



# I-BEAM® LED

The Top Choice For Your Bottom Line.

# THE TOP CHOICE FOR GENERATIONS



For more than 60 years, Lithonia Lighting has delivered high-quality, reliable lighting solutions to an ever-changing market. We have leveraged this experience to develop innovative lighting technologies that meet growing consumer demands for efficiency, reliability, positive environmental impact and customization.

Lithonia Lighting products deliver peak performance, exceptional aesthetics, simple installation and easy maintenance. As a result, our products are among the most preferred on the market.

Since its launch in 2005, the I-BEAM® system has likewise become the most widely used and specified high bay in the industry, offering energy savings, value and performance that cannot be matched by traditional HID lighting.





## MORE BANG FOR THE BUCK.

The I-BEAM LED (IBL) fixture gives the marketplace an extremely configurable yet affordable LED solution that is a one-for-one replacement of fluorescent and HID systems. It offers numerous options and accessories to truly customize the luminaire for its intended space. Paying for itself in as little as two years against fluorescent, it also pays out dividends for years to come.

The I-BEAM LED luminaire represents the best of our LED technologies and our most popular high bay product. The result is a high-performance, quality, configurable LED luminaire that is ideal for a wide range of high bay applications.

### FEATURES

- Quick return on investment
- Better illumination
- Long, reliable life
- Significant energy savings
- Compatible with controls

### TYPICAL APPLICATIONS

Ideal for large indoor spaces with mounting heights up to 60' and ambient temperatures up to 131°F (55°C). Common applications include warehousing, manufacturing, gymnasiums, convention centers, aircraft hangers and other large indoor spaces.

# THE TOP CHOICE FOR YOUR BOTTOM LINE

## ADVANCED OPTICS

Narrow and wide distributions available in 9000-48,000 lumen packages which replace up to 10-lamp T5HO and 1000W HID. Reflectors feature precision-formed optics utilizing premium materials.

## DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCT

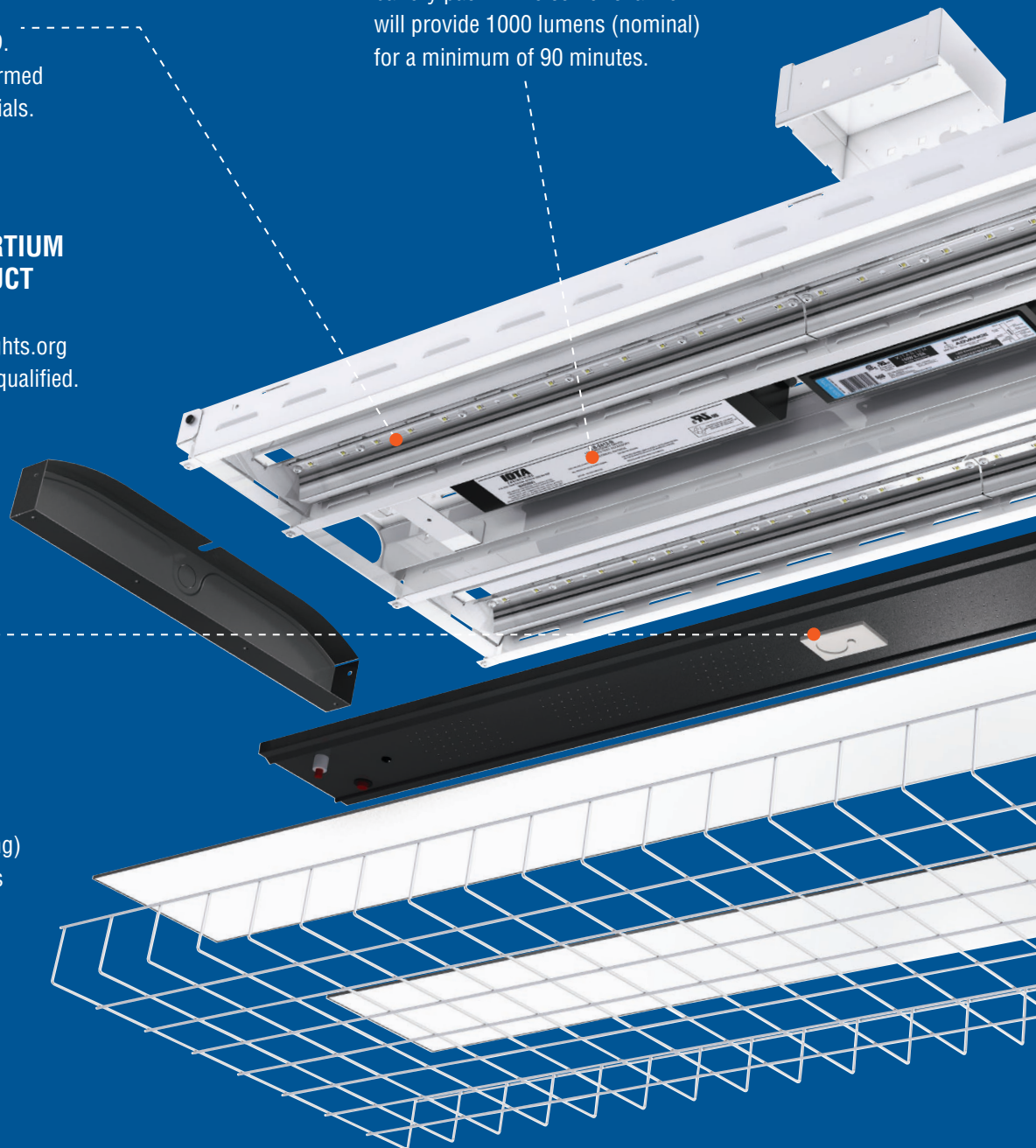
Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

