I-BEAM® IBZ
Highly Configurable Fluorescent High Bay.
For more than 60 years, Lithonia Lighting has delivered high-quality, reliable lighting solutions in an evolving market. We have leveraged this experience to develop innovative lighting technology that meets growing consumer demands in efficiency, reliability, environmental impact and customization options. Lithonia Lighting prides itself in engineering products to perform while ensuring they are easy to install and maintain. This makes them the most preferred products on the market.

Since its launch in 2005, the I-BEAM® system has become the most widely used and specified fluorescent high bay in the industry. Since day one, it has offered energy savings, value and performance that can’t be matched by traditional HID lighting.
The I-BEAM® IBZ system is the most widely used and specified fluorescent high bay in the industry. It boasts a user-friendly design, energy efficiency and nearly limitless options to meet the needs of a wide variety of applications.

**IBZ FEATURES**

- Optional features and accessories that can be factory or field installed.
- Proprietary Z-strip channel that allows quick ballast access.
- Superior thermal management and optical design.
- State-of-the-art T5HO lamp and ballast system featuring Cool Running Plus™ Technology.
ENGINEERED
TO PERFORM

SUPERIOR OPTICS are highly efficient and provide precise control of light.

COOLING VENTS aid in the thermal management of both ballast and lamps.

RIGID DESIGN maintains tight specifications on critically spaced components.

ADDITIONAL FEATURES:

PROPRIETARY CHANNEL COVER allows for quick and easy ballast access with no fasteners to drop or lose; rolled edges reduce chance for cut wires.

STEEL SIDE RAILS protect the reflector from damage and the installer from exposure to sharp edges during handling.

FLAT, LOW-PROFILE DESIGN reduces space occupancy on trucks and lifts. It also allows for less packaging resulting in less jobsite material to clean up and recycle.

SEGMENTED REFLECTORS have multiple breaks that add strength to the reflector and provide precise control of light distribution.

CONTROLS
Fixture can be equipped with an occupancy sensor, photo sensor, nLight® or nWiFi™. Devices are factory-installed and require minimal labor to set up during fixture installation.
COOL RUNNING PLUS™ TECHNOLOGY
ballast warranted for five years in environments up to 155°F (68°C)

OPTIONAL ENERGY-SAVING T5HO LAMPS
supported by an unprecedented five-year warranty (three-year with occupancy sensors)

MULTIPLE OPTIONS AND ACCESSORIES
available to support almost any application
The I-BEAM IBZ was engineered to be the most configurable high bay on the market. It offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.

**INTEGRATED MODULAR PLUG (IMP)**

must be factory-installed and allows for field installation of various modular accessories including cordsets, motion sensors, photocells and LC&D XPoint™ relays.

**V-SHAPED WIRE GUARDS** (external)

flex on impact to absorb shock, reducing damage to the fixture assemblies. Wire guards can be mounted on top and bottom of fixtures to provide full protection.

**INTEGRATED MODULAR PLUG (IMP)**

must be factory-installed and allows for field installation of various modular accessories including cordsets, motion sensors, photocells and LC&D XPoint™ relays.

**IBZ BACKPACK™**

electrical box can be factory-installed to house additional components such as emergency ballasts, step-down transformers and dimming ballasts. Extended brackets allow air flow for increased heat management of all components.

**EMBEDDED OCCUPANCY SENSOR**

can be placed in the channel cover, which reduces the risk of sensor damage compared to non-embedded sensors.

**IBZ BACKPACK™**

electrical box can be factory-installed to house additional components such as emergency ballasts, step-down transformers and dimming ballasts. Extended brackets allow air flow for increased heat management of all components.

**PENDANT MONOPOINT BRACKET**

accepts ¾" rigid conduit for single-point mounting. The bracket can be adjusted to help counterbalance fixture to offset weight variance from end to end.

**TANDEM CAPABILITY**

supports applications requiring high luminance and high mounting heights. The 8’ tandem option is factory-assembled with continuous steel side panels and tensioning couplers. Tandem kits are also available for field installation.

**IN THE INDUSTRY**
Sensors & Controls

Sensors are an excellent way to maximize the return on your high bay lighting investment. I-BEAM IBZ fixtures can be equipped with an occupancy sensor, photo sensor, nLight® or nWiFi™. These devices are factory-installed and require minimal labor to set up during fixture installation.

MSI360: The Sensor Switch CRMB-6 open-area sensor has 360° coverage and can be integrated with a photocell (PE) for further energy savings.

- **Mounting Location:** End plate
- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture

MSI: The Sensor Switch CMRB-50 aisleway sensor offers a dedicated sensor and extended range compared to competitive products.

