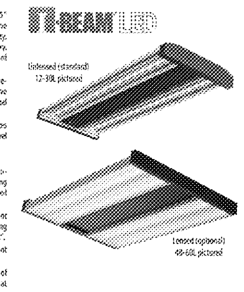
LITHONIA LIGHTING

Catalog Number	FIXTURE “ B”
Notes	
Type	

LED High Bay

IBL

Patent Pending



FEATURES & SPECIFICATIONS

INTENDED USE — Ideal one-for-one replacement of conventional HID and fluorescent high bay systems. Applications include warehousing, manufacturing, gymnasiums, and other large indoor spaces with mounting heights up to 60'. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Lightweight aluminum heat sink designed to perform in ambient temperatures up to 55°C with lower drawdown than fluorescent due to precision thermal engineering to maximize naturally convective cooling. Structural elements such as the channel and end caps are fabricated from steel for maximum rigidity. Hard-coated reflectors, utilizing reflective Alanod® MIRO-5® aluminum, for precise and repeatable photometry. Semi-diffuse lens optional to provide glare control – may be inverted for gloss or matte side down. Wireguard attachment points provided.

OPTICS — Narrow and wide distributions available to meet both horizontal and vertical light level requirements. Reflectors feature precision-formed optics utilizing reflective Alanod® MIRO-5® aluminum to achieve narrow distribution and white polyester powder coat to achieve wide distribution. Semi-diffuse lens optional to provide glare control and LED protection.

ELECTRICAL — L95 at 60,000 hours (only 5% loss) with a predicted life of more than 100,000 hours. Utilizes a 90°C case temperature driver for maximum life at high temperatures. 0.90 power factor and 10kA/10kV level of surge protection is standard. Available in 120-277V or 347-480V input.

0-10V dimming standard for a dimming range of 100% to 10%; dimming source current is 150 microA.

WIRELESS NETWORKING — XPoint™ Wireless technology creates a mesh network to enable communication between fixtures, sensors and wall stations facility-wide. This option provides superior lighting management capabilities including granular control, configuration and custom grouping for increased energy savings.

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 24".

LISTINGS — CSA certified to US and Canadian safety standards. Damp location listed. Suitable for ambient temperatures from -40°F (-40°C) to 131°F (55°C) when suspended 24" from ceiling. Patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-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. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus

*See ordering tree for details

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** IBL 15L WD LP740

Series	Lumens	Distribution	Lens	Voltage	Color temperature
IBL	12L 12,000 lumens 15L 15,000 lumens 24L 24,000 lumens 30L 30,000 lumens[1] 48L 48,000 lumens[1] 60L 60,000 lumens[1]	WD Wide ND Narrow	(blank) No shielding SDI25 Semi-diffuse acrylic	(blank) MVOLT, 120-277V HVOLT 347V-480V 120 120V 277 277V	LP735 70CRI, 3500K CCT LP740 70CRI, 4000K CCT LP750 70CRI, 5000K CCT LP835 80CRI, 3500K CCT LP840 80CRI, 4000K CCT LP850 80CRI, 5000K CCT

