



## LED Round High Bay Luminaires

### Great Features/Benefits

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.

- Energy efficient design delivers up to 150 LPW
- Smooth, uniform 0-10V dimming
- Instant on
- Long life: 50,000 hours
- Heavy duty die-cast aluminum housing
- IP65 wet location rated
- Ideal for:
  - Warehouses & Distribution Centers
  - Commercial Facilities
  - Aisles (Open & Stock)
  - Retailers
  - Schools & Municipalities
  - Field Houses & Gymnasiums
  - Open Ceiling Designs



5 YEAR WARRANTY



# LED Round High Bay Luminaires

## Features/Benefits

|                                                   |                                                           |
|---------------------------------------------------|-----------------------------------------------------------|
| Up to 78% less energy than HID alternatives       | Instant energy savings; potential rebate eligibility      |
| Long 50,000 hour rated life                       | Significantly reduce maintenance labor and material costs |
| Hanging hook (standard) and pendant mount adapter | Easy to install                                           |
| Mercury free                                      | Great for all environments                                |
| IP65 Rated                                        | UL approved for wet locations                             |

## Specifications

|                               |                                |
|-------------------------------|--------------------------------|
| Input Line Voltage            | 120-277VAC & 347-480VAC        |
| Input Line Frequency (Hz)     | 50/60HZ                        |
| Wattage (W)                   | 100W, 150W, 200W, 240W         |
| Lumens (L)                    | 15,000, 22,500, 30,000, 36,000 |
| Lumens per Watt (LPW)         | >140                           |
| 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)       |

## Replacement Comparison

| 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%                |



LED Round High Bay



LED Round High Bay with aluminum reflector



LED Round High Bay with acrylic refractor



### 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 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

#### Warranty

Five year limited warranty against defects in manufacturing.

## Catalog Ordering Matrix

Example: HBRUZA250K

| HBR                   |                                    | ZD                 |                                                                                          |                            |
|-----------------------|------------------------------------|--------------------|------------------------------------------------------------------------------------------|----------------------------|
| FAMILY                | VOLTAGE                            | CONTROLS/DIMMING   | LUMEN PACKAGE (Power) <sup>12</sup>                                                      | COLOR TEMPERATURE          |
| HBR<br>Round High Bay | U – 120V - 277V<br>H – 200V - 480V | ZD – 0-10V Dimming | A2 – 15,000L (100W)<br>A3 – 22,500L (150W)<br>A4 – 30,000L (200W)<br>A5 – 36,000L (240W) | 40K – 4000K<br>50K – 5000K |

<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%.

#### AVAILABLE ACCESSORIES (ordered separately)

**HBRPMA34** – ¾" Pendant mount adapter (100W & 150W models)  
**HBRPMA34B** – ¾" Pendant mount adapter (200W & 240W models)  
**HBRPMB34** – ¾" Pendant mount adapter with junction box (all models)  
**HBRSENSOR1** – Wet location rated daylight harvesting occupancy sensor 120V / 277V  
**HBRSENSOR3** – Wet location rated daylight harvesting occupancy sensor 120V / 277V / 347V