- **Mounting Location:** End plate
- Provides 50° bi-directional and 10° wide coverage pattern
- 1.2x mounting height equals approximate detection range in either direction
- Sensor lens turret rotates 90° in order to easily adjust the direction of the view pattern

MSE360: The Sensor Switch SFR-5 open-area sensor is embedded in the IBZ, making it less intrusive than traditional sensors.

- **Mounting Location:** Center channel
  - Recommended for fixtures that have a 1.0 spacing-to-mounting-height ratio or less
  - Use provided masking kit to mask off a portion of the view pattern for end-of-aisle applications or to trim sensor’s side viewing to create a rectangular pattern for center-of-aisle viewing only

**All I-BEAM LED** fixtures can be equipped with nLight. nLight is an exclusive and revolutionary system that cost-effectively combines time-based and sensor-based lighting controls. The digital interface allows for quick, easy modifications to time delays, photocell sensitivity and light levels at the individual fixture level.

nWiFi for nLight adds conventional WiFi technology to nLight devices, such as occupancy sensors and relays, enabling them to seamlessly communicate with both wired and wireless nLight lighting control zones. This powerful new nLight technology further simplifies installation and reduces hardware costs.
It is not uncommon for ambient temperature at the mounting height to reach 149°F (65°C), putting critical fixture components at risk.

The I-BEAM IBZ includes the most advanced thermal management system on the market. These advancements were made possible from years of high bay lighting experience and close interaction with industry-leading component manufacturers to integrate state-of-the-art electronics. The byproduct of this collaboration is a system that provides years of trouble-free service while performing in high-ambient applications.

**THERMAL MANAGEMENT**

**REFLECTOR DESIGN**

Perfectly sized vents have been added to the reflectors to create the “Venturi Effect.” Using lamp heat, air pulls through the lamp cavity to provide ventilation and reduce dirt buildup on top of the lamps.

**CHANNEL DESIGN**

The thermal management of the ballast is critical to ensuring the longest possible life of the fixture’s electrical components. With perforated vents in the channel and channel cover, the IBZ can convect heat away from three sides of the ballast. The other side of the ballast is designed to make solid, continuous contact with the surface conducting heat while using the steel channel as a heat sink.
Standard T5HO ballasts are UL listed for 194°F (90°C) maximum case temperature, which occurs when ambient temperature reaches no higher than 140°F (60°C). Cool Running Plus™ Technology allows our ballast to operate up to 155°F (68°C) before reaching maximum case temperature. By protecting critical components, you get more reliable ballasts and longer service life.

Lithonia Lighting partnered with the leader in T5HO ballasts to engineer the most technologically advanced Philips Advance T5HO ballast on the market. This patent-pending ballast featuring Cool Running Plus™ Technology is the standard ballast on the I-BEAM® IBZ system.

**ADVANTAGES OF COOL RUNNING PLUS™ TECHNOLOGY**

**THERMAL GUARD RESPONDER** uses a programmable microprocessor to monitor system temperature and regulate ballast temperature, ensuring the ballast doesn’t overheat and degrade the system components.

**INDEPENDENT LAMP OPERATION** allows system to retain higher light levels when individual lamps need to be replaced.

**ENHANCED TWO-LEVEL SWITCHING** (night light mode) saves additional energy when switching from four-lamp to two-lamp operation.

**FAST START TIME** of less than one second allows the system to be more effective when using sensors or when switched on/off frequently.

**5/155 WARRANTY** guarantees system performance for five years at ambient temperatures as high as 155°F (68°C).
IBZ Fluorescent High Bay, T5HO

ORDERING INFORMATION
Specifications subject to change. See lithonia.com for most recent ordering information.

Example: IBZ 454L

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type</th>
<th>Distribution</th>
<th>Shielding</th>
<th>Voltage</th>
<th>Ballast configuration</th>
<th>Ballast</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBZ</td>
<td>For tandem double-length unit, add prefix &quot;T&quot;, ex: TIBZ</td>
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<tr>
<td>454L</td>
<td>4-lamp 54W T5HO</td>
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<tr>
<td>654L</td>
<td>6-lamp 54W T5HO</td>
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<td></td>
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<tr>
<td>854L</td>
<td>8-lamp 54W T5HO</td>
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<td>Unlamped</td>
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<tr>
<td>454</td>
<td>4-lamp 54W T5HO</td>
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<tr>
<td>654</td>
<td>6-lamp 54W T5HO</td>
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<tr>
<td>854</td>
<td>8-lamp 54W T5HO</td>
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<td></td>
</tr>
</tbody>
</table>