## CONTROLS

Optional integrated controls (XPoint™, XPoint Wireless and nLight®) and sensor options (occupancy, photo and dimming) extends fixture life and reduces energy costs.

## EMERGENCY BATTERY PACK

Optional factory-installed emergency battery pack in the center channel will provide 1000 lumens (nominal) for a minimum of 90 minutes.





# T-BEAM<sup>®</sup> LED

## **DIMMING**

Drivers come standard with 0-10V dimming leads capable of variable dimming down to 10%.

## **FINISHES**

Standard fixture is two-toned with a white body and textured dark gray channel and end caps. An all-white version is optional.

## **GLARE CONTROL**

An optional semi-diffuse acrylic lens is available to cover the emitters and reflectors. Factory- or field-installed.

## **WIRE GUARD**

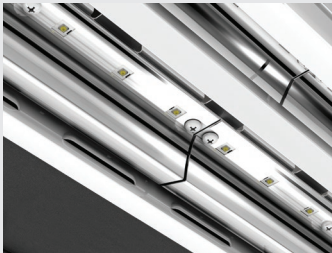
Optional wire guard protects fixture from environmental hazards. Factory- or field-installed.

Fixture shown represents 9L-24L models.



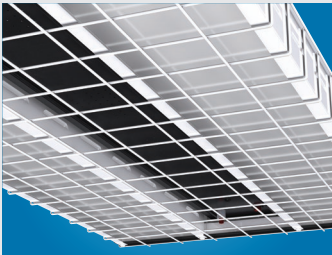
# UNMATCHED CONFIGURABILITY

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®.



## WIRE GUARD (external)

Protects light engine from impact. Mounting hardware included. Factory- or field-installed.



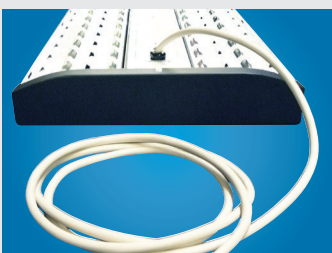
## EMBEDDED OCCUPANCY SENSOR

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



## SURFACE MOUNT BRACKET

Rigidly attach I-BEAM LED to a hard ceiling. Can be placed anywhere along fixture. Available with 9L-24L fixtures only.



## CORD SETS

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



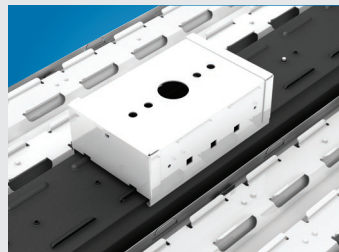
## INTEGRATED ELECTRICAL OPTIONS

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



## LENS

Available in semi-diffuse acrylic. Mounting hardware included. Factory- or field-installed.



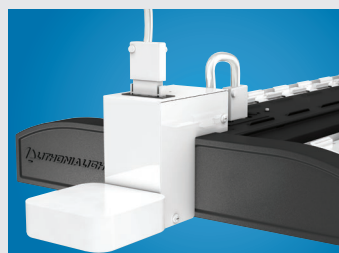
## PENDANT MONOPOINT BRACKET

Accepts 3/4" rigid conduit for single-point mounting. The bracket can be adjusted to help counterbalance fixture to offset weight variance from end to end.



