

# 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

### Ideal Applications

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

TCP®

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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](http://www.designlights.org/qpl).

## Specifications

Input Line Voltage .....	120-277 VAC
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
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
<b>TCP LED Round High Bay – 13,200 Lumens</b>	80W	—
150W Metal Halide	150W	47%
<b>TCP LED Round High Bay – 16,500 Lumens</b>	100W	—
250W Metal Halide	295W	64%
<b>TCP LED Round High Bay – 24,750 Lumens</b>	150W	—
400W Metal Halide	458W	67%
<b>TCP LED Round High Bay – 33,000 Lumens</b>	200W	—
400W Metal Halide	458W	56%

## 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
- 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 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 5.0 Premium  
NSF Rated\*

\*Special order only

### Warranty

Five year limited warranty against defects in manufacturing.

## Catalog Ordering Matrix

Example: RHBZDA350K

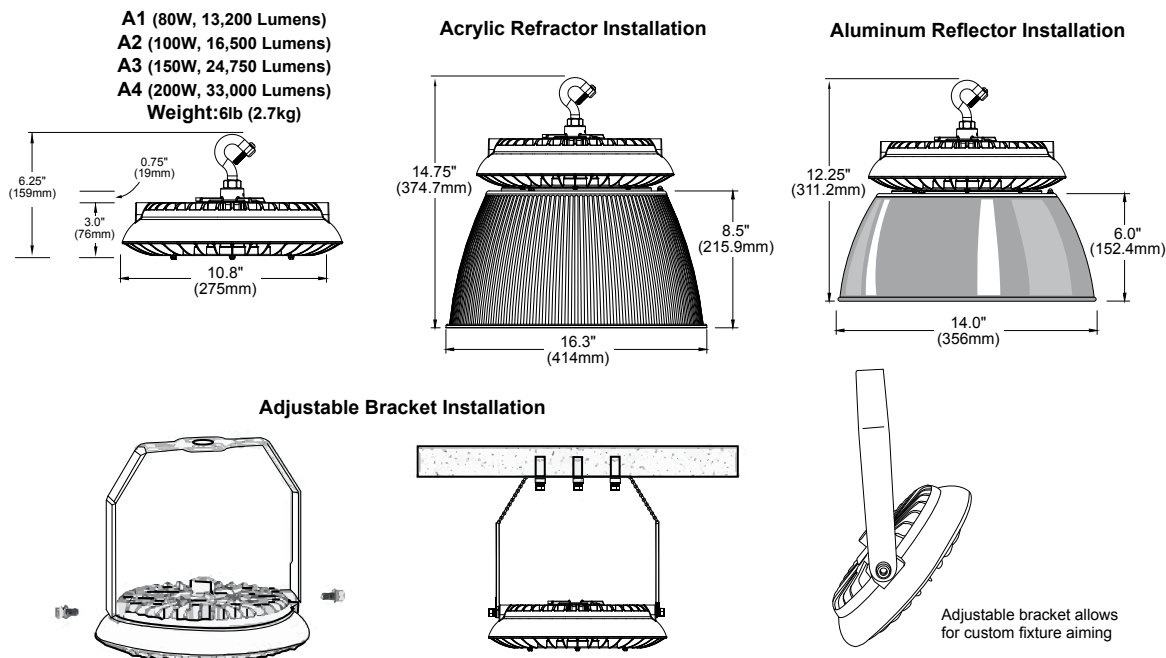
RHB	U	ZD	A4	50K
FAMILY	VOLTAGE	CONTROLS/ DIMMING	LUMEN PACKAGE (POWER) <sup>12</sup>	COLOR TEMPERATURE
<b>RHB</b> Round High Bay	<b>U – 120V-277V</b>	<b>ZD = 0-10V Dimming</b>	<b>A1 – 13,200L (80W)</b> <b>A2 – 16,500L (100W)</b> <b>A3 – 24,750L (150W)</b> <b>A4 – 33,000L (200W)</b>	<b>40K – 4000K</b> <b>50K – 5000K</b>

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

Item Number	Description	Item Number	Description
<b>RHBPMMA34</b>	3/4" PENDANT MOUNT ADAPTER	<b>HBRALUM90</b>	90 DEGREE ALUMINUM REFLECTOR
<b>RHBPMJB34</b>	3/4" PENDANT MOUNT ADAPTER WITH JUNCTION BOX	<b>HBRACREFL</b>	ACRYLIC REFRACTOR
<b>RHBSENSOR1</b>	WET LOCATION RATED DAYLIGHT HARVESTING OCCUPANCY SENSOR 120V / 277V	<b>HBRACLENS</b>	ACRYLIC LENS FOR HBRACREFL
<b>RHBREM1</b>	OPTIONAL INFRARED REMOTE CONTROLLER FOR PROGRAMMING RHBSENSOR1	<b>HBRHWG</b>	WIRE GUARD OVER HIGH BAY FIXTURE LENS. NOT COMPATIBLE WITH HBRACREFL OR HBRALUM90
<b>RHBKRKT</b>	ADJUSTABLE BRACKET		

<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%.

