Industra
by TCP®

LED Round High Bay Luminaires

TCP's easy-to-install LED Round High Bay Luminaires have a sleek, robust design that can be paired with optional reflectors to meet a variety of application needs.

Combining long life and outstanding efficacy up to 140 LPW, TCP offers a cost effective solution to maximize energy and maintenance savings. These LED luminaires instantly deliver brilliant white light, eliminating long warm-up times experienced with HID fixtures.

Reasons to choose the LED Round High Bay Luminaires from TCP

- Energy efficient design delivers up to 140 LPW and uses up to 78% less energy than HD alternatives
- Smooth, uniform 0-10V dimming
- Instant on

- Long life: 50,000 hours
- Heavy duty die-cast aluminum housing
- IP65 wet location rated
- Hanging hook and pendant mount adapter for easy installation

Ideal Applications

- Warehouses & Distribution Centers
- Commercial Facilities

- Aisles (Open & Stock)
- Retailers
- Schools & Municipalities

- Field Houses & Gymnasiums
- Open Ceiling Designs

FC | RoHS COMPLIANT | c UL us LISTED | IP65 RATED | DLC QPL LISTED PREMIUM | NSF® | 5 YEAR WARRANTY

To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl

Specifications

Input Line Voltage .... 277-480 VAC
Input Line Frequency (Hz) 50/60HZ
Wattage (W)............................... 100W/150W/200W/240W
Lumens (L)............................. 14000L/21000L/28000L/33000L
Lumens per Watt (LPW).. >140 LPW
Rated Life... 50,000 hours
Minimum Starting Temperature .... -20°C (-4°F)
Maximum Operating Temperature............................ 50°C (122°F)
CRI.. >80
Power Factor .... >0.95
THD... <20%
Ratings .... cULus wet location rated, IP65
Controls... 0-10V dimming (standard)

LED Round High Bay

LED Round High Bay
with aluminum reflector

LED Round High Bay
with acrylic refractor

Replacement Strategy

TYPE	WATTAGE	ENERGY SAVINGS
TCP LED Round High Bay – 14,000 Lumens	100W	—
250W Metal Halide	295W	64%
TCP LED Round High Bay – 21,000 Lumens	150W	—
400W Metal Halide	458W	67%
TCP LED Round High Bay – 28,000 Lumens	200W	—
400W Metal Halide	458W	56%
TCP LED Round High Bay – 33,600 Lumens	240W	—
1000W Metal Halide	1080W	78%

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Applications

The TCP LED Round High Bay is ideal for replacing traditional metal halide high bay systems. Benefits include high efficiency, excellent color rendering, long life, instant on, and improved uniformity.

Suggested mounting heights from 40' - 60' with primary applications including warehousing, commercial facilities, manufacturing facilities, open and stack aisle applications and gymnasiums.

Construction

- Housing: durable die-cast aluminum
- Lens: acrylic
- Finish: powder coated, post-painted black
- Easy-to-install with hanging hook (standard) or optional pendant mount adapter
- Sleek, stylish design

Electrical

- cULus wet location rated, IP65
- 0-10V dimming driver (standard)
- System rated for long 50,000 hour life
- Efficiently delivers up to 140 LPW

Optics

- 120° beam angle (without reflectors)
- Optional reflectors available to minimize glare
- Multiple reflector options to fit a variety of applications and aesthetic needs

Listings

cULus Listed – wet location rated
IP65 Rated
RoHS Compliant
DLC Premium v5.0 Premium
NSF/ANSI 2 – Food Equipment

Warranty

Five year limited warranty against defects in manufacturing.

Lumen Maintenance

Lumen Maintenance Factor (LMF)[1]				
Item #	36,000 hours[1]	50,000 hours[1]	100,000 hours[2]	Reported L70 (hours)[1]
TCPHBRUZDA2XXK	95.20%	94.06%	90.1%	>61,000
TCPHBRUZDA3XXK	94.69%	93.36%	88.77%	>61,000
TCPHBRUZDA4XXK	93.85%	92.22%	86.60%	>61,000
TCPHBRUZDA5XXK	93.54%	91.79%	85.79%	>61,000

[1] IESNA TM-21-11 projected value based on 6X IESNA LM-80-08 total test duration of 10,000 hours.
[2] IESNA TM-21-11 calculated value exceeds 6X IESNA LM-80-08 total test duration of 10,000 hours.