(blank) Narrow distribution, ≤5% uplight
(NDU) Narrow distribution, enhanced uplight, ≤13% uplight
(WD) Wide distribution, ≤5% uplight
(WDU) Wide distribution, enhanced uplight, ≤13% uplight

(NDU) No shielding
(SELECT) Pattern 12 acrylic, 0.125" × 1.25"
(SELECT) Clear acrylic, 0.125" × 1.25"
(SELECT) Clear polycarbonate, 0.125" × 1.25"
(SELECT) No lens; wire guard in door frame

- (NDU) 4-lamp ballast
- (SELECT) 2-lamp and (1) 4-lamp ballast
- (SELECT) 4-lamp ballasts

- MVOLT: 120-277V
- 347V
- 480V

1. Must have "IMP" power cord to power fixture.
2. Add WG to nomenclature if wire guard is to be installed in door frame, ex: DLIBZ14 A12125WG.
3. Not available with MSE360 or MSE360LB.
4. For wire guard in door frame, add "WG" to shielding. Ex: A12125WG.
5. Lamps installed are F54T5HO/841 unless otherwise specified.
6. 5/55°F warranty with open fixtures only.
7. Lamps installed are GEB10PS90, 1.0 BF, programmed rapid start.
8. Not available with MSE360 or MSE360LB.
9. When ordering IBZPMP, two-ballast configurations are recommended. Ex: 2/2. Not available with tandem units. Not available with any battery pack.
10. Not available with MSE360 or MSE360LB.
11. Add WG to nomenclature if wire guard is to be installed in door frame, ex: DLIBZ14 A12125WG.
12. Must have "IMP" power cord to power fixture.

Notes:
1. Lamps installed are FS4T5HO/841 unless otherwise specified.
2. 5/55°F warranty with open fixtures only.
3. Not available with MSE360 option.
4. For wire guard in door frame, add "WG" to shielding. Ex: A12125WG.
5. Nonstandard configurations may require factory installed BACKPACK™. Consult factory.
7. Specify voltage.
8. Not available with 347 voltage.
9. 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 IBZPMPHB. Not available with IMP.
10. 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.
11. Max 2500 lumens when used with 54W T5 lamps up to 55°C ambient temperature (120 or 277 voltage only).
12. Must be factory-installed. Not available on TIBZ 16-lamp configurations.
13. All cord sets are 18/3, 6', white.
15. Specify voltage: 120, 208, 240, 277, 347 or 480.
16. Recommended for heights of 30-40'. Not available with lensed units. 120, 277 or 347 voltage only.
17. Embedded sensor. For mounting heights up to 20'; not available with lensed units. 120, 277 or 347 voltage only.
18. Contact LC&D for additional system components required.
19. One wire guard shipped as separate line item for top installation in field. Not available with IBZPMP.
20. When ordering IBZPMP, two-ballast configurations are recommended. Ex: 2/2. Not available with tandem units. Not available with any battery pack.
21. Not available with MSE360 or MSE360LB.
22. Add WG to nomenclature if wire guard is to be installed in door frame, ex: DLIBZ14 A12125WG.
23. Must have "IMP" power cord to power fixture.
### IBZ Fluorescent High Bay, T8

**ORDERING INFORMATION**

Specifications subject to change. See lithonia.com for most recent ordering information.

- **Example:** IBZ 432L

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type</th>
<th>Distribution</th>
<th>Shielding</th>
<th>Voltage</th>
<th>Ballast configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBZ</td>
<td>For tandem</td>
<td>Narrow distribution, ≤5%</td>
<td>No shielding</td>
<td>(blank)</td>
<td>MVOLT; 120-277V</td>
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<tr>
<td></td>
<td>double-length</td>
<td>upright</td>
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<td></td>
<td>Standard configuration</td>
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<td></td>
<td>unit, add prefix</td>
<td>Narrow distribution,</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>&quot;1&quot;, Ex: IBZ12</td>
<td>enhanced upright, ≤13%</td>
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<td></td>
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<td>wide distribution, ≤5%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>upright, ≤13%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Ballast**
  - **T8** electronic, instant start, 1.15-1.20 BF
  - **T8** electronic, instant start, ≤1% THD, programmed rapid start, ≤1.88 BF
  - **T8** electronic, instant start, ≤1% THD, programmed rapid start, ≤1.88 BF

- **Lamp color**
  - **GLR**
  - **GMF**
  - **EL14**
  - **EL14SD**
  - **I162**
  - **OUTCTR**
  - **IMP**
  - **FSP**
  - **HBB5IC**
  - **HBB536IC**