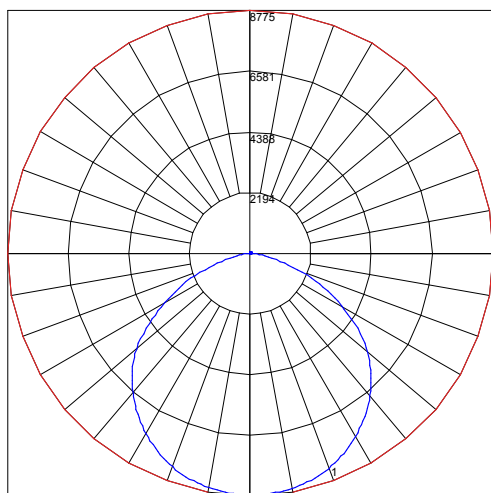
## Dimensions and Mounting Data



## Photometric Report

Based on photometric data for  
 TCP Item #RHBZDA350K

### 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.)

## 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	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99	99	99	99
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85	85	85	85
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	77	74	72	72	72	72
3	91	81	74	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61	61	61	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52	52	52	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	39	39	39	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35	35	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	28	28	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25	25	25	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			
60-80	3858.66	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.tcp.com](http://www.tcp.com)



## LED Wall Pack



Limitless Options  
for the following applications:

TCP's LED Non-Cutoff Wall Pack combines the look of a traditional wall pack with the benefits of LED. An efficient alternative to HID, these wall packs deliver bright uniform light while providing energy savings. A long 50,000 hour rated life significantly decreases maintenance labor and material costs over the life of the fixture.

The robust die-cast aluminum housing incorporates an impact resistant polycarbonate lens. An integrated photocell is optional for dusk-to-dawn control. An integrated microwave motion sensor is optional for increased power savings. The wall pack mounts directly to a standard junction box for easy retrofit of traditional fixtures.

- Site Lighting
- Entrances
- Security Lighting
- Perimeters



5 YEAR  
WARRANTY

we know light.™

### LED Non-Cutoff Wall Pack - Polycarbonate Lens

#### Applications

This product family can be effectively used in outdoor wall mount locations. Commercial, industrial, retail and healthcare exterior lighting; parking lot, cargo door, high wall, area, security, etc.

#### Construction

- Die-cast aluminum housing
- Impact resistant polycarbonate lens
- Durable dark bronze powdercoat
- Same footprint as existing HID wall packs
- Operating Temperature: -20°C to 40°C

#### Electrical

- cULus wet location rated
- Easy-to-access wiring compartment
- System rated for long 50,000 hour life
- Efficiently delivers up to 125 LPW
- Optional Photocell (PC)
- Optional Microwave Motion Sensor (MS)

#### Optics

- Prismatic polycarbonate lens
- Delivers bright, white light and excellent uniformity

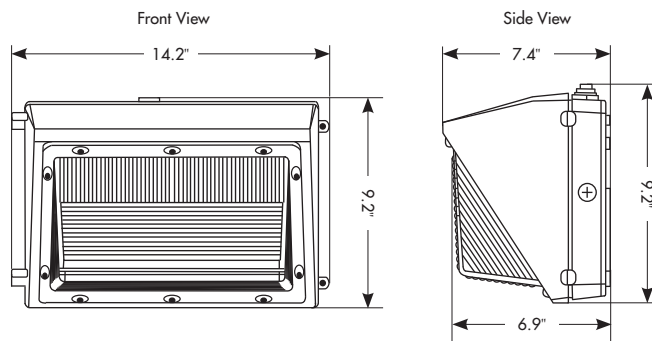


#### Listings

UL and cUL listed  
RoHS Compliant  
DLC v4.3 Standard

#### Warranty

Five year limited warranty against defects in manufacturing.



5 YEAR WARRANTY

To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/qpl](http://www.designlights.org/qpl).

ITEM #	DESCRIPTION	LUMENS	WATTAGE	LPW	VOLTAGE	POWER FACTOR	CCT	CRI	LIFE	L(in.)	H(in.)	W(in.)
<b>LED Wall Pack • 50,000 Hour</b>												
WP5500140	LED Wall Pack - Non Dim 40K	6900	55	125.5	120 - 277V	≥0.9	4000K	>80	50000	14.2	9.2	7.4
<b>WP5500150</b>	<b>LED Wall Pack - Non Dim 50K</b>	<b>6900</b>	<b>55</b>	<b>125.5</b>	<b>120 - 277V</b>	<b>≥0.9</b>	<b>5000K</b>	<b>&gt;80</b>	<b>50000</b>	<b>14.2</b>	<b>9.2</b>	<b>7.4</b>
WP5500140PC	LED Wall Pack - Non Dim 40K W/PC	6900	55	125.5	120 - 277V	≥0.9	4000K	>80	50000	14.2	9.2	7.4
WP5500150PC	LED Wall Pack - Non Dim 50K W/PC	6900	55	125.5	120 - 277V	≥0.9	5000K	>80	50000	14.2	9.2	7.4
WP5500140MS	LED Wall Pack - Non Dim 40K W/MS	6900	55	125.5	120 - 277V	≥0.9	4000K	>80	50000	14.2	9.2	7.4
WP5500150MS	LED Wall Pack - Non Dim 50K W/MS	6900	55	125.5	120 - 277V	≥0.9	5000K	>80	50000	14.2	9.2	7.4
WP12000140	LED Wall Pack - Non Dim 40K	14500	120	120.8	120 - 277V	≥0.9	4000K	>80	50000	14.2	9.2	7.4
WP12000150	LED Wall Pack - Non Dim 50K	14500	120	120.8	120 - 277V	≥0.9	5000K	>80	50000	14.2	9.2	7.4
WP12000140PC	LED Wall Pack - Non Dim 40K W/PC	14500	120	120.8	120 - 277V	≥0.9	4000K	>80	50000	14.2	9.2	7.4
WP12000150PC	LED Wall Pack - Non Dim 50K W/PC	14500	120	120.8	120 - 277V	≥0.9	5000K	>80	50000	14.2	9.2	7.4
WP12000140MS	LED Wall Pack - Non Dim 40K W/MS	14500	120	120.8	120 - 277V	≥0.9	4000K	>80	50000	14.2	9.2	7.4
WP12000150MS	LED Wall Pack - Non Dim 50K W/MS	14500	120	120.8	120 - 277V	≥0.9	5000K	>80	50000	14.2	9.2	7.4

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