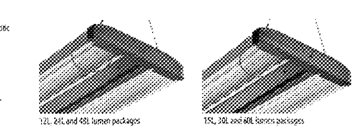
Options	Cord sets	Controls	Finish
GLR Internal fast-blow fuse OUTCTR Wiring leads pulled through back center of fixture DCS RELOC® OnePass® 5' installed IMP Integrated modular plug RRL RELOC®-ready luminaire. See page 5 for ordering information E241Z IOTA emergency LED battery pack for 32°F to 104°F (0°C to 40°C) ambient WGX Standard wire guard, installed	CS1W Straight plug, 120V CS3W Twist-lock, 120V CS7W Straight plug, 277V CS11W Twist-lock, 277V CS25W Twist-lock, 347V CS97W Twist-lock, 480V CS93W 600 SO white cord, no plug (no voltage required)	LCOZU Aisle motion sensor, pre-wired LCHOSZU Aisle motion sensor, pre-wired; programmable dimming LCP2U Aisle motion sensor with photocell; pre-wired LAOZU 360° motion sensor, pre-wired LAHOSZU 360° motion sensor, pre-wired; programmable dimming LAP2U 360° motion sensor with photocell, pre-wired MSE360 360° motion sensor, embedded, high bay MSE360LB 360° motion sensor, embedded, low bay MSI360XPBL DUAL... 360° XPoint wireless motion sensor with photocell LAMOSZU 360 motion sensor, dimming and switching photocell, pre-wired (T24 compliant) LCMOSZU Aisle motion sensor, dimming and switching photocell, pre-wired (T24 compliant) nPP16D nLight® switching/dimming module nMSI nLight® aisle motion sensor, pre-wired nMSI360 nLight® 360° motion sensor, pre-wired nMSD nLight® aisle motion sensor w/dimming, pre-wired nMSI360D nLight® 360° motion sensor w/dimming, pre-wired XPW XPoint™ wireless 0-10V relay	(blank) Gloss white with textured dark gray accents DWH Gloss white

Accessories: Order as separate catalog number		
Mounting: IBACT20 M20 Aircraft cable 10' with hook (one pair) IBAC240 M20 Aircraft cable 20' with hook (one pair) IBHMP Hook monopoint ZACVH Aircraft 10' V hanger (one pair) IBLPMP Pendant monopoint splice box, includes side covers for use with 12-30L IBLPMPHB Pendant monopoint splice box, includes side covers (3/4" hubs) for use with 12-30L IBLPMP4S Pendant monopoint splice box, includes side covers for use with 48L and 60L IBLPMPHB48 Pendant monopoint splice box, includes side covers (3/4" hubs) for use with 48L and 60L HC36 Hanger chain, 36" (one pair) THUN Tong hanger bracket (order 2 per fixture)	**Cord sets and sensors for IMP option:** CS1WIMP Straight plug, 120V CS3WIMP Twist-lock, 120V CS7WIMP Straight plug, 277V CS11WIMP Twist-lock, 277V CS25WIMP Twist-lock 347V CS93WIMP 600V SO white cord, no plug (no voltage required) CS97WIMP Twist-lock 480V MSIIMP Aisle sensor MSI360IMP 360° sensor	**Field-installable door and lens assemblies:** DLIBL SDI25 Semi-diffuse acrylic lens for use 12-30L DLIBL48 SDI25 Semi-diffuse acrylic lens for use with 48L and 60L **Wire guards:** WGIBL Wire guard for use with 12-30L WGIBL48 Wire guard for use with 48L and 60L

See footnotes on next page.

