  Clear acrylic, 0.125" [3,4]<br>PCL125  Clear polycarbonate, 0.125" [3,4]<br>NLWG  No lens; wireguard in door frame [3] | (blank)  MVOLT; 120-277V<br>HVOLT  347V-480V [5] | (blank)  Standard configuration<br>4-lamp =  (1) 4-lamp ballast<br>6-lamp =  (1) 2-lamp and (1) 4-lamp ballast<br>8-lamp =  (2) 4-lamp ballasts | ACRP  Cool Running Plus T5 electronic, 1.0 BF, programmed rapid start [7]<br>GEB10PS90  T5 electronic, 1.0 BF, programmed rapid start |

| Lamp color | Options | | | |
|---|---|---|---|---|
| (blank)  F54T5HO/841<br>LP835  F54T5HO/835<br>LP850  F54T5HO/850<br>Amalgam lamps [8]<br>LP841A  F54T5HO/841<br>LP835A  F54T5HO/835<br>LP850A  F54T5HO/850<br>Energy-saving 49W lamps<br>P841E49  F54T5HO/841<br>P835E49  F54T5HO/835<br>P850E49  F54T5HO/850 | GLR  Internal fast-blow fuse [9,10]<br>GMF  Internal slow-blow fuse [9,10]<br>EL14  Emergency battery pack [9,11,12]<br>EL14SD  Emergency battery pack w/ self-diagnostics [9,11,12]<br>I162  1250 lumens per lamp battery [11,12,13]<br>OUTCTR  Wiring leads pulled through back center of fixture [3]<br>OCS  RELOC® OnePass® 5' installed [9]<br>IMP  Integrated modular plug [14]<br>FSP  Integral full side panels<br>HBBSIC  Chain hanger (pair)<br>HBBS36IC  Chain hanger with 36" chain (pair) | Cord sets:<br>CS1W  Straight plug, 120V [15,16]<br>CS3W  Twist-lock, 120V [15,16]<br>CS7W  Straight plug, 277V [15,16]<br>CS11W  Twist-lock, 277V [15,16]<br>CS25W  Twist-lock, 347V [15,16]<br>CS97W  Twist-lock, 480V [15,16]<br>CS93W  600 SO white cord, no plug (no voltage required) [15,16]<br>Wireguards:<br>WGX  External wireguard installed<br>2WGX  External wireguard installed on bottom of fixture [17] | Motion sensors:<br>LC0ZU  Aisle motion sensor, pre-wired [18,19]<br>LCH0SZU  Aisle motion sensor, pre-wired; programmable dimming [18,19]<br>LCPZU  Aisle motion sensor with photocell; pre-wired [18,19]<br>LA0ZU  360° motion sensor, pre-wired [18,19]<br>LAH0SZU  360° motion sensor, pre-wired; programmable dimming (only available with programmable dimming ballasts) [18,19]<br>LAPZU  360° motion sensor with photocell, pre-wired [17,18]<br>MSE360  360° motion sensor, embedded, high bay [18,19]<br>MSE360LB  360° motion sensor, embedded, low bay [18,19]<br>nPP16D  nLight switching/dimming module [20]<br>nMSI  nLight, aisle motion sensor, pre-wired [21]<br>nMSI360  nLight, 360° motion sensor, pre-wired [22] | |

**Accessories:** *Order as separate catalog number.*

| Mounting: | Field-installable door and lens assemblies: [24,25] | Cord sets and sensors for IMP option: | Wireguards: |
|---|---|---|---|
| IBAC120 M20  Aircraft cable 10' with hook (one pair)<br>IBAC240 M20  Aircraft cable 20' with hook (one pair)<br>IBHMP  Hook monopoint<br>IBZACVH  Aircraft 10' V hanger (one pair)<br>IBZTFC  Tandem coupler and side panel<br>IBZPMP  Pendant monopoint splice box, includes side covers [23]<br>IBZPMPHB  Pendant monopoint splice box, includes side covers (3/4" hub) [23]<br>HBBS36  Chain hanger, 36" (one pair)<br>IBZSMB  Surface-mounting bracket (one pair) | DLIBZ14 A12125  4-lamp pattern 12 acrylic lens, 0.125" [24,25]<br>DLIBZ14 ACL  4-lamp clear acrylic lens [24,25]<br>DLIBZ14 PCL125  4-lamp clear polycarbonate lens, 0.125" [24,25]<br>DLIBZ19 A12125  6-lamp pattern 12 acrylic lens, 0.125" [24,25]<br>DLIBZ19 ACL  6-lamp clear acrylic lens [24,25]<br>DLIBZ19 PCL125  6-lamp clear polycarbonate lens, 0.125" [24,25]<br>DLIBZ24 ACL  8-lamp clear acrylic lens [24,25]<br>DLIBZ24 PCL125  8-lamp clear polycarbonate lens, 0.125" [24,25] | CS1WIMP  Straight plug, 120V [9,15,16]<br>CS3WIMP  Twist-lock, 120V [9,15,16]<br>CS7WIMP  Straight plug, 277V [9,15,16]<br>CS11WIMP  Twist-lock, 277V [9,15,16]<br>CS25WIMP  Twist-lock 347V<br>CS93WIMP  600V SO white cord, no plug (no voltage required) [15]<br>CS97WIMP  Twist-lock 480V<br>MSIIMP  Aisle sensor [9,26]<br>MSI360IMP  360° sensor [9,26] | WGIBZ14  Standard 4-lamp wireguard<br>WGIBZ19  Standard 6-lamp wireguard<br>WGIBZ24  Standard 8-lamp wireguard |

**Notes**

1  Lamps installed are F54T5HO/841 unless otherwise specified

2  5/55°F warranty with open fixtures only.

