

SYLVANIA Luminaires

Linear High Bay



Product Features

The Linear High Bay luminaires are environmentally preferable LED alternatives to traditional linear fluorescent and HID luminaires, offering up to 66% in energy savings. Ideal in place of traditional luminaires, or as new installations, the Linear High Bay series is offered in four wattages/three lumen packages for use in warehouses, manufacturing facilities, big-box retail, gymnasiums, and loading docks.

The linear design with clear and frosted lens options allows for aisle or wide optics. SYLVANIA luminaires assure optimum light engine performance for extended service and rated life ($\geq 80,000$ hours L_{70}).

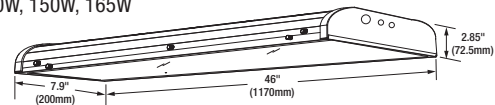
Wattage Comparison Chart

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
4-lamp 32T8	112	100	11%
250W MH	290	100	66%
250W HPS	295	100	66%
4-lamp 54T5HO	220	150	32%
8-Lamp 32T8	224	150	33%
250W MH	290	150	48%
250W HPS	295	150	49%
4-lamp 54T5HO	220	165	25%
8-Lamp 32T8	224	165	26%
250W MH	290	165	43%
250W HPS	295	165	44%
320W MH	370	165	55%
6-Lamp 54T5HO	350	225	36%
320W MH	370	225	39%
400W HPS	460	225	51%
400W MH	450	225	50%

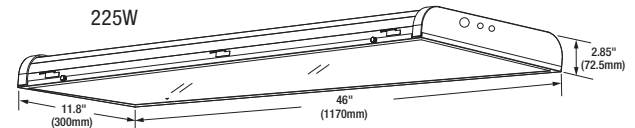
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Dimensions

100W, 150W, 165W



225W



Dimensions are in inches (mm).

Specifications

Weight: 100W: 12.5lbs (5.4kg) 150W/165W: 14lbs (6.4kg) 225W: 18.5lbs (8.4kg)

Construction: Powder coat painted aluminum and UV stabilized polycarbonate lens. The standard color is white.

LED System: LED system with a life rating of $\geq 100,000$ hours (150W) and $\geq 80,000$ hours (100W, 165W, 225W) at L_{70} @25°C. Luminaire efficacy up to 133 LPW.

Electrical: Offered in 100, 150, 165, and 225 Watts, the luminaire is designed to operate through 120-277 voltage. The LED driver has a 4kV inherent surge suppression, is a constant current device and meets UL1310 and UL48 Class 1 with built-in over temperature protection. The power factor is $\geq 90\%$ and THD is $\leq 20\%$.

Dimming: The driver is 0-10V dimmable (down to 10%). Please reference the compatibility document (LEDLUM012).

Color Characteristics: CRI >80 ; CCT of 4000K or 5000K

Optics: Wide distribution with frosted polycarbonate lens (100/165/225W), wide distribution with clear polycarbonate lens (150W) and aisle distribution with clear polycarbonate lens.

Options Available: Microwave Sensor

Installation: Luminaire is suspended via aircraft cable, chain, or v-hook. Pendant option is available. (Aircraft cable and pendant provided by others.) External controls can be added through existing knockouts.

Operating Temperature: -40°F to +131°F (-40°C to +55°C)

Listings: cULus listed to UL1598 standards and for damp locations.

Warranty: Standard 5-year luminaire warranty (LEDLUM001).

Note: Specifications subject to change without notice. IES files available online.



*DLC Premium only applicable to 100W and 150W versions

Ordering Guide

Item Number:

LNHIBA	1A	/	XXX	UNV	D	8	XX	/	X	/	WH	/	X
Product Name	Generation		Wattage	Voltage	Dimming	CRI	Color Temp (CCT)		Optics		Color/Finish		Blank = No option
LNHIBA	1A		100 = 100 Watts*	UNV = 120-277V	D = 0-10V	8 = >80	40 = 4000K		W = Wide distribution		WH = White		D = Motion/
			150 = 150 Watts				50 = 5000K		A = Aisle distribution				Daylighting Sensor*
			165 = 165 Watts										
			225 = 225 Watts										