Notes

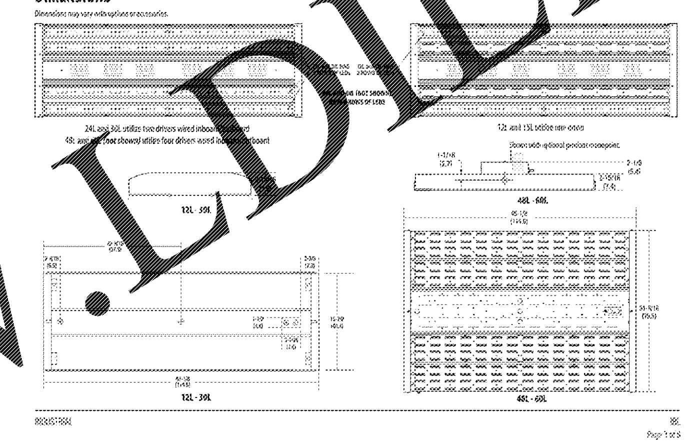
1. Fixtures more than 24" wide can interfere with the operation of some fire sprinkler systems. Verify specific installation requirements with local fire official and insurance carrier. Emergency battery packs are not available with 48L or 60L.
2. Specify voltage.
3. Not available with 347 voltage.
4. Must be factory-installed.
5. Must have "IMP" power cord to power fixture.
6. Requires Reloc RRL compatible cable to power fixture.
7. Must specify voltage 120V or 277V only. Not available with cordset w/plug or OUTCTR option. Not available with 48L or 60L lumen packages.
8. SDI25 lens option recommended when wire guard is used.
9. All cord sets are 16/3, 6', white.
10. Cord sets are voltage-specific. Specify voltage. Other configurations available. Consult factory.
11. Other configurations available; see page four for additional options.
12. Sensors are rated for 14°F(-10°C) to 122°F(50°C) operation.
13. Not available with battery pack. Not field installable.
14. Available 120 or 277V only. Not for use with THUN.
15. nMSI option utilizes a nPP to and a nCMS 50, CAT5e cable also included. Available 120 or 277V only.
16. nMSI360 option utilizes a nPP to and a nCMB 6, CAT5e cable also included. Available 120 or 277V only.
17. nMSID option utilizes a nPP16D and a nCMB 50, CAT5e cable also included. Available 120 or 277V only.
18. nMSI360D option utilizes a nPP16D and a nCMB 6, CAT5e cable also included. Available 120 or 277V only.
19. XPW option utilizes XPA CMRB6.
20. Not for use with 48L or 60L.
21. 95°F (35°C) maximum ambient temperature when using the THUN. Not for use with NPP16D.
22. Must have IMP option on fixture.



To create the 12L, 24L and 48L lumen packages, the PCBA (LED board) is depopulated from the endcaps inward. The first LED is 5-1/2" from the end cap on those units, compared to 1-1/8" on the 15L, 30L and 60L product.

DIMENSIONS

Dimensions may vary with options or accessories.



OPERATIONAL DATA

Lumen package	Ambient rating (120V - 277V)	Ambient rating (347V - 480V)	Distribution	Delivered lumens 70CRI 5000K	Delivered lumens 80CRI 5000K	Lumen multiplier @ 104°F (40°C) ambient temperature	Lumen multiplier @ 104°F (40°C) ambient w/ SDI25 lens kit
12L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	ND	12,492	10,862	0.97	0.88
			WD	12,968	11,276	0.97	0.88
15L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	ND	15,897	13,824	0.97	0.87
			WD	16,500	14,352	0.97	0.87
24L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	ND	24,983	21,725	0.97	0.88
			WD	25,938	22,554	0.97	0.88
30L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	ND	31,798	27,650	0.97	0.87
			WD	33,012	28,706	0.97	0.87
48L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	ND	48,975	43,002	0.97	0.88
			WD	51,876	45,110	0.97	0.87
60L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	ND	63,594	55,300	0.97	0.87
			WD	66,025	57,413	0.97	0.87

CHARACTERISTICS

Lumen package	Wattage 120V	Wattage 277V	Wattage 347V	Wattage 480V	Length	Width	Depth	Weight without Lens	Comparable light source
12L	100	95	98	97	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	12.5 lbs. (5.7 kg)	4-lamp T5HO
15L	125	122	126	125	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	12.5 lbs. (5.7 kg)	4-lamp T5HO, 250W HID
24L	197	192	198	197	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	17.5 lbs. (7.9 kg)	6-lamp T5HO, 400W HID
30L	245	241	248	246	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	17.5 lbs. (7.9 kg)	6-lamp T5HO, 8-lamp T8
48L	394	388	400	396	45 (114.3)	31-1/3 (79.5)	3-1/4 (8.3)	35 lbs. (15.9 kg)	8-lamp T5HO, 750 HID
60L	489	471	485	480	45 (114.3)	31-1/3 (79.5)	3-1/4 (8.3)	35 lbs. (15.9 kg)	10-lamp T5HO, 1000W HID

Dimensions are shown in inches (centimeters) unless otherwise noted.

