Industra by TCP

LED Round High Bay Luminaires

Product Specifications



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 165 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 165 LPW and uses up to 67% less energy than HID alternatives
- Smooth, uniform 0-10V dimming
- Instant on
- Long life: 50,000 hours
- Heavy duty die-cast aluminum housing
- IP65 wet location rated
- Standard hanging hook and optional pendant mount adapter available for easy installation
- Mercury-free and environmentally friendly
- Battery backup is Title 20 Compliant

Ideal Applications

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

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Not all versions of this product are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl.

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LED Round High Bay Luminaires

Specifications

Input Line Voltage	120-277VAC or 347/480VAC
Input Line Frequency (Hz)	50/60Hz
Wattage (W)	80W/100W/150W/200W
Lumens (L)	13200L/16500L/24750L/33000L
Lumens per Watt (LPW)	>165 LPW
Rated Life	50,000 hours
Minimum Starting Temperature	-40°C (-22°F)
Maximum Operating Temperature	50°C (122°F)
CRI	>80
Power Factor	>0.95
THD	<20%
Surge Protection	4kV
Ratings	cULus wet location rated, IP65, DLC 5.1 Premium
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 – 13,200 Lumens	80W	–
150W Metal Halide	150W	47%
TCP LED Round High Bay – 16,500 Lumens	100W	–
250W Metal Halide	295W	64%
TCP LED Round High Bay – 24,750 Lumens	150W	–
400W Metal Halide	458W	67%
TCP LED Round High Bay – 33,000 Lumens	200W	–
400W Metal Halide	458W	56%

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LED Round High Bay Luminaires

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 floor, aisle applications, and gymnasiums.

Construction

- Housing: durable and lightweight cast aluminum alloy
- Lens: tempered glass
- Finish: powder coated, post-painted black
- Easy-to-install with hanging hook (standard) or optional pendant mount adapter or pendant mount adapter with wiring box
- Sleek, stylish design
- 6FT power cord

Electrical

- cULus wet location rated, IP65
- 0-10V dimming driver (standard)
- System rated for long 50,000 hour life
- Efficiently delivers up to 165 LPW

Optics

- 120° beam angle (without reflectors)
- Optional refractor 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 5.1 Premium
NSF Rated*

*Special order only

Warranty

Five year limited warranty against defects in manufacturing.

Catalog Ordering Matrix

Example: RHBUZDA350K

FAMILY	VOLTAGE[1]	CONTROLS/ DIMMING	LUMEN PACKAGE (POWER)[2,3]	COLOR TEMPERATURE	SPECIAL RATING[4]	PAINT COLOR[5]
RHB – Round High Bay	**U** – 120V-277V **H** – 347V/480V	**ZD** – 0-10V Dimming	**A1** – 13,200L (80W) **A2** – 16,500L (100W) **A3** – 24,750L (150W) **A4** – 33,000L (200W)	**40K** – 4000K **50K** – 5000K	**Blank** – No Additional Special Rating **NSF** – NSF International Certified	**Blank** – Black **WH** – White

Field Installed Accessories: Other reflector options available by special order. Contact manufacturer for more information.

Item Number	Description	Item Number	Description
RHBPMA34	3/4" PENDANT MOUNT ADAPTER	**HBRRALUM90**	90° ALUMINUM REFLECTOR
RHBPMJB34	3/4" PENDANT MOUNT ADAPTER WITH JUNCTION BOX	**HBRACREFL**	ACRYLIC REFRACTOR
RHBSENSOR1	WET LOCATION RATED DAYLIGHT HARVESTING OCCUPANCY SENSOR 120V / 277V	**HBRACLENS**	ACRYLIC LENS FOR HBRACREFL
RHBSREM1	OPTIONAL INFRARED REMOTE CONTROLLER FOR PROGRAMMING RHBSENSOR1	**HBRHWG**	WIREGUARD OVER HIGH BAY FIXTURE LENS. NOT COMPATIBLE WITH HBRACREFL OR HBRRALUM90
RHBBRKT	ADJUSTABLE BRACKET	**BILDAIP65EM30**	30W IP65 WET LOCATION RATED TITLE 20 BACKUP BATTERY

[1] 347V/480V versions include a voltage step-down on top of the unit. Unit overall height is increased.
[2] Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
[3] Actual wattage may differ by +/- 10%.
[4] NSF items are special order only, extended lead times will apply.
[5] Black color is standard. Other colors are special order only, extended lead times will apply. 100 pieces minimum order quantity for special color orders.