## HANGERS

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



## INTEGRATED MODULAR PLUG (IMP)

Must be factory-installed and allows for field installation of various modular accessories including cordsets, motion sensors, photo sensors and XPoint™ relays.

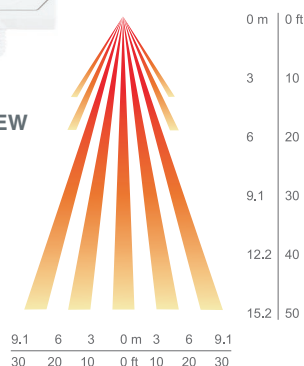
# SENSORS & CONTROLS

Sensors are an excellent way to maximize the return on your high bay lighting investment. **I-BEAM LED** fixtures can be equipped with integrated controls and sensor options to extend fixture life and reduce energy costs. These devices are factory-installed and require minimal labor to set up during fixture installation.

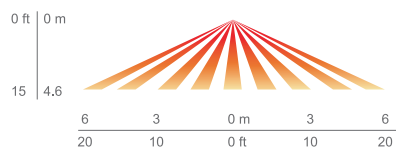


**High Mount**  
**360° Lens**

**HIGH VIEW**



**LOW VIEW**



## **6 Lens:** High Mount 360°

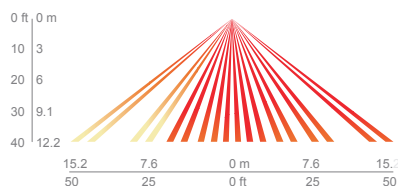
### **Mounting Location:** End Plate

- 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
- 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

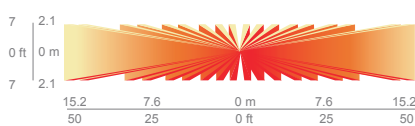


**High Mount**  
**Aisleway Lens**

**SIDE VIEW**



**TOP VIEW**



## **50 Lens:** High Mount Aisleway

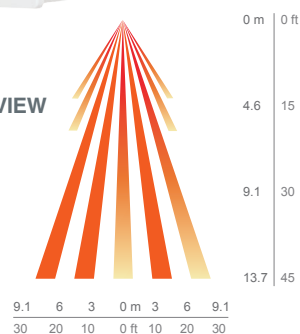
### **Mounting Location:** End Plate

- Provides 50° bi-directional and 10° wide coverage pattern
- 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