3  Not available with MSE360 option.

4  For wireguard in door frame, add "WG" to shielding. Ex:A12125WG

5  Nonstandard configurations may require factory installed BACKPACK™. Consult factory.

6  Certain ballast may require a BACKPACK™ installed by the factory in order to accommodate the size of the battery The BACKPACK™ is NOT field installable. May only be surface mounted using IBZSMB. Not available with pendant mount using IBZPMP or IBZPMPHB. Not available with IMP.

7  Not available with HVOLT.

8  Not for use with motion sensors.

9  Specify voltage. Consult factory for Canadian applications.

10  Not available with 347 voltage

11  Battery options require a BACKPACK™ installed by the factory in order to accommodate the size of the battery. The BACKPACK is NOT field installable. May only be surface mounted using IBZSMB. Not available with pendant mount using IBZPMP or IBZ PMPHB. Not available with IMP.

12  Certified to UL1598 (approx. 1100 lumens at 25°C when using 49W lamps, and 911 lumens at 45°C), Single-lamp operation only.  120 or 277 voltage only.

13  Max 2500 lumens when used with 54WT5 lamps up to 55°C ambient temperature (120 or 277 voltage only).

14  Must be factory -installed. Not available on TIBZ 16-lamp configurations. Must have "IMP" power cord to power fixture.

15  All cord sets are 18/3, 6' white.

16  Cord sets are voltage specific.  Specify voltage.  Other configurations available.  Consult factory.

17  One wireguard shipped as separate line item for top installation in field. Not available with IBZPMP.

18  Specify voltage

19  Other configurations available, see page four for additional options

20  nPP16D options utilizes nPP16 and a nIO D K0 device, CAT5e connector cable alos included.  Available 120 or 277V only.

21  nMSI utilizes nPP16 and a nCMB 50, CAT5e cable also include.  Available 120 or 277V only.

22  nMSI360 option utilizes a nPP16 and a nCMB 6, CAT5e cable also included. Available 120 or 277V only.

23  When ordering IBZPMP, two-ballasts configurations are recommended. Ex: 2/2.  Not available with tandem units.

24  Not available with any battery pack.

25  Not available with MSE360 or MSE360LB.

26  Must have "IMP" power cord to power fixture.

## LSXR - Fixture Mount Sensor (see www.sensorswitch.com for additional information)

- Four interchangeable lenses.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions — designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.

| LSXR configuration | Comparable CMRB sensor | Old style sensor nomenclature |
|---|---|---|
| **For shortest lead times use one of the following LSXR configurations** | | |
| LCOZU | CMRB 50 | MSI |
| LCH0SZU | CMRB 50 D | MSID |
| LCPZU | CMRB 50 P | MSIPED |
| LAOZU | CMRB 6 | MSI360 |
| LAH0SZU | CMRB 6 D | MSI360D |
| LAPZU | CMRB 6 P | MSI360PED |

## SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME.
## CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.

**SINGLE RELAY**

**ORDERING INFORMATION**  Lead times will vary depending on options selected. Consult with your sales representative.  **Example**: LAH0SZU

| Series | Lens option | Dimming/Photocell | Max. dim Level | Min. dim level | Temp/Humidity | Default time delay |
|---|---|---|---|---|---|---|
| L  LSXR passive infrared indoor occupancy sensor | A  High mount, 360°<br>B  Low mount, 360°<br>C  High mount aisleway | O  None[1]<br>H  High/low occupancy operation<br>P  Switching photocell(on/off)<br>M  Dimming and switching photocell<br>G  Dimming and switching photocell with high/low occupancy operation | 0  10 VDC<br>9  9 VDC<br>8  8 VDC<br>7  7 VDC | S  Minimum dimming level of ballast<br>1  1 VDC<br>2  2 VDC<br>3  3 VDC<br>4  4 VDC<br>5  5 VDC<br>6  6 VDC | Z  None<br>T  Low temperature | I  30 seconds<br>D  2.5 minutes<br>X  5 minutes<br>R  7.5 minutes<br>U  10 minutes (with minimum 15 minutes on time)<br>V  15 minutes<br>W  20 minutes<br>Y  30 minutes |

### DUAL RELAY (Available with 120, 277, and 347V only)

**ORDERING INFORMATION**  Lead times will vary depending on options selected. Consult with your sales representative.  **Example**: LA2KZU

| Series | Lens option | Poles | Operating mode | Temp/Humidity | Default time delay |
|---|---|---|---|---|---|
| L  LSXR passive infrared indoor occupancy sensor | A  High mount, 360°<br>B  Low mount, 360°<br>C  High mount aisleway | 2  Dual relay | J  None<br>K  Alternating off relays (promotes even lamp wear)<br>O  Alternating off relays w/photocell<br>P  Switching photocell(on/off)<br>E  Photocell on/off (pole 1 only)<br>F  Photocell on/off - both poles (dual set-point) | Z  None<br>T  Low temperature | I  30 seconds<br>D  2.5 minutes<br>X  5 minutes<br>R  7.5 minutes<br>U  10 minutes (with minimum 15 minutes on time)<br>V  15 minutes<br>W  20 minutes<br>Y  30 minutes |

**Example**: LENS 50 J100

| Replacement lenses: *Order as separate catalog number.* | | |
|---|---|---|
| Series | Lens type | Package quantity |
| Lens | 6  High mount 360°<br>10  Low mount 360°<br>50  High mount aisleway | U  Unit<br>J10  10-pack<br>J100  100-pack |

**Notes**
1  Dimming level fields not required when this option is chosen.