LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

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

CONSTRUCTION — Die-formed aluminum alloy chassis with integrated fins for superior cooling through natural convection. The channel is made of heavy-duty code gauge (20-gauge) steel which is powder coated after fabrication. The assembly is rigidly designed to resist twisting and bowing. Access plate on the back of the channel housing allows quick and easy wiring.

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. Semi-diffuse lens optional to provide glare control and LED protection.

ELECTRICAL — 89% lumen maintenance at 60,000 hours; predicted life of more than 100,000 hours. Thermally protected driver standard with 0-10V dimming.

LISTINGS — CSA Certified to U.S. and Canadian safety standards. Damp location listed. Suitable for ambient temperatures from -40°F (-40°C) to 131°F (55°C). Patent pending. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms__and_conditions.aspx

Actual performance may differ as a result of end-user environment and application.

Actual wattage may differ by +/-1% when operating between 120-277V +/-10%.

Note: Specifications subject to change without notice.

T-BEAM® LED

LED High Bay

IBL

Unlensed (standard)
9-24L pictured

Patent Pending

Lensed (optional)
36-48L pictured

LED DLC

ORDERING INFORMATION

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

Example: IBL 18L WD LP740 DLC

IBL						
Series	**Lumens**		**Distribution**	**Lens**	**Voltage**	**Color temperature**
IBL	9L 9,000 lumens 12L 12,000 lumens 18L 18,000 lumens	24L 24,000 lumens 36L 36,000 lumens[1] 48L 48,000 lumens[1]	WD Wide ND Narrow	(blank) No shielding SD125 Semi-diffuse acrylic	(blank) MVOLT; 120-277V HVOLT 347V-480V 120 120V 277 277V	LP740 DLC 70 CRI, 4000K CCT LP750 DLC 70 CRI, 5000K CCT LP740 70 CRI, 4000K CCT LP750 70 CRI, 5000K CCT

Options						**Finish**	
GLR	Internal fast-blow fuse[2,3]	**Cord sets:[8]**		**Motion sensors :**		(blank)	Gloss white with textured dark gray accents
OUTCTR	Wiring leads pulled through back center of fixture	CS1W	Straight plug, 120V[9]	MSIPED	Aisle motion sensor, photo sensor, pre-wired[2]	DWH	Gloss white
OCS	RELOC® OnePass® 5' installed[2]	CS3W	Twist-lock, 120V[9]	MSI360PED	360° motion sensor, photo sensor, pre-wired[2]		
IMP	Integrated modular plug[4,5]	CS7W	Straight plug, 277V[9]	MSI	Aisle motion sensor, pre-wired[2]		
I2412	IOTA emergency LED battery pack for 32°F to104°F (0°C to 40°C) ambient[6,7]	CS11W	Twist-lock, 277V[9]	MSI360	360° motion sensor, pre-wired[2]		
		CS25W	Twist-lock, 347V[9]	MSID	Aisle motion sensor, pre-wired, programmable dimming control[2,10]		
		CS97W	Twist-lock, 480V[9]	MSI360D	360° motion sensor, pre-wired, programmable dimming control[2,10]		
SPD	Surge protector[2]	CS93W	600 SO white cord, no plug (no voltage required)	MSE360	360° motion sensor, embedded, high bay[2,11]		
WGX	Standard wire guard, installed			MSE360	360° motion sensor, embedded, low bay[2,11]		
				NMSI	nLight, aisle motion sensor, pre-wired[2]		
				NMSI360	nLight enabled, 360° motion sensor, pre-wired[2]		
				nEPP5D	nLight dimming module[2,12]		
				nSP5D	nLight dimming module[13]		

Accessories: *Order as separate catalog number.*

Mounting:		Cord sets and sensors for IMP option:		Field-installable door and lens assemblies:	
IBAC120 M20	Aircraft cable 10' with hook (one pair)	CS1WIMP	Straight plug, 120V[8,9,15]	DLIBL SD125	Semi-diffuse acrylic lens for use 9L - 24L
IBAC240 M20	Aircraft cable 20' with hook (one pair)	CS3WIMP	Twist-lock, 120V[8,9,15]	DLIBL48 SD125	Semi-diffuse acrylic lens for use with 36L and 48L
IBHMP	Hook monopoint	CS7WIMP	Straight plug, 277V[8,9,15]		
ZACVH	Aircraft 10' V hanger (one pair)[7]	CS11WIMP	Twist-lock, 277V[8,9,15]	Wire guards:	
IBLPMP	Pendant monopoint splice box, includes side covers for use with 9L-24L	CS25WIMP	Twist-lock 347V[8,9,15]	WGIBL	Wire guard for use with 9L - 24L
IBLPMPHB	Pendant monopoint splice box, includes side covers (3/4" hub)for use with 9L-24L	CS93WIMP	600V SO white cord, no plug (no voltage required)[8,15]	WGIBL48	Wire guard for use with 36L and 48L
IBLPMP48	Pendant monopoint splice box, includes side covers for use with 36L and 48L	CS97WIMP	Twist-lock 480V[8,9,15]		
IBLPMPHB48	Pendant monopoint splice box, includes side covers (3/4" hub) for use with 36L and 48L	MSIIMP	Aisle sensor[5,15]		
HC36	Hanger chain, 36"[7]	MSI360IMP	360° sensor[5,15]		
THUN	Tong hanger bracket (one pair)[7,14]				

