



## LED Linear High Bay

### Great Features/Benefits

TCP's LED Linear High Bay features a stylish curved design and provides exceptional light distribution for mounting heights up to 60 feet.

This durable, robust fixture efficiently delivers over 130 LPW of bright, white, uniform light to maximize energy savings and utility rebates. The long 75,000 hour rated life significantly decreases maintenance labor and material costs over the life of the fixture.

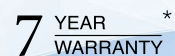
A 0-10V dimming driver comes standard, enabling easy integration with a variety of controls options.

- Energy efficient – Up to 69% energy savings compared to HID
- Smooth, uniform dimming (0-10V)
- Instant on, no warm up time for full light
- Long life: 75,000 hours
- Replaces traditional metal halide and linear fluorescent high bay systems
- Heavy duty 22 gauge housing is code grade steel

### Limitless Options for the following applications:

- Warehouses & Distribution Centers
- Commercial Facilities
- Aisles (Open & Stock)
- Retailers
- Schools & Municipalities
- Field Houses & Gymnasiums
- Open Ceiling Designs

\*Five year warranty for units with emergency backup





# Industra

by TCP

## LED Linear High Bay



### Features/Benefits

Up to 69% less energy than HID alternatives.	Instant energy savings; potential rebate eligibility.
Long 75,000 hour rated life. 50,000 hours rated life for units with emergency back-up (EB).	Minimizes replacements & maintenance costs.
Very low heat generation.	Less energy wasted as heat.
UL approved for damp locations.	Can be used outdoors when protected from elements. Withstands humidity indoors/outdoors.

### Specifications

Input Line Voltage	120-277 & 347-480 VAC
Input Power	92W (12,500L), 185W (25,000L)
Input Line Frequency	50/60HZ
Luminaire Life (Rated)	75,000 hours / 50,000 hours for EB units
Controls	0-10V dimming (standard)
Minimum Starting Temperature	-20°C (-4°F)
Maximum Operating Temperature	50°C (122°F)
CRI	>75
Power Factor	>0.9
THD	<20%

### Warranty

Seven year limited warranty against defects in manufacturing.
Five years limited warranty against defects in manufacturing for units with emergency backup.

### Replacement Comparison

TYPE	WATTAGE	ENERGY SAVINGS (%)
<b>TCP LED Linear High Bay - 12,500 lumens</b>	<b>92W</b>	—
250W Metal Halide	295W	69%
6 Lamp T8 HBF	220W	58%
4 Lamp T5 HO	249W	63%
<b>TCP LED Linear High Bay - 25,000 lumens</b>	<b>185W</b>	—
8 Lamp T5HO	482W	62%
400W Metal Halide	458W	60%
10 Lamp T8 HB	366W	49%



# LED Linear High Bay

### Applications

The TCP LED Linear High Bay is ideal for replacing traditional metal halide and linear fluorescent high bay systems. Benefits include high efficiency, excellent color rendering, long life, instant on, and improved uniformity. Suggested mounting heights up to 60' with primary applications including warehousing, commercial facilities, manufacturing facilities, open and stack aisle applications.

### Construction

- Housing: durable 22 gauge steel
- Finish: powder coated, post-painted white
- Large wiring compartment and multiple knock-outs to accommodate lighting controls
- Stylish curved design

