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 150 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 150 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
- Mercury free and environmentally friendly

Ideal Applications

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

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325 Campus Dr. | Aurora, Ohio 44202 | P: 800-324-1496 | tcpi.com

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

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 ..... 120-277V & 277-480V
Input Line Frequency (Hz) 50/60HZ
Wattage (W)..... 100W/150W/200W/240W
Lumens (L)..... 15000L/22500L/30000L/36000L
Lumens per Watt (LPW)..... >150 LPW
Rated Life..... 50,000 hours
Minimum Starting Temperature ..... -30°C (-22°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 – 15,000 Lumens	100W	–
250W Metal Halide	295W	64%
TCP LED Round High Bay – 22,500 Lumens	150W	–
400W Metal Halide	458W	67%
TCP LED Round High Bay – 30,000 Lumens	200W	–
400W Metal Halide	458W	56%
TCP LED Round High Bay – 36,000 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 and lightweight cast magnesium alloy
- Lens: tempered glass
- Finish: powder coated, post-painted black
- 6FT power cord
- Easy-to-install with hanging hook (standard) or optional pendant mount adapter or pendant mount adapter with wiring box
- 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 150 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
NSF/ANSI 2 – Food Equipment
DLC 5.0 Premium

Warranty

Five year limited warranty against defects in manufacturing.

Spacing Criterion (0-180): 1.26
Spacing Criterion (90-270): 1.28

Catalog Ordering Matrix

Example: HBRUZDA250K

HBR		ZD		
FAMILY	**VOLTAGE**	**CONTROLS/ DIMMING**	**LUMEN PACKAGE (POWER)[1][2]**	**COLOR TEMPERATURE**
HBR Round High Bay	**U** – 120-277V **H** – 277-480V	**ZD** = 0-10V Dimming	**A2** – 15,000L (100W) **A3** – 22,500L (150W) **A4** – 30,000L (200W) **A5** – 36,000L (240W)	**40K** – 4000K **50K** – 5000K

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

Item Number	Description	Item Number-	Description
HBRPMA34	3/4" PENDANT MOUNT ADAPTER (HBRUZDA2, A3, & A4 & HBRHZDA2 MODELS)	**HBRSENSOR1**	WET LOCATION RATED DAYLIGHT HARVESTING OCCUPANCY SENSOR 120V / 277V
HBRPMA34B	3/4" PENDANT MOUNT ADAPTER (HBRUZDA5 AND HBRHZDA3, A4, & A5 MODELS)	**HBRSENSOR3**	WET LOCATION RATED DAYLIGHT HARVESTING OCCUPANCY SENSOR 120V / 277V / 347V
HBRPMJB34	3/4" PENDANT MOUNT ADAPTER WITH JUNCTION BOX (HBRUZDA2, A3, & A4 & HBRHZDA2 MODELS)	**HBRRALUM90**	90 DEGREE ALUMINUM REFLECTOR
HBRPMJB34B	3/4" PENDANT MOUNT ADAPTER WITH JUNCTION BOX (HBRUZDA5 AND HBRHZDA3, A4, & A5 MODELS)	**HBRACREFL**	ACRYLIC REFRACTOR
		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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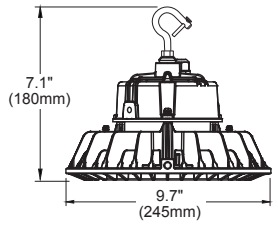
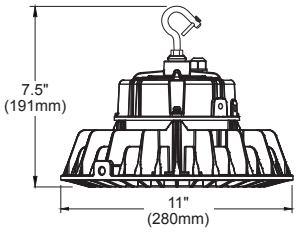
Dimensions and Mounting Data

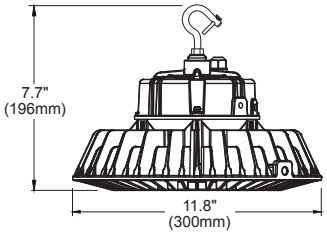
A2 (100W, 15,000 lumens)
Weight: 6lb (2.7kg)



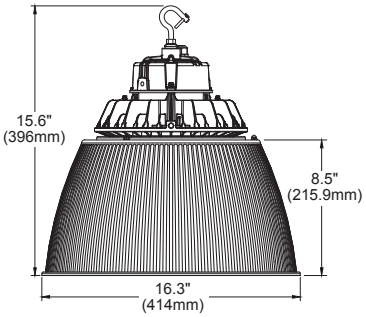
A3 (150W, 22,500 lumens)
Weight: 7lb (3.2kg)



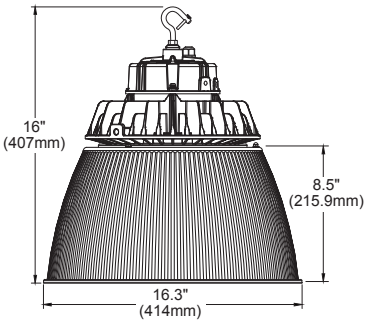
A4 (200W, 30,000 lumens) **Weight: 8lb (3.6kg)**
A5 (240W, 36,000 lumens) **Weight: 8.8lb (4kg)**



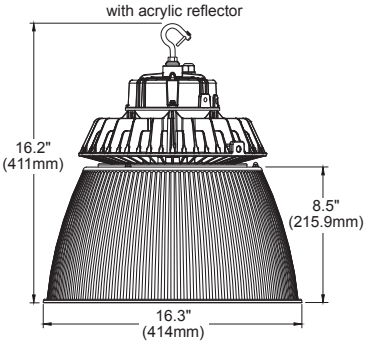
A2
with acrylic reflector



A3
with acrylic reflector



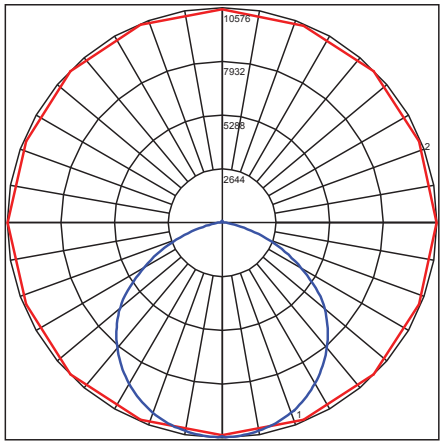
A4 /A5
with acrylic reflector



Photometric Report

Based on photometric data for
TCP Item #HBRUZDA450K

Polar Graph



Maximum Candela = 10575.88 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.)

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	101	101	101	99
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	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	53	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	3875.51	13.30	70-80	1327.11	4.60
0-30	8277.86	28.50	80-90	139.09	0.50
0-40	13641.48	46.90	90-110	22.71	0.10
0-60	24153.2	83.00	90-120	44.47	0.20
0-80	28776.13	98.90	90-130	71.91	0.20
0-90	28915.22	99.40	90-150	131.44	0.50
10-90	27917.84	96.00	90-180	178.20	0.60
20-40	9765.97	33.60	110-180	155.49	0.50
20-50	15373.02	52.80	0-180	29093.42	100.00
40-70	13807.54	47.50			
60-80	4622.93	15.90			

Total Luminaire Efficiency = N.A.%

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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