See footnotes on page 2.

IBL LED High Bay

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 36L or 48L.

2   Specify voltage.

3   Not available with 347 voltage.

4   Must be factory-installed.

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

6   Must specify voltage. 120V or 277V only. Not available with cordset w/plug or OUTCTR option.

7   Not available with 36L or 48L lumen package. When using THUN option maximum ambient temperature is 35°C.

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

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

10 After 7.5 minutes, the luminairie will dim to 10%, then after an additional 2.5 minutes, the luminairie will turn off. The controls are field programmable in many configurations. Contact Lithonia tech support for custom programming from factory.

11 Not available with battery pack. Not field installable.

12 Consult factory for dimming of 208, 347 or 480V fixtures.

13 Requires bus power such as nPP16 power pack from Sensor Switch.

14 95°F (35°C) maximum ambient temperature when using the THUN.

15 Must have IMP option on fixture.
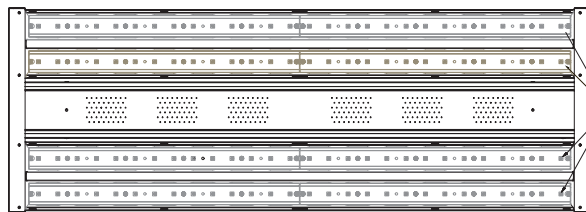
9L, 18L, and 36L lumen packages

12L, 24L, and 48L lumen packages

To create the 9L, 18L, and 36L 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 12L, 24L, and 48L product.
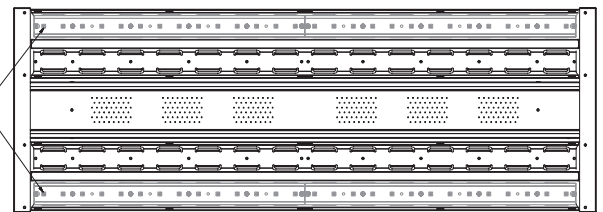
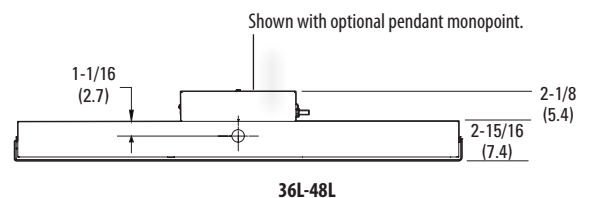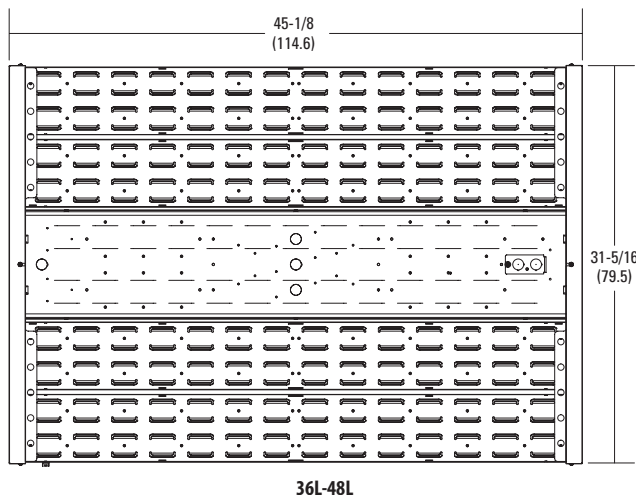## DIMENSIONS

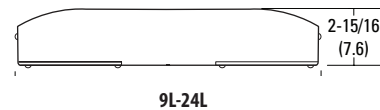Dimensions may vary with options or accessories.

