

# 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 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 5.0 Premium  
NSF Rated\*

\*Special order only

### Warranty

Five year limited warranty against defects in manufacturing.

Spacing Criterion (0-180): 1.28

Spacing Criterion (90-270): 1.3

## Catalog Ordering Matrix

Example: RHBZDA350K

| RHB                  |               | ZD                 |                                                                                         |                            |                                       |
|----------------------|---------------|--------------------|-----------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| FAMILY               | VOLTAGE       | CONTROLS/ DIMMING  | LUMEN PACKAGE (POWER) <sup>1,2</sup>                                                    | COLOR TEMPERATURE          | SPECIAL RATING <sup>3</sup>           |
| RHB – Round High Bay | U – 120V-277V | ZD = 0-10V Dimming | A1 – 13,200L (80W)<br>A2 – 16,500L (100W)<br>A3 – 24,750L (150W)<br>A4 – 33,000L (200W) | 40K – 4000K<br>50K – 5000K | NSF* – National Sanitation Foundation |

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

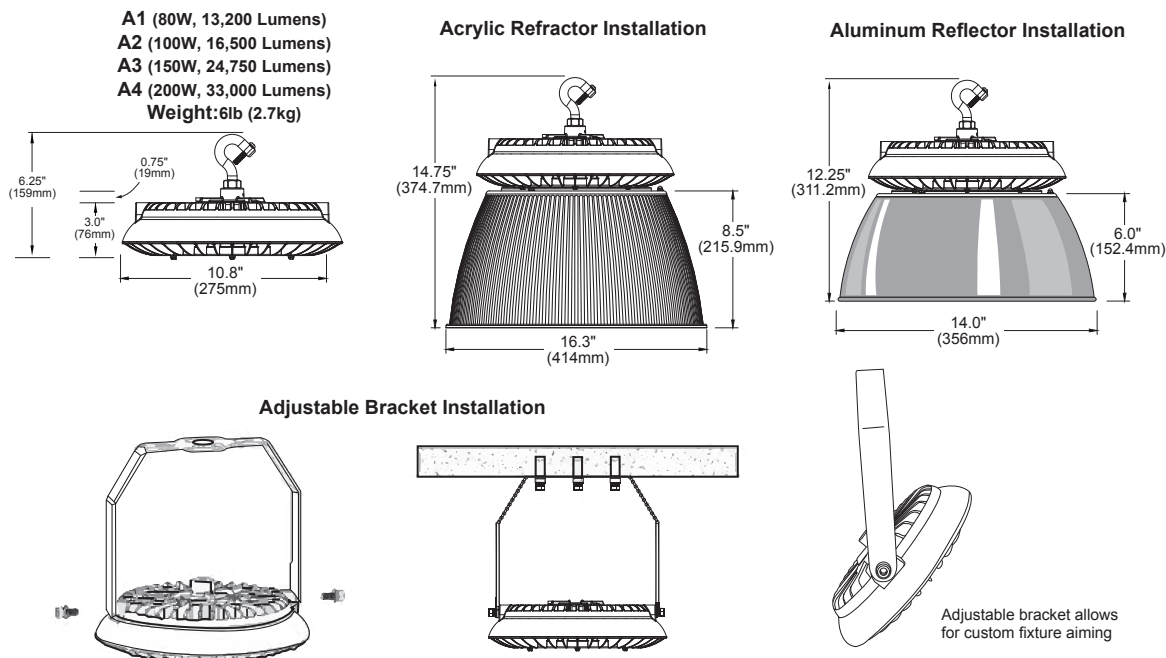
| Item Number | Description                                                         | Item Number | Description                                                                      |
|-------------|---------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|
| RHBPM34     | 3/4" PENDANT MOUNT ADAPTER                                          | HBRALUM90   | 90 DEGREE 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                                                       |
| RHBREM1     | OPTIONAL INFRARED REMOTE CONTROLLER FOR PROGRAMMING RHBSENSOR1      | HBRHWG      | WIREGUARD OVER HIGH BAY FIXTURE LENS. NOT COMPATIBLE WITH HBRACREFL OR HBRALUM90 |
| RHBKRKT     | 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%.

<sup>3</sup> NSF items are special order only, extended lead times will apply. DLC is pending.

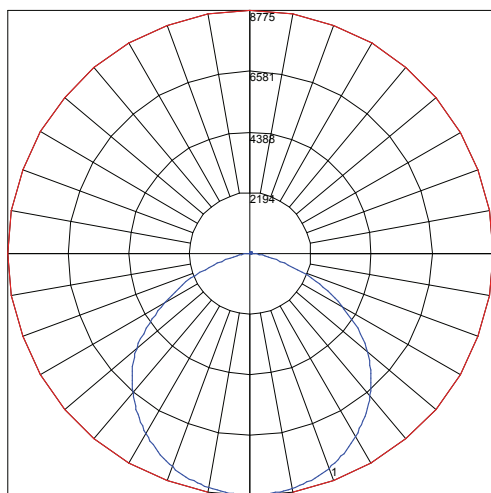
## Dimensions and Mounting Data



## 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)



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Sales:

Date:

Model:

Project:

Rep:

Catalog Number:

Type:

Notes:



For more information on the quality and care TCP can deliver, call us at **800.324.1496** or visit [tcpi.com](http://tcpi.com)

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