Catalog Ordering Matrix   Example: TCPHBRHZDA250K

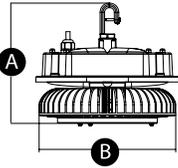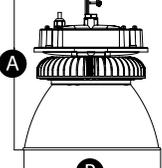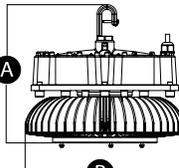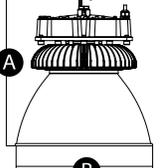| TCP	HBR		ZD		
BRAND	FAMILY	VOLTAGE	CONTROLS/ DIMMING	LUMEN PACKAGE (POWER)[12]	COLOR TEMPERATURE
TCP	HBR Round High Bay	H – 277-480V	ZD = 0-10V Dimming	A2 – 14,000L (100W) A3 – 21,000L (150W) A4 – 28,000L (200W) A5 – 33,600L (240W)	40K – 4000K 50K – 5000K

Accessories:

Item Number	Description	Item Number	Description
HBRPMA34	3/4" PENDANT MOUNT ADAPTER (100W & 150W MODELS)	TCPHBRSENSOR3	DAMP LOCATION RATED DAYLIGHT HARVESTING OCCUPANCY SENSOR 120V-347V
HBRPMA34B	3/4" PENDANT MOUNT ADAPTER (200W & 240W MODELS)	HBRRALUM90	90 DEGREE ALUMINUM REFLECTOR
HBRPMJB34	3/4" PENDANT MOUNT ADAPTER WITH JUNCTION BOX	HBRACREFL	ACRYLIC REFRACTOR
TCPHBRSENSOR1	WET LOCATION RATED DAYLIGHT HARVESTING OCCUPANCY SENSOR 120V-277V	HBRACLENS	ACRYLIC LENS FOR HBRACREFL

[1] Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
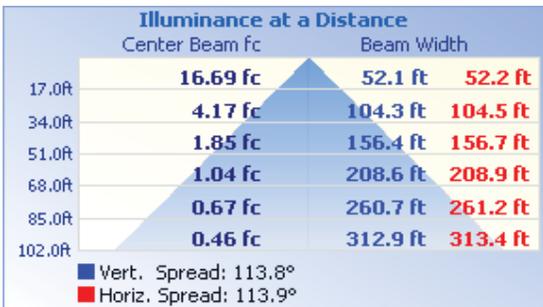[2] Actual wattage may differ by +/- 10%.

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Dimensions and Mounting Data

100W - 150W / 277 - 480V		
NO REFLECTOR	90° ALUMINUM REFLECTOR	100W (120° NO REFLECTOR) **A:** 219MM **B:** 260MM
		100W (90° REFLECTOR) **A:** 369MM **B:** 355MM
		150W (120° NO REFLECTOR) **A:** 219MM **B:** 260MM
		150W (90° REFLECTOR) **A:** 369MM **B:** 355MM

200W - 240W / 277 - 480V		
NO REFLECTOR	90° ALUMINUM REFLECTOR	200W (120° NO REFLECTOR) **A:** 253MM **B:** 290MM
		200W (90° REFLECTOR) **A:** 403MM **B:** 355MM
		240W (120° NO REFLECTOR) **A:** 263MM **B:** 290MM
		240W (90° REFLECTOR) **A:** 413MM **B:** 355MM

Photometric Report

Based on photometric data for TCP Item #TCPHBRUZDA240K

Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	16.69 fc	52.1 ft	52.2 ft
34.0ft	4.17 fc	104.3 ft	104.5 ft
51.0ft	1.85 fc	156.4 ft	156.7 ft
68.0ft	1.04 fc	208.6 ft	208.9 ft
85.0ft	0.67 fc	260.7 ft	261.2 ft
102.0ft	0.46 fc	312.9 ft	313.4 ft

■ Vert. Spread: 113.8°
■ Horiz. Spread: 113.9°

Zonal Lumen Summary

Zone	Lumen	% Luminaire
0-30	3,803.0	28.3%
0-40	6,281.6	46.8%
0-60	11,166.2	83.2%
60-90	2,248.6	16.7%
70-100	678.1	5.1%
90-120	4.2	0%
0-90	13,414.8	99.9%
90-180	11.8	0.1%
0-180	13,426.7	100%

Polar Candela Distribution

■ - 0° H
■ - 90° H
■ - 22.5° H
■ - 45° H
■ - 67.5° H
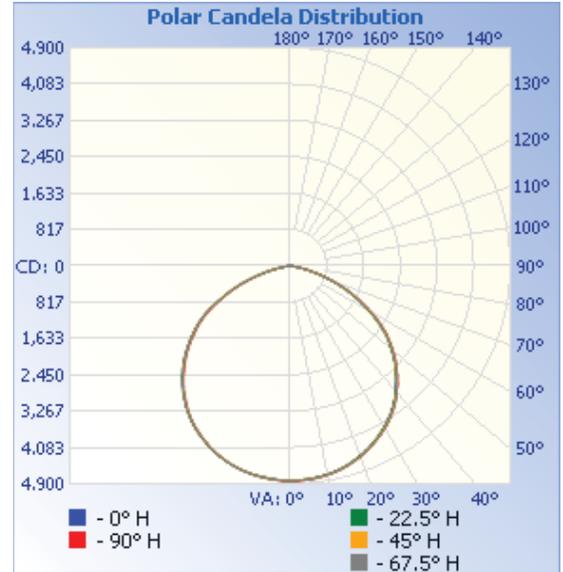
Specifications and dimensions subject to change without notice.

TCP®
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TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

Sales:

Date:

Model:

Project:

Rep:

Catalog Number:

Type:

Notes:

TCP®
we know light.™