24L & 18L HAS 4 ROWS OF LEDs

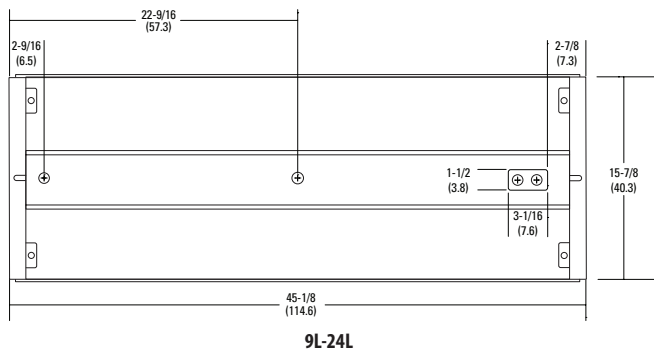12L & 9L HAS 2 ROWS OF LEDs

36L AND 48L (NOT SHOWN) HAVE 8 ROWS OF LEDS

18L, and 24L utilize two drivers wired inboard/outboard
36L and 48L *(not shown)* utilize four drivers wired inboard/outboard

9L and 12L utilize one driver

22-9/16 (57.3)

2-9/16 (6.5)

2-7/8 (7.3)

1-1/2 (3.8)

15-7/8 (40.3)

3-1/16 (7.6)

45-1/8 (114.6)

9L-24L

2-15/16 (7.6)

9L-24L

45-1/8 (114.6)

31-5/16 (79.5)

36L-48L

Shown with optional pendant monopoint.

1-1/16 (2.7)

2-1/8 (5.4)

2-15/16 (7.4)

36L-48L

IBL LED High Bay

OPERATIONAL DATA

Lumen Package	Ambient Rating (120V - 277V)	Ambient Rating (347V / 480V)	Distribution	Delivered Lumens 5000K CCT @ 77°F (25°C) Ambient Temperature	Delivered Lumens 4000K CCT @ 77°F (25°C) Ambient Temperature	Lumen Multiplier @ 104°F (40°C) Ambient Temperature	Lumen Multiplier @ 104°F (40°C) Ambient w/SD125 Lens Kit
9L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	10,308	10,263	0.98	0.846
			ND	10,070	10,027	0.98	0.924
12L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	12,906	12,850	0.98	0.846
			ND	12,609	12,554	0.98	0.924
18L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	20,355	20,267	0.98	0.846
			ND	19,886	19,800	0.98	0.924
24L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	25,328	25,218	0.98	0.846
			ND	24,744	24,637	0.98	0.924
36L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	40,368	40,193	0.98	0.846
			ND	43,084	42,898	0.98	0.924
48L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	50,134	49,916	0.98	0.846
			ND	53,508	53,276	0.98	0.924

CHARACTERISTICS

Lumen Package	Wattage				Length	Width	Depth	Weight without Lens (Lens kit adds approx. 7 lbs.)	Comparable Light Source
	120V	277V	347V	480V	Dimensions are shown in inches (centimeters) unless otherwise noted.				
9L	100	95	98	97	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	12.5 lbs. (5.7 kg)	2-lamp T5HO
12L	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 T8, 250W HID
18L	197	192	198	197	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	17.5 lbs. (7.9 kg)	4-lamp T5HO, 6-lamp T8, 400W HID
24L	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
36L	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
48L	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

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	0.96	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.

SENSORS AND CONTROLS

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

MSI360
360° Lens

MSI
Aisleway Lens

MSE360
Embedded 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 |

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 |

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 ft	0 m
15	4.6

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

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 |

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 CMRB 6 open-area sensor has 360° coverage and can be integrated with a photocell (PE) for further energy savings.