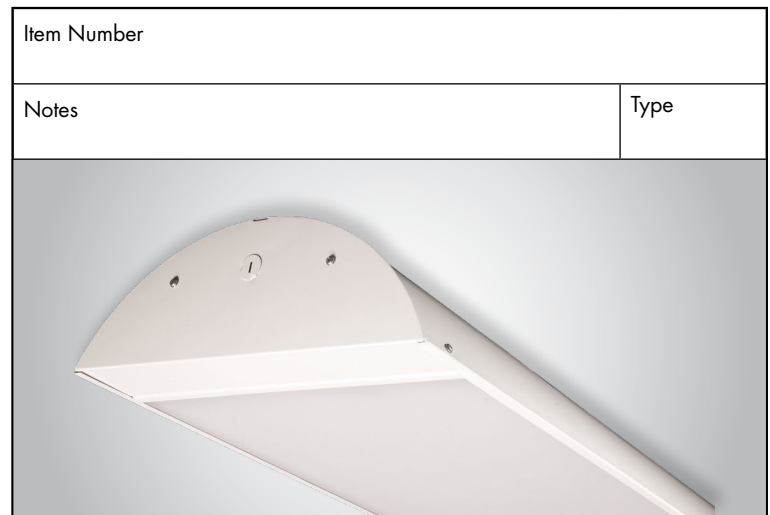
### Electrical

- cULus damp location rated
- 0-10V dimming driver (standard)
- Easy-to-access wiring compartment
- System rated for long 75,000 hour life
- Efficiently delivers >130 LPW

### Optics

- High impact, frosted white acrylic lens comes standard to protect the LEDs and minimize glare
- Delivers bright, white light and excellent uniformity

For the most up-to-date specs and warranty information, please visit [www.tpci.com](http://www.tpci.com)



### Warranty

Seven year limited warranty against defects in manufacturing.  
Five year limited warranty against defects in manufacturing for units with EB.

### Listings

UL and cUL listed  
UL 924 Listed emergency back-up units  
RoHS Compliant

### Lumen Maintenance

Lumen Maintenance Factor (LMF) <sup>1</sup>				
Item #	36,000 hours <sup>1</sup>	50,000 hours <sup>1</sup>	100,000 hours <sup>2</sup>	Reported L <sub>70</sub> (hours) <sup>1</sup>
HBLUZDA2xxK	92.31%	89.79%	81.34%	>60,000
HBLUZDB2xxK	92.51%	90.06%	81.83%	>60,000

<sup>1</sup> IESNA TM-21-11 projected value based on 6X IESNA LM-80-08 total test duration of 10,000 hours.

<sup>2</sup> IESNA TM-21-11 calculated value exceeds 6X IESNA LM-80-08 total test duration of 10,000 hours.

## Catalog Ordering Matrix Example: HBLUZDB250K10CSP

HBL		ZD	L1		
FAMILY	VOLTAGE	CONTROLS/DIMMING	LUMEN PACKAGE (Power) <sup>12</sup>	COLOR TEMPERATURE	OPTIONS
HBL - LED Linear High Bay	U - 120V-277V H - 347V-480V	ZD - 0-10V Dimming	A2 - 25,000 lumens (185W) B2 - 12,500 lumens (92W)	40K - 4000K 50K - 5000K	(see below)

<sup>1</sup> Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.

<sup>2</sup> Actual wattage may differ by +/- 10%.

#### CORD OPTIONS

10C - 10' PCord 277V SJTOOW NO PLUG

#### PACKAGING OPTIONS

SP - Single packaged

#### FACTORY INSTALLED OPTIONS (add to catalog number)

EMERGENCY BACK-UP  
EB - Emergency Back-up, maximum height 24' per UL924

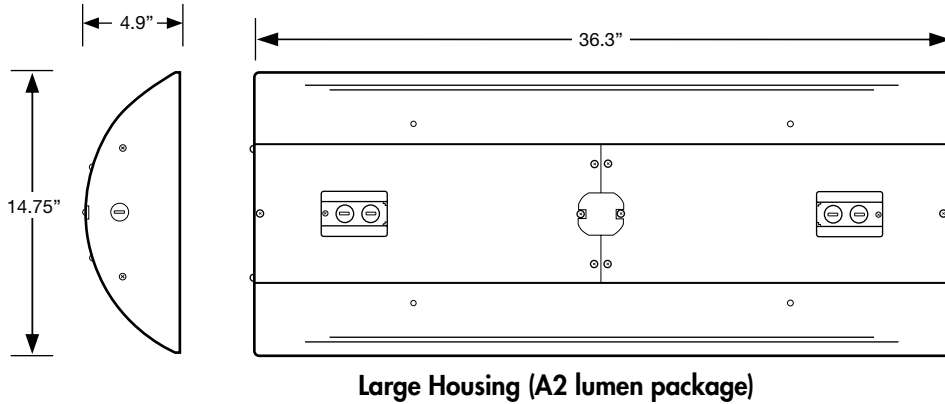
#### FIELD INSTALLED OPTIONS (ordered separately)