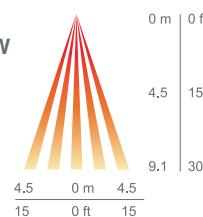


**High Mount**  
**Embedded 360° Lens**

**HIGH VIEW**



**LOW VIEW**



## **MSE360:** High Mount Open Area

### **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.

## **Increase your R.O.I. with Controls**

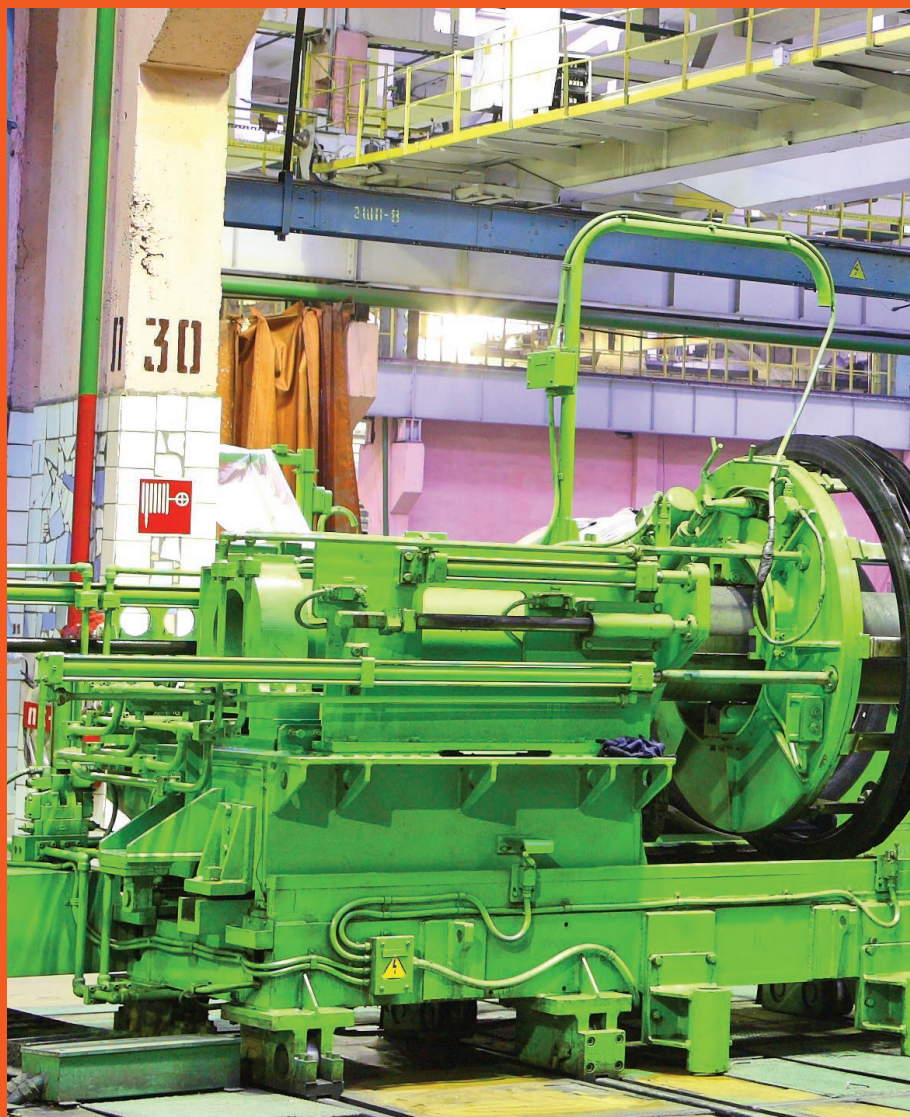
Optional XPoint™ Wireless controls technology creates a mesh network that communicates between fixtures, sensors and wall stations facility-wide. This option provides superior lighting management capabilities including granular control that can light zones differently depending on the time of day, season and special event.



# PERFORMANCE YOU CAN TRUST

## ELECTRICAL

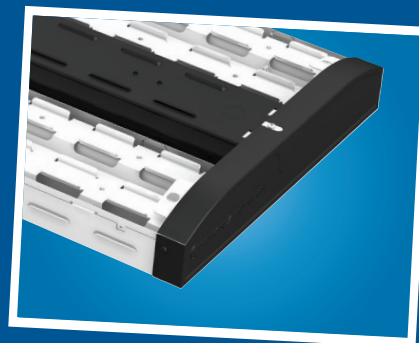
The I-BEAM LED features a state-of-the-art electrical system. I-BEAM LED is powered by a >90% efficient Class 1 driver achieving an advantage over comparable Class 2 systems. At the heart of this innovation is a multi-layer printed circuit board in which the power is enclosed allowing direct contact with the heat sinks.



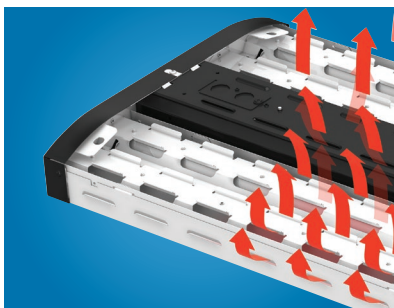
## MECHANICAL

I-BEAM LED is fabricated with a mixture of steel and aluminum components resulting in a rigid assembly with an average weight of 15 pounds for 9L-24L models and 35 pounds for 36L-48L models.\* Rigidity comes from the use of thread-forming fasteners to attach all interlocking components. The chassis is corrugated with an external flange that resists deformation through handling. The channel is captured by both end frames which significantly reduces bowing and twisting.

\*Weight of unlensed fixtures. Lens kit adds approximately 7 pounds.







## THERMAL MANAGEMENT

The I-BEAM LED intelligently blends conduction and natural convection to maximize cooling and reduce weight. Heat is transferred into the reflectors from the face of the printed circuit board and into the fins from the base of the circuit board. All finned components are oriented to maximize buoyant convection. The design and placement of all surfaces and heat-generating parts were optimized using computational fluid dynamics. Rated for up to 131°F (55°C) ambient at full power.



## OPTICAL

I-BEAM LED is assembled with die-formed reflectors for precise horizontal and vertical control. Two optical choices are ideal for aisles or open spaces with mounting heights up to 60'. Several lumen and distribution packages are offered on a one-for-one performance replacement of fluorescent and HID high bay lighting. DesignLights Consortium® (DLC) qualified product. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

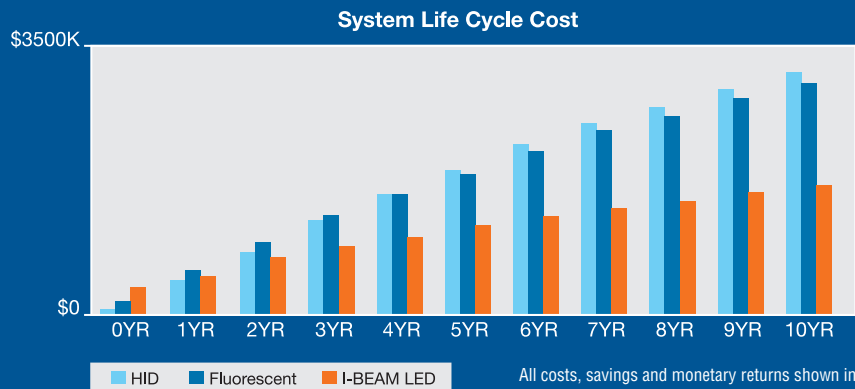
# THE BOTTOM LINE

## YOUR RETURN ON INVESTMENT

The I-BEAM LED high bay was designed to not only deliver a fast payback, but to achieve a high return on investment by continuing to pay out dividends over the life of the fixture.

To see the total cost of operation for each of the lumen packages, review the bar charts based on 10-year life cycle at 24 hours/day and equivalent footcandles.

Save even more by installing occupancy sensors or photosensors. Local and national rebates may also be available.

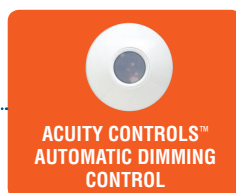


All costs, savings and monetary returns shown in the calculations are estimated results for general information only. Calculations do not include optional controls which will provide additional savings.

HID		Fluorescent		I-BEAM® LED		
						
Configuration	400W HID	Configuration	6-lamp 54WT5HO	Configuration	IBL 24L	
Total Wattage	442	Total Wattage	374	Total Wattage	241	
Life Cycle Cost		Life Cycle Cost		Life Cycle Cost		
\$3,246		\$2,924		\$2,067		
Energy Cost	\$346	Energy Cost	\$293	Energy Cost	\$188	
Energy Use (kWh)	3,872	Energy Use (kWh)	3,276	Energy Use (kWh)	2,111	
Annual Operating Cost	\$564	Annual Operating Cost	\$504	Annual Operating Cost	\$294	
Annual Operating Savings	--	Annual Operating Savings	\$61	Annual Operating Savings	\$270	
Simple Payback (years)	--	Simple Payback (years)	0.02	Simple Payback (years)	1.28	
Life Cycle Return on Investment	--	Life Cycle Return on Investment	171.1%	Life Cycle Return on Investment	248.7%	
System Cost	Baseline Cost		Savings Over Baseline		Savings Over Baseline	
	Ballast	\$25	Ballast	-60%	Ballast	0%
	Energy	\$2,630	Energy	15%	Energy	45%
	Disposal	\$8	Disposal	-238%	Disposal	50%
	HVAC	\$117	HVAC	15%	HVAC	45%
	Lamps	\$30	Lamps	-308%	Lamps	-60%
Sustainability	Baseline Cost		Savings Over Baseline		Savings Over Baseline	
	Energy Use (kWh)	38,719	Savings (kWh)	5,957	Savings (kWh)	17,608
	CO <sub>2</sub> Emissions (tons CO <sub>2</sub> )	26.70	Savings (tons CO <sub>2</sub> )	4.11	Savings (tons CO <sub>2</sub> )	12.14
	SO <sub>2</sub> Emissions (tons SO <sub>2</sub> )	0.10	Savings (tons SO <sub>2</sub> )	0.01	Savings (tons SO <sub>2</sub> )	0.04
	NO <sub>x</sub> Emissions (tons NO <sub>x</sub> )	0.00	Savings (tons NO <sub>x</sub> )	0.00	Savings (tons NO <sub>x</sub> )	0.00
	Equivalent CO <sub>2</sub> Emissions		Equivalent CO <sub>2</sub> Reduction		Equivalent CO <sub>2</sub> Reduction	
	Annual Energy (homes)	2.32	Trees Planted (seedlings)	105.44	Trees Planted (seedlings)	311.65
	Annual Exhaust (cars)	5.23	Pine Forest (acres)	0.88	Pine Forest (acres)	2.59



## INTEGRATE DAYLIGHTING & CONTROLS WITH I-BEAM® LED



## OTHER LITHONIA LIGHTING® INDUSTRIAL LED PRODUCTS