- **Options**
  - **Internal fast-blow fuse**
  - **Internal slow-blow fuse**
  - **Emergency battery pack**
  - **Emergency battery pack w/ self-diagnostic**
  - **1250 lumens per lamp battery**
  - **Wiring leads pulled through back center of fixture**
  - **RELIC® OnePass® 5" installed**
  - **Integrated modular plug**
  - **Integral full side panels**
  - **Chain hanger (pair)**
  - **Chain hanger with 36" chain (pair)**

- **Cord sets**
  - **CS5W** Straight plug, 120V/12V
  - **CS5WIMP** Straight plug, 120V/12V
  - **CS7WIMP** Straight plug, 277V/12V
  - **CS11WIMP** Twist-lock, 277V/12V
  - **CS25WIMP** Twist-lock, 347V/12V
  - **CS597WIMP** Twist-lock, 480V/12V
  - **CS593WIMP** 600 SO white cord, no plug (no voltage required)

- **Wire guards**
  - **WX**
  - **WGX** Dual wire guard for top and bottom protection

- **Mounting**
  - **IBAC120 M20** Aircraft cable 10" with hook (one pair)
  - **IBAC240 M20** Aircraft cable 20" with hook (one pair)
  - **IBHMP** Hook monopoint
  - **IBZACVH** Aircraft 10 V hanger (one pair)
  - **IB72TC** Tandem coupler and 6" side panel
  - **IBZPMP** Pendant monopoint splice box, includes side covers
  - **IBZPMPHB** Pendant monopoint splice box, includes side covers (3/4" hub)
  - **HBB536** Chain hanger, 36" (one pair)
  - **IBZ5MB** Surface-mounting bracket (one pair)

- **Field-installable door and lens assemblies**
  - **DUIBZ14 A12125** 4-lamp pattern 12 acrylic lenses, 0.125" (19)
  - **DUIBZ14 ACL** 4-lamp clear polycarbonate lenses, 0.125" (19)
  - **DUIBZ19 A12125** 6-lamp pattern 12 acrylic lenses, 0.125" (19)
  - **DUIBZ19 ACL** 6-lamp clear polycarbonate lenses, 0.125" (19)
  - **DUIBZ24 ACL** 8-lamp clear acrylic lenses, 0.125" (19)

- **Motion sensors**
  - **MSI** Aisle motion sensor, pre-wired
  - **MSI360** Aisle motion sensor, pre-wired
  - **MSI360L** 360° motion sensor, embedded
  - **XP1** XPoint single relay
  - **XP2** XPoint double relay

- **Wire guards**
  - **WGIB24** Standard 4-lamp wire guard
  - **WGIB24L** Standard 4-lamp wire guard

### Notes
1. Lamps installed are F32T8/841 unless otherwise specified.
2. Not available with MSI360 or MSI360L options.
3. For wire guard in door frame, add "WG" to shielding.
4. Specify voltage.
5. Not available with 347 voltage.
6. 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 IBZSBM. Not available with pendant mount using IBZPMP or IBZ PMPHB. Not available with IMP.
7. Output in emergency mode varies with ambient temperature (911 lumens at 45°C). Single-lamp operation only. 120 or 277 voltage only.
8. Max 3000 lumens when used with T8 lamps up to 55°C ambient temperature. Not available with IMP. 120 or 277 voltage only.
9. Battery packs 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 IBZSBM. Not available with pendant mount using IBZPMP or IBZ PMPHB. Not available with IMP.
10. Must have “IMP” power cord to power fixture.
11. Cord sets are voltage specific. Specify voltage. Other configurations available. Consult factory.
12. Output in emergency mode varies with ambient temperature (911 lumens at 45°C). Single-lamp operation only. 120 or 277 voltage only.
13. Recommended for heights up to 20'. Not available with lensed units. 120 or 277 voltage only.
14. Contact LC&D for additional system components required.
15. Must be factory-installed. Not available on TIBZ 16-lamp configurations.
16. External bottom wire guard factory installed. External top wire guard shipped separately for field installation. Not available with IBZPMP.
17. When ordering IBZPMP two-ballast configurations are recommended. Ex: 2/2. Not available with tandem units. Not available with any battery pack.
18. Add WG to nomenclature if wire guard is to be installed in door frame, Ex: DLIBZ14 A12125W.
19. 120 or 277 voltage only.
20. 120 or 277 voltage only.
INTEGRATE DAYLIGHTING & CONTROLS WITH I-BEAM® IBZ

- SUNOPTICS® SKYLIGHT
- SENSOR SWITCH® OCCUPANCY SENSOR
- SENSOR SWITCH® nLIGHT® and nWiFi®

OTHER LITHONIA LIGHTING® INDUSTRIAL FLUORESCENT PRODUCTS

- FGB
- FAL
- MSSHB/MS8
- FIB