* Only available as Made To Order (MTO) versions

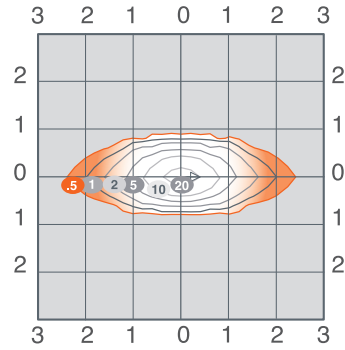
LEDLUM016R8 2-21



Photometric Data

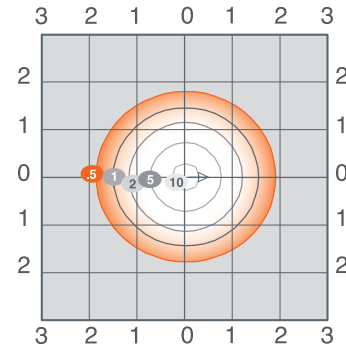
LNHIBA1A/100UNVD840/A/WH

Isofootcandle Lines at 20' Mounting Height



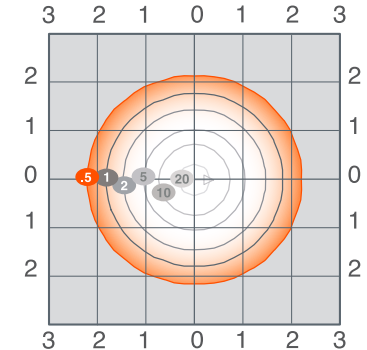
LNHIBA1A/100UNVD840/W/WH

Isofootcandle Lines at 20' Mounting Height



LNHIBA1A/225UNVD840/W/WH

Isofootcandle Lines at 20' Mounting Height



For other wattages apply the following multipliers:

Wattage	100W	150W	165W
Multiplier	1.00	1.5	1.5

*This table applies to the first 2 photometric charts.

For other mounting heights apply the following multipliers:

Mounting Height	15'	18'	20'	22'	25'	30'
Multiplier	1.78	1.23	1.00	0.83	0.64	0.44

*This table applies to all 3 photometric charts.

Ordering Information

Item Number	Ordering Abbreviation*	Power (W)	Input Voltage	Dimming	CRI	Color Temp (CCT)	Lens	Total Fixture Lumens	LPW**	DLC***	Options
74839	LNHIBA1A/100UNVD840/A/WH	100	120-277V	0-10V	>80	4000K	Clear	13,000	127	Std	—
74840	LNHIBA1A/100UNVD850/A/WH	100	120-277V	0-10V	>80	5000K	Clear	13,000	127	Std	—
74837	LNHIBA1A/100UNVD840/W/WH	100	120-277V	0-10V	>80	4000K	Frosted	12,900	127	Std	—
74838	LNHIBA1A/100UNVD850/W/WH	100	120-277V	0-10V	>80	5000K	Frosted	12,900	127	Std	—
74845	LNHIBA1A/150UNVD840/W/WH	150	120-277V	0-10V	>80	4000K	Clear	19,700	133	Prm	—
74846	LNHIBA1A/150UNVD850/W/WH	150	120-277V	0-10V	>80	5000K	Clear	19,700	133	Prm	—
74831	LNHIBA1A/165UNVD840/A/WH	165	120-277V	0-10V	>80	4000K	Clear	18,900	117	Std	—
74832	LNHIBA1A/165UNVD850/A/WH	165	120-277V	0-10V	>80	5000K	Clear	18,900	117	Std	—
74829	LNHIBA1A/165UNVD840/W/WH	165	120-277V	0-10V	>80	4000K	Frosted	18,100	112	—	—
74830	LNHIBA1A/165UNVD850/W/WH	165	120-277V	0-10V	>80	5000K	Frosted	18,100	112	—	—
74823	LNHIBA1A/225UNVD840/A/WH	225	120-277V	0-10V	>80	4000K	Clear	25,300	112	—	—
74824	LNHIBA1A/225UNVD850/A/WH	225	120-277V	0-10V	>80	5000K	Clear	25,300	112	—	—
74821	LNHIBA1A/225UNVD840/W/WH	225	120-277V	0-10V	>80	4000K	Frosted	26,600	117	Std	—
74822	LNHIBA1A/225UNVD850/W/WH	225	120-277V	0-10V	>80	5000K	Frosted	26,600	117	Std	—
74847	LNHIBA1A/150UNVD840/A/WH (MTO)	150	120-277V	0-10V	>80	4000K	Clear	19,100	130	Std	—
74848	LNHIBA1A/150UNVD850/A/WH (MTO)	150	120-277V	0-10V	>80	5000K	Clear	19,100	130	Std	—
74843	LNHIBA1A/100UNVD840/A/WH/D (MTO)	100	120-277V	0-10V	>80	4000K	Clear	13,000	127	Std	Sensor
74844	LNHIBA1A/100UNVD850/A/WH/D (MTO)	100	120-277V	0-10V	>80	5000K	Clear	13,000	127	Std	Sensor
74841	LNHIBA1A/100UNVD840/W/WH/D (MTO)	100	120-277V	0-10V	>80	4000K	Frosted	12,900	127	Std	Sensor
74842	LNHIBA1A/100UNVD850/W/WH/D (MTO)	100	120-277V	0-10V	>80	5000K	Frosted	12,900	127	Std	Sensor
74853	LNHIBA1A/150UNVD840/A/WH/D (MTO)	150	120-277V	0-10V	>80	4000K	Clear	19,100	130	Std	Sensor
74905	LNHIBA1A/150UNVD850/A/WH/D (MTO)	150	120-277V	0-10V	>80	5000K	Clear	19,100	130	Std	Sensor
74849	LNHIBA1A/150UNVD840/W/WH/D (MTO)	150	120-277V	0-10V	>80	4000K	Clear	19,700	133	Prm	Sensor
74850	LNHIBA1A/150UNVD850/W/WH/D (MTO)	150	120-277V	0-10V	>80	5000K	Clear	19,700	133	Prm	Sensor
74835	LNHIBA1A/165UNVD840/A/WH/D (MTO)	165	120-277V	0-10V	>80	4000K	Clear	18,900	117	Std	Sensor
74836	LNHIBA1A/165UNVD850/A/WH/D (MTO)	165	120-277V	0-10V	>80	5000K	Clear	18,900	117	Std	Sensor
74833	LNHIBA1A/165UNVD840/W/WH/D (MTO)	165	120-277V	0-10V	>80	4000K	Frosted	18,100	112	—	Sensor
74834	LNHIBA1A/165UNVD850/W/WH/D (MTO)	165	120-277V	0-10V	>80	5000K	Frosted	18,100	112	—	Sensor
74827	LNHIBA1A/225UNVD840/A/WH/D (MTO)	225	120-277V	0-10V	>80	4000K	Clear	25,300	112	—	Sensor
74828	LNHIBA1A/225UNVD850/A/WH/D (MTO)	225	120-277V	0-10V	>80	5000K	Clear	25,300	112	—	Sensor
74825	LNHIBA1A/225UNVD840/W/WH/D (MTO)	225	120-277V	0-10V	>80	4000K	Frosted	26,600	117	Std	Sensor
74826	LNHIBA1A/225UNVD850/W/WH/D (MTO)	225	120-277V	0-10V	>80	5000K	Frosted	26,600	117	Std	Sensor