PROJECTED LUMEN MAINTENANCE

Operating hours	0	10,000	20,000	25,000	35,000	50,000	60,000	75,000	100,000
Lumen maintenance factor	1	0.98	0.98	0.97	0.96	0.95	0.95	0.94	0.93

LUMENS VS. AMBIENT TEMPERATURE

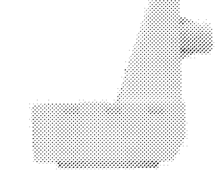
Ambient °C	Ambient °F	Lumen multiplier
0	32	1.02
5	41	1.015
10	50	1.01
15	59	1.008
20	68	1.005
25	77	1
30	86	0.995
35	95	0.985
40	104	0.98
45	113	0.97
50	122	0.965
55	131	0.96

PHOTOMETRICS

See www.lithonia.com.

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 inrush/switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.



LSXR configuration	Comparable nLight sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCP2U	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAP2U	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:** LAHOSZU

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° B Low mount, 360° C High mount aisleway	O None[1] H High/low occupancy operation P Switching photocell (on/off) M Dimming and switching photocell G Dimming and switching photocell with high/low occupancy operation	0 10 VDC 9 9 VDC 8 8 VDC 7 7 VDC	S Minimum dimming level of ballast 1 1 VDC 2 2 VDC 3 3 VDC 4 4 VDC 5 5 VDC 6 6 VDC	Z None Y Low temperature	I 30 seconds D 2.5 minutes X 5 minutes R 7.5 minutes U 10 minutes (with minimum 15 minutes on time) V 15 minutes W 20 minutes 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° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell (on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None Y Low temperature	I 30 seconds D 2.5 minutes X 5 minutes R 7.5 minutes U 10 minutes (with minimum 15 minutes on time) V 15 minutes W 20 minutes Y 30 minutes

Example: LENS 50 J100

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

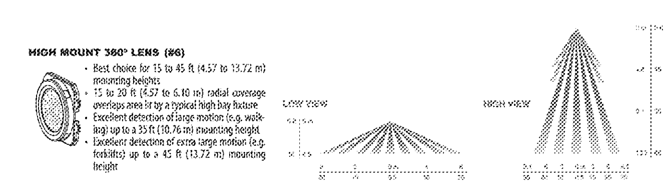
Notes

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

LSXR COVERAGE PATTERNS

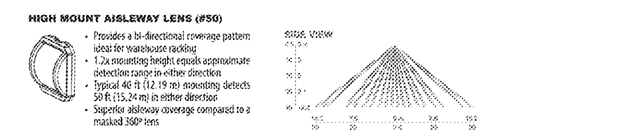
HIGH MOUNT 360° LENS (#6)

- 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
- Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height



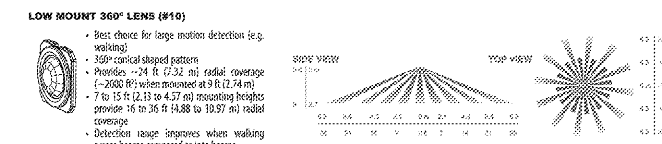
HIGH MOUNT AISLEWAY LENS (#50)

- Provides a bi-directional coverage pattern ideal for warehouse racking
- 1.2x mounting height equals approximate detection range in either direction
- Typical 40 ft (12.19 m) mounting detects 50 ft (15.24 m) in either direction
- Superior aisleway coverage compared to a masked 360° lens

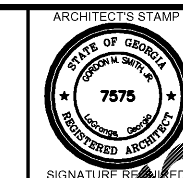


LOW MOUNT 360° LENS (#10)

- Best choice for large motion detection (e.g. walking)
- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft²) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams



ARCHITECT'S STAMP



SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.
201 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
706-882-5511 www.SDGarch.net

REVISIONS		
1	DATE	DESCRIPTION

PROJECT:

VERNON ROAD FIRE STATION

VERNON ROAD
LAGRANGE GEORGIA

TITLE:

LIGHTING FIXTURE CUT-SHEETS

MODIFIED DATE:	JOB NO: 1731
ISSUED DATE: FOR BID AND PERMIT 07 MAY 2018	SHEET: E-10

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