OCCUPANCY SENSORS  
LS1 - Leviton Occupancy Sensor w/bracket and interchangeable lenses, 40' or less, 120V, 277V, or 347V  
LS1D - Leviton Occupancy Sensor w/ Daylight Harvesting - PIR, 40' or less, 120V-277V  
LS3D - Leviton Occupancy Sensor w/ Daylight Harvesting - PIR, 40' or less, 347V.

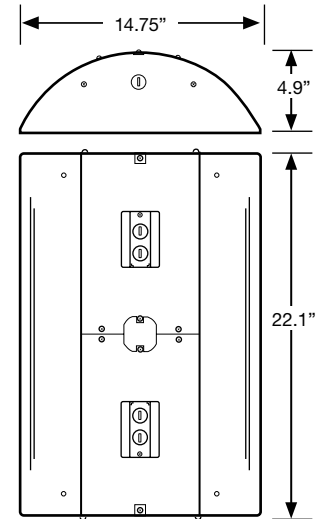
HANGING KITS  
YTG HANGER - 15' adjustable aircraft cable hanging kit (ordered separately)

# LED Linear High Bay

## Dimensions



Large Housing (A2 lumen package)



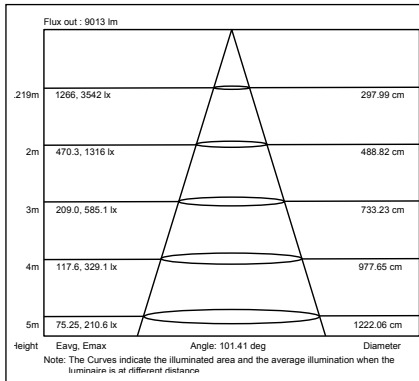
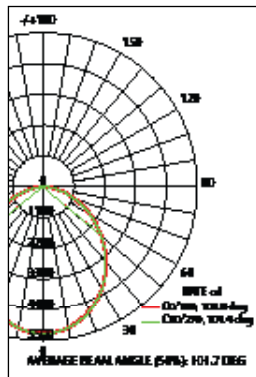
Small Housing (B2 lumen package)

## Photometric Report

### TCP LED Linear High Bay

LED Linear High Bay Luminaire with lumen rating of 12,500 lumens and operating at 120-277 VAC and 92 watts.

HBLUZDB240K



AAI Figure

For the most up-to-date specs and warranty information, please visit [www.tcp.com](http://www.tcp.com)

### Photometric Report

Efficiency (total) N.A.  
 Spacing Criterion (0-180) 1.30  
 Spacing Criterion (90-270) 1.38