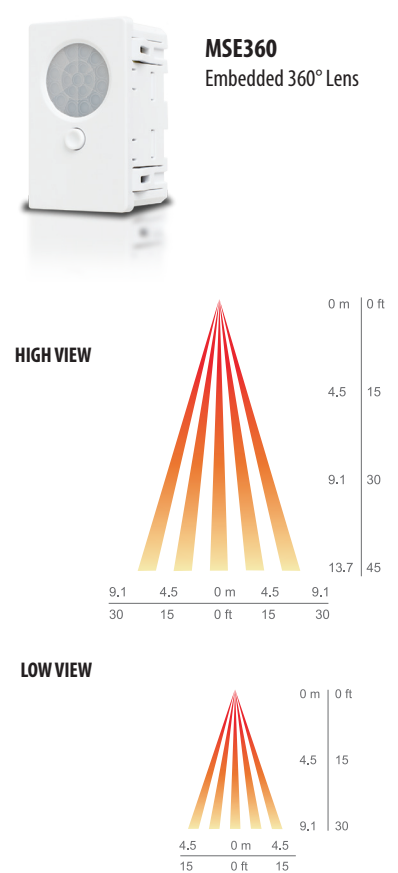**Mounting Location:** End Plate

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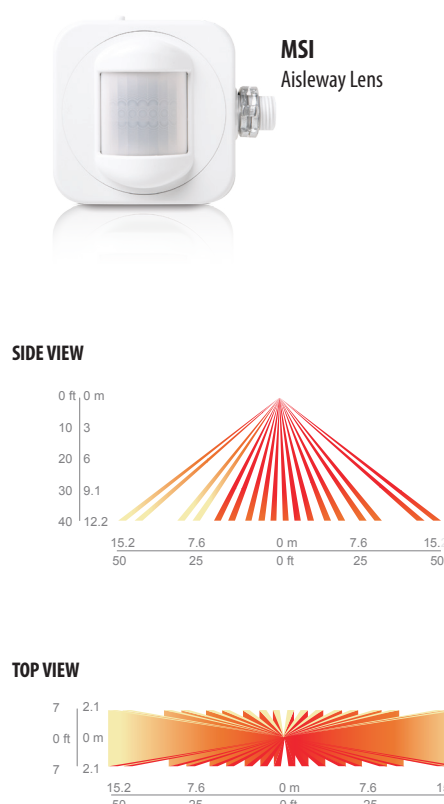
MSI: The Sensor Switch CMRB 50 aisleway sensor offers a dedicated sensor and extended range, compared to competitive products.

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 fixture, 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.

OPTIONS AND ACCESSORIES

The I-BEAM LED fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.

REFLECTORS
Wide distribution is formed with 93% reflective white paint. Narrow distribution is formed with Alanod® MIRO®.

INTEGRATED ELECTRICAL OPTIONS
Channel sized to accept emergency components, surge protector, fusing and embedded sensors.

WIRE GUARD (external)
Field- or factory-installed. Protects light engine from impact. Mounting hardware included.

Factory-installed option:
WGX

Field-installed options:
WGIBL
WGIBL48

DIFFUSER
Field- or factory-installed. Available in semi-diffuse acrylic. Mounting hardware included.

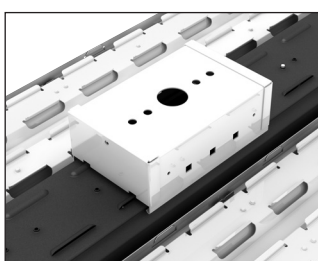Factory-installed option:
SD125

Field-installed option:
DLIBL SD125
DLIBL48 SD125

EMBEDDED OCCUPANCY SENSOR
Can be placed in the channel cover which reduces the risk of sensor damage compared to non-embedded sensors.
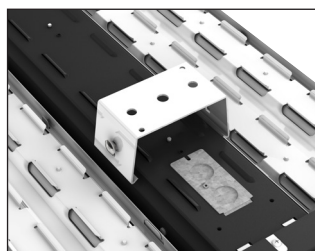
Factory-installed option:
MSE360

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.
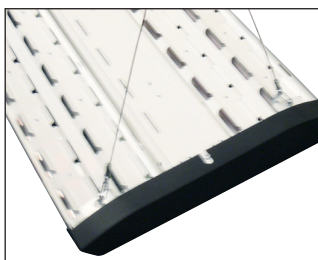
Order as:
IBLPMP
IBLPMPHB
IBLPMP48
IBLPMPHB48

SURFACE MOUNT BRACKET
Rigidly attach I-BEAM LED to a hard ceiling. Can be placed anywhere along fixture.
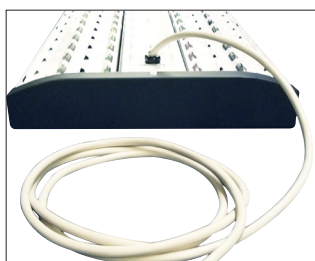
Order as:
THUN (not for use in ambient temperatures exceeding 95°F (35°C), or on the 36L or 48L)

HANGERS
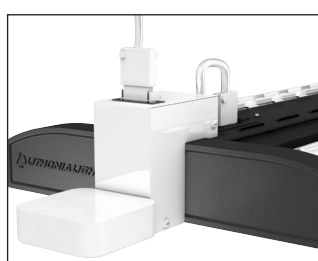Several lengths of aircraft cables and chains available; with or without V-hooks.

Order as:
IBAC120 M20
IBHMP
For others, see accessories on page 1.

CORD SETS
Available in several lengths with or without molded plug. White is standard.

For available options, see ordering information on page 1.

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 X-point™ relays.

*An ◢Acuity*Brands Company