LITHONIA LIGHTING®

I-BEAM® IBZ

Highly Configurable Fluorescent High Bay.

ENGINEERED
TO PERFORM

LITHONIA LIGHTING®

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.

INSTALLED BY
PREFERENCE

I-BEAM® IBZ
FLUORESCENT HIGH BAY

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.

T-BEAM® IBZ

FLUORESCENT HIGH BAY

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

INSTALLED BY
PREFERENCE

THE MOST CONFIGURABLE PRODUCT

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.
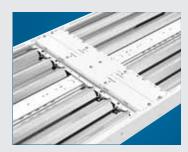

IBZ BACKPACK™ electrical box can be factory-installed to house additional components such as emergency ballasts, step-down transformers and dimming ballasts. Extended brackets allow air flow for increased heat management of all components.

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.

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.

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

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.

IN THE INDUSTRY
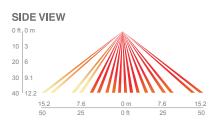
SENSORS & CONTROLS

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.
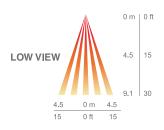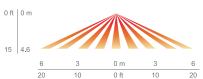
MSI360
360° Lens

HIGH VIEW

0 m	0 ft
3	10
6	20
9.1	30
12.2	40
15.2	50

9.1 | 6 | 3 | 0 m | 3 | 6 | 9.1
30 | 20 | 10 | 0 ft | 10 | 20 | 30

LOW VIEW

0 ft | 0 m
15 | 4.6

6 | 3 | 0 m | 3 | 6
20 | 10 | 0 ft | 10 | 20

MSI
Aisleway Lens

SIDE VIEW

0 ft | 0 m
10 | 3
20 | 6
30 | 9.1
40 | 12.2

15.2 | 7.6 | 0 m | 7.6 | 15.2
50 | 25 | 0 ft | 25 | 50

TOP VIEW

7 | 2.1
0 ft | 0 m
7 | 2.1

15.2 | 7.6 | 0 m | 7.6 | 15.2
50 | 25 | 0 ft | 25 | 50

MSE360
Embedded 360° Lens

HIGH VIEW

0 m	0 ft
4.5	15
9.1	30
13.7	45

9.1 | 4.5 | 0 m | 4.5 | 9.1
30 | 15 | 0 ft | 15 | 30

LOW VIEW

0 m | 0 ft
4.5 | 15
9.1 | 30

4.5 | 0 m | 4.5
15 | 0 ft | 15

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.

nLIGHT   nWiFi

TAKING THE RISK
OUT OF HIGH-TEMPERATURE ENVIRONMENTS

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.
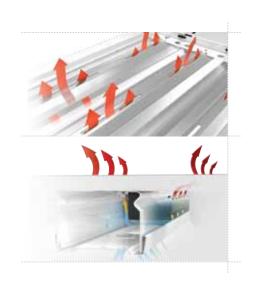

THERMAL MANAGEMENT

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.
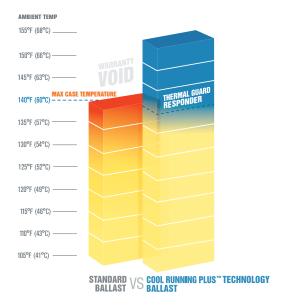
COOL RUNNING +
TECHNOLOGY

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.

POWERED BY
PHILIPS
ADVANCE
QUALITY BALLASTS

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).

AMBIENT TEMP

155°F (68°C)
150°F (66°C)
145°F (63°C)
WARRANTY VOID
140°F (60°C) — MAX CASE TEMPERATURE
135°F (57°C)
130°F (54°C)
125°F (52°C)
120°F (49°C)
115°F (46°C)
110°F (43°C)
105°F (41°C)

THERMAL GUARD RESPONDER

STANDARD BALLAST VS COOL RUNNING PLUS™ TECHNOLOGY BALLAST

IBZ Fluorescent High Bay, T5HO

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

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

Lamp color		Options			
(blank)	F54T5HO/841	GLR	Internal fast-blow fuse[7,8]	**Cord sets:**	**Motion sensors:**
LP835	F54T5HO/835	GMF	Internal slow-blow fuse[7,8]	CS1W Straight plug, 120V[13,14]	MSI Aisle motion sensor, pre-wired[15]
LP850	F54T5HO/850	EL14	Emergency battery pack[7,9,10]	CS3W Twist-lock, 120V[13,14]	MSI360 360° motion sensor, pre-wired[15]
Amalgam lamps[6]		EL14SD	Emergency battery pack w/ self-diagnostics[7,9,10]	CS7W Straight plug, 277V[13,14]	MSE360 360° motion sensor, embedded[7,16]
LP841A	F54T5HO/841	I162	1250 lumens per lamp battery[9,10,11]	CS11W Twist-lock, 277V[13,14]	MSE360LB 360° motion sensor, embedded[7,17]
LP835A	F54T5HO/835	OUTCTR	Wiring leads pulled through back center of fixture[3]	CS25W Twist-lock, 347V[13,14]	XP1 XPoint single relay[18]
LP850A	F54T5HO/850	OCS	RELOC® OnePass® 5' installed[7]	CS97W Twist-lock, 480V[13,14]	XP2 XPoint double relay[18]
Energy-saving 49W lamps		IMP	Integrated modular plug[12,23]	CS93W 600 SO white cord, no plug (no voltage required)[13,14]	nMSI nLight, aisle motion sensor, pre-wired[7]
P841E49	F54T5HO/841	FSP	Integral full side panels		nMSI360 nLight enabled, 360° motion sensor, pre-wired[7]
P835E49	F54T5HO/835	PBTSKT	Polybutylene terephthalate sockets	**Wire guards:**	
P850E49	F54T5HO/850	HBBSIC	Chain hanger (pair)	WGX External wire guard installed	
		HBBS36IC	Chain hanger with 36" chain (pair)	2WGX External wire guard installed on bottom of fixture[19]	