### Zonal Lumen Summary

Deg	Zonal (lm)	Total (lm)	%lum	%lamp
0.0 ~ 5.0	125,454	125,454	0.94	0.94
5.0 ~ 10.0	371,010	496,465	3.71	3.71
10.0 ~ 15.0	600,767	1097,232	8.20	8.20
15.0 ~ 20.0	804,858	1902,090	14.22	14.22
20.0 ~ 25.0	974,813	2876,903	21.51	21.51
25.0 ~ 30.0	1104,214	3981,116	29.77	29.77
30.0 ~ 35.0	1188,730	5169,847	38.66	38.66
35.0 ~ 40.0	1226,796	6396,642	47.83	47.83
40.0 ~ 45.0	1219,743	7616,385	56.95	56.95
45.0 ~ 50.0	1171,167	8787,552	65.71	65.71
50.0 ~ 55.0	1085,791	9873,343	73.83	73.83
55.0 ~ 60.0	969,297	10842,640	81.08	81.08
60.0 ~ 65.0	827,339	11669,979	87.26	87.26
65.0 ~ 70.0	666,342	12336,320	92.25	92.25
70.0 ~ 75.0	492,615	12828,936	95.93	95.93
75.0 ~ 80.0	319,409	13148,345	98.32	98.32
80.0 ~ 85.0	162,607	13310,952	99.53	99.53
85.0 ~ 90.0	39,808	13350,760	99.83	99.83
90.0 ~ 95.0	0,574	13351,334	99.84	99.84
95.0 ~ 100.0	0,464	13351,798	99.84	99.84
100.0 ~ 105.0	0,722	13352,520	99.84	99.84
105.0 ~ 110.0	1,009	13353,528	99.85	99.85
110.0 ~ 115.0	1,238	13354,767	99.86	99.86
115.0 ~ 120.0	1,451	13356,218	99.87	99.87
120.0 ~ 125.0	1,671	13357,889	99.88	99.88
125.0 ~ 130.0	1,898	13359,787	99.90	99.90
130.0 ~ 135.0	2,004	13361,791	99.91	99.91
135.0 ~ 140.0	2,046	13363,837	99.93	99.93
140.0 ~ 145.0	2,014	13365,847	99.94	99.94
145.0 ~ 150.0	1,871	13367,718	99.96	99.96
150.0 ~ 155.0	1,652	13369,370	99.97	99.97
155.0 ~ 160.0	1,339	13370,709	99.98	99.98
160.0 ~ 165.0	1,031	13371,740	99.99	99.99
165.0 ~ 170.0	0,847	13372,587	99.99	99.99
170.0 ~ 175.0	0,568	13373,155	100.00	100.00
175.0 ~ 180.0	0,199	13373,354	100.00	100.00

### Coefficient of Utilization Table

Effective Floor Cavity Reflectance = 20%

pcc	80%			70%			50%			30%			10%			0
pW	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR: Room Cavity Ratio						Coefficients of Utilization (CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.16	1.16	1.16	0.00
1.0	1.05	1.00	0.97	1.02	0.99	0.95	0.98	0.95	0.92	0.94	0.92	0.89	1.02	0.99	0.95	0.84
2.0	0.92	0.85	0.79	0.90	0.84	0.78	0.86	0.81	0.77	0.82	0.79	0.75	0.90	0.84	0.78	0.71
3.0	0.81	0.79	0.66	0.79	0.72	0.66	0.76	0.70	0.65	0.79	0.68	0.64	0.79	0.72	0.66	0.60
4.0	0.72	0.62	0.57	0.70	0.62	0.56	0.68	0.61	0.55	0.66	0.60	0.55	0.70	0.62	0.56	0.52
5.0	0.64	0.56	0.49	0.63	0.55	0.49	0.61	0.54	0.48	0.59	0.53	0.46	0.63	0.55	0.49	0.45
6.0	0.55	0.49	0.42	0.57	0.49	0.42	0.55	0.48	0.42	0.54	0.47	0.42	0.57	0.49	0.42	0.40
7.0	0.53	0.44	0.38	0.52	0.44	0.38	0.50	0.43	0.38	0.49	0.42	0.37	0.52	0.44	0.38	0.35
8.0	0.48	0.40	0.34	0.48	0.40	0.34	0.46	0.39	0.34	0.45	0.38	0.34	0.48	0.40	0.34	0.31
9.0	0.44	0.36	0.31	0.44	0.36	0.31	0.43	0.36	0.31	0.42	0.35	0.30	0.44	0.36	0.31	0.28
10.0	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.39	0.32	0.28	0.40	0.33	0.28	0.26