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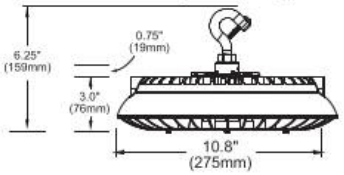
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RoHS COMPLIANT · c UL us LISTED · IP65 RATED · 5 YEAR WARRANTY

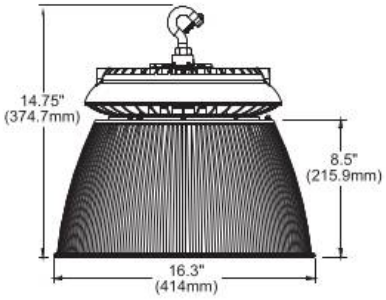
Industra by TCP — LED Round High Bay Luminaires

Dimensions and Mounting Data

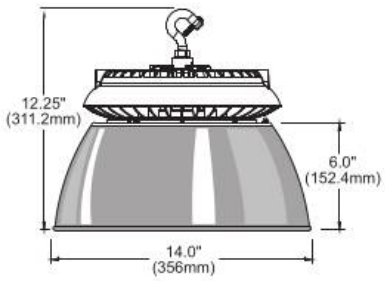
A1 (80W, 13,200 Lumens)
A2 (100W, 16,500 Lumens)
A3 (150W, 24,750 Lumens)
A4 (200W, 33,000 Lumens)
Weight: 6lb (2.7kg)



Acrylic Refractor Installation

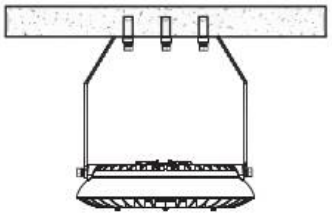


Aluminum Reflector Installation



Adjustable Bracket Installation





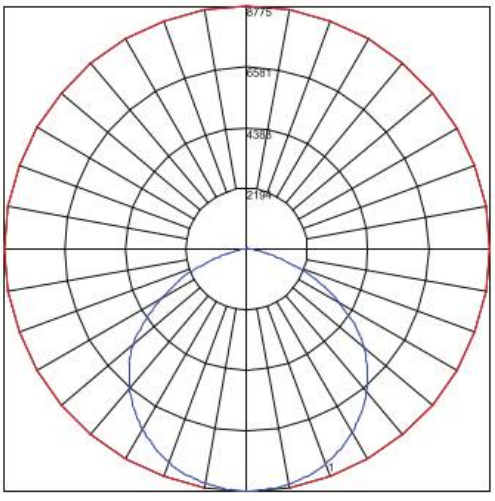


Adjustable bracket allows for custom fixture aiming

Photometric Report

Based on photometric data for
TCP Item #RHBUZDA350K

Polar Graph



Maximum Candela = 8775.1 Located At Horizontal Angle = 90, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)

Spacing Criterion (0-180): 1.28
Spacing Criterion (90-270): 1.30

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	77	74	72
3	91	81	74	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

Zonal Lumen Summary

Zone	Lumens	%Luminaire	Zone	Lumens	%Luminaire
0-20	3222.48	13.30	70-80	1097.17	4.50
0-30	6889.16	28.40	80-90	100.70	0.40
0-40	11369.14	46.90	90-110	16.60	0.10
0-60	20166.34	83.10	90-120	32.71	0.10
0-80	24025.00	99.00	90-130	53.37	0.20
0-90	24125.70	99.40	90-150	98.87	0.40
10-90	23296.61	96.00	90-180	134.41	0.60
20-40	8146.66	33.60	110-180	117.81	0.50
20-50	12849.64	53.00	0-180	24260.11	100.00
40-70	11558.69	47.60	Total Luminaire Efficiency = N.A.%		
60-80	3858.66	15.90			

Specifications and dimensions subject to change without notice.
For the most up-to-date specs and warranty information, please visit www.tcpi.com

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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:	Catalog Number:
Date:	Type:
Model:	Notes:
Project:	
Rep:	

TCP® we know light.™

For more information on the quality and care TCP can deliver, call us at 800.324.1496 or visit tcpi.com

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