Accessories: *Order as separate catalog number.*

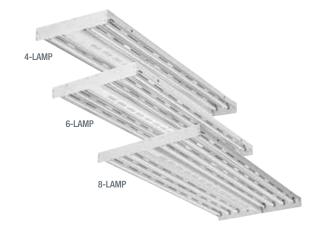| Mounting:		Field-installable door and lens assemblies:[21,22]		Cord sets and sensors for IMP option:		Wire guards:	
IBAC120 M20	Aircraft cable 10' with hook (one pair)	DLIBZ14 A12125	4-lamp pattern 12 acrylic lens, 0.125" [21,22]	CS1WIMP	Straight plug, 120V[7,13,14]	WGIBZ14	Standard 4-lamp wire guard
IBAC240 M20	Aircraft cable 20' with hook (one pair)	DLIBZ14 ACL	4-lamp clear acrylic lens [21,22]	CS3WIMP	Twist-lock, 120V[7,13,14]	WGIBZ19	Standard 6-lamp wire guard
IBHMP	Hook monopoint	DLIBZ14 PCL125	4-lamp clear polycarbonate lens, 0.125" [21,22]	CS7WIMP	Straight plug, 277V[7,13,14]	WGIBZ24	Standard 8-lamp wire guard
IBZACVH	Aircraft 10' V hanger (one pair)	DLIBZ19 A12125	6-lamp pattern 12 acrylic lens, 0.125"[21,22]	CS11WIMP	Twist-lock, 277V[7,13,14]		
IBZTFC	Tandem coupler and side panel	DLIBZ19 ACL	6-lamp clear acrylic lens [21,22]	CS25WIMP	Twist-lock 347V		
IBZPMP	Pendant monopoint splice box, includes side covers[20]	DLIBZ19 PCL125	6-lamp clear polycarbonate lens, 0.125" [21,22]	CS93WIMP	600V SO white cord, no plug (no voltage required) [13]		
IBZPMPHB	Pendant monopoint splice box, includes side covers (3/4" hub)[20]	DLIBZ24 ACL	8-lamp clear acrylic lens [21,22]	CS97WIMP	Twist-lock 480V		
HBBS36	Chain hanger, 36" (one pair)	DLIBZ24 PCL125	8-lamp clear polycarbonate lens, 0.125" [21,22]	MSIIMP	Aisle sensor[7,23]		
IBZSMB	Surface-mounting bracket (one pair)			MSI360IMP	360° sensor[7,23]		

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 wire guard in door frame, add "WG" to shielding. Ex: A12125WG.
5. Nonstandard configurations may require factory installed BACKPACK™. Consult factory.
6. Not for use with motion sensors.
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 IBZ PMP or IBZ PMPHB. 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.
14. Cord sets are voltage specific. Specify voltage. Other configurations available. Consult factory.
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.

4-LAMP

6-LAMP

8-LAMP

IBZ Fluorescent High Bay, T8

Series	Lamp type		Distribution		Shielding[2]		Voltage		Ballast configuration	
IBZ *For tandem double-length unit, add prefix "T". Ex: TIBZ*	Lamps installed[1]		(blank) NDU	Narrow distribution, ≤5% uplight Narrow distribution, enhanced uplight, ≤13% uplight	(blank) A12125	No shielding Pattern 12 acrylic, 0.125" [3]	(blank)	MVOLT; 120-277V	(blank)	Standard configuration
	432L	4-lamp 32W T8			ACL	Clear acrylic, 0.125" [3]				
	632L	6-lamp 32W T8	WD	Wide distribution, ≤5% uplight	PCL125	Clear polycarbonate, 0.125" [3]				
	832L	8-lamp 32W T8	WDU	Wide distribution, enhanced uplight, ≤13% uplight						
	Unlamped									
	432	4-lamp 32W T8								
	632	6-lamp 32W T8								
	832	8-lamp 32W T8								

Ballast		Lamp color		Options					
(blank)	T8 electronic, instant start, 1.15-1.20 BF	(blank) LP835 LP850	F32T8/841 F32T8/835 F32T8/850	GLR GMF EL14 EL14SD	Internal fast-blow fuse[4,5] Internal slow-blow fuse[4,5] Emergency battery pack [4,6,7] Emergency battery pack w/ self-diagnostics[4,6,7]	**Cord sets:** CS1W CS3W CS7W CS11W CS25W CS97W CS93W	Straight plug, 120V[11,12] Twist-lock, 120V[11,12] Straight plug, 277V[11,12] Twist-lock, 277V[11,12] Twist-lock, 347V[11,12] Twist-lock, 480V[11,12] 600 SO white cord, no plug (no voltage required)[11]	**Motion sensors:** MSI MSI360 MSE360 MSE360LB XP1 XP2 nMSI nMSI360	Aisle motion sensor, pre-wired[13] 360° motion sensor ,pre-wired[13] 360° motion sensor ,embedded[14] 360° motion sensor, embedded[15] XPoint single relay[16] XPoint double relay[16] nLight, aisle motion sensor, pre-wired nLight enabled, 360° motion sensor, pre-wired[4]
GEB10IS	T8 electronic ballast, ≤10% THD, instant start, .88 BF			I162	1250 lumens per lamp battery[4,6,8]				
GEB10PS	T8 electronic ballast, ≤10% THD, programmed rapid start, .88 BF			OUTCTR OCS IMP	Wiring leads pulled through back center of fixture[2] RELOC® OnePass® 5' installed[4] Integrated modular plug[9,10]	**Wire guards:** WGX 2WGX	External wire guard installed Dual wire guard for top and bottom protection[17]		
GEB10PSH	T8 electronic ballast, ≤10% THD, programmed rapid start, 1.15-1.20 BF			FSP HBBSIC HBBS36IC	Integral full side panels Chain hanger (pair) Chain hanger with 36" chain (pair)				

Accessories: *Order as separate catalog number.*							

Mounting:		Field-installable door and lens assemblies:[2,19]		Cord sets and sensors for IMP option:		Wire guards:	
IBAC120 M20	Aircraft cable 10' with hook (one pair)	DLIBZ14 A12125	4-lamp pattern 12 acrylic lens, 0.125" [2,19]	CS1WIMP	Straight plug, 120V[11,12]	WGIBZ14	Standard 4-lamp wire guard
IBAC240 M20	Aircraft cable 20' with hook (one pair)	DLIBZ14 ACL	4-lamp clear acrylic lens [2,19]	CS3WIMP	Twist-lock, 120V[11,12]	WGIBZ19	Standard 6-lamp wire guard
IBHMP	Hook monopoint	DLIBZ14 PCL125	4-lamp clear polycarbonate lens, 0.125" [2,19]	CS7WIMP	Straight plug, 277V[11,12]	WGIBZ24	Standard 8-lamp wire guard
IBZACVH	Aircraft 10' V hanger (one pair)			CS11WIMP	Twist-lock, 277V[11,12]		
IBZTFC	Tandem coupler and 8' side panel	DLIBZ19 A12125	6-lamp pattern 12 acrylic lens, 0.125"[2,19]	CS25WIMP	Twist-lock, 347V		
IBZPMP	Pendant monopoint splice box, includes side covers[18]	DLIBZ19 ACL	6-lamp clear acrylic lens [2,19]	CS93WIMP	600V SO white cord, no plug (no voltage required)[11]		
IBZPMPHB	Pendant monopoint splice box, includes side covers (3/4" hub)[18]	DLIBZ19 PCL125	6-lamp clear polycarbonate lens, 0.125" [2,19]	CS97WIMP	Twist-lock, 480V		
HBBS36	Chain hanger, 36" (one pair)	DLIBZ24 ACL	8-lamp clear acrylic lens [2,19]	MSIIMP	Aisle sensor[10,20]		
IBZSMB	Surface-mounting bracket (one pair)	DLIBZ24 PCL125	8-lamp clear polycarbonate lens, 0.125" [2,19]	MSI360IMP	360° sensor[10,20]		

Notes

1. Lamps installed are F32T8/841 unless otherwise specified.
2. Not available with MSE360 or MSE360LB options.
3. For wire guard in door frame, add "WG" to shielding. Ex: A12125WG.
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 IBZSMB. 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. Must be factory-installed. Not available on TIBZ 16-lamp configurations.
10. Must have "IMP" power cord to power fixture.
11. All cord sets are 18/3, 6', white.
12. Cord sets are voltage specific. Specify voltage. Other configurations available. Consult factory.
13. Specify voltage; 120, 208, 240, 277, 347 or 480.
14. Recommended for heights of 30-40'. Not available with lensed units. 120, 277 or 347 voltage only.
15. Recommended for heights up to 20'. Not available with lensed units. 120, 277 or 347 voltage only.
16. Contact LC&D for additional system components required.
17. External bottom wire guard factory installed. External top wire guard shipped separately for field installation. Not available with IBZPMP.
18. When ordering IBZPMP, two-ballast configurations are recommended. Ex: 2/2. Not available with tandem units. Not available with any battery pack.
19. Add WG to nomenclature if wire guard is to be installed in door frame, ex: DLIBZ14 A12125WG.
20. 120 or 277 voltage only.

LITHONIA LIGHTING®

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

MS5HB/MS8

FIB

LITHONIA LIGHTING®