*Standard lead time for made to order (MTO) is 4-5 weeks. Lead time for 150W Aisle distribution (MTO) is 2-3 weeks.

**LPW per LM79 report

***Prm for DLC Premium; Std for DLC Standard

For further information and to learn more about utility rebates, contact your local SYLVANIA sales representative.

Options Information

Sensor: Motion and Daylight sensors are both available.

Motion Sensor (Default Setting):

Motion	100% lumen output
≥5min with no motion	30% lumen output
≥60min with no motion	Off

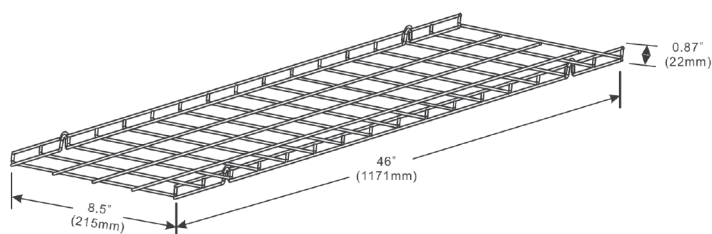
Daylight (Default Setting) Disabled

For customized settings: Purchase remote control separately and refer to the Sensor Remote document LEDLUM027 for further instructions.

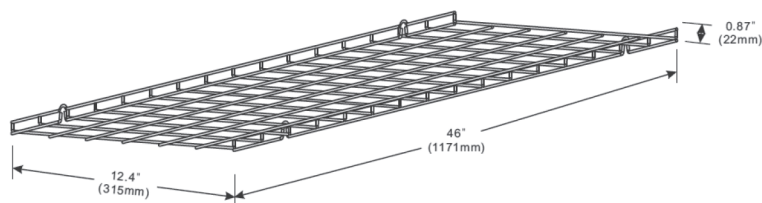
Accessories

Item Number	Ordering Abbreviation	Item Description
71758	SENSOR1A/REMOTE/D	Sensor Remote
74597	LNHIBA1A/08IN/WG/WH	Wire guard for 100W, 150W and 165W versions
74598	LNHIBA1A/12IN/WG/WH	Wire guard for 225W versions

100W, 150W, 165W Wire Guard



225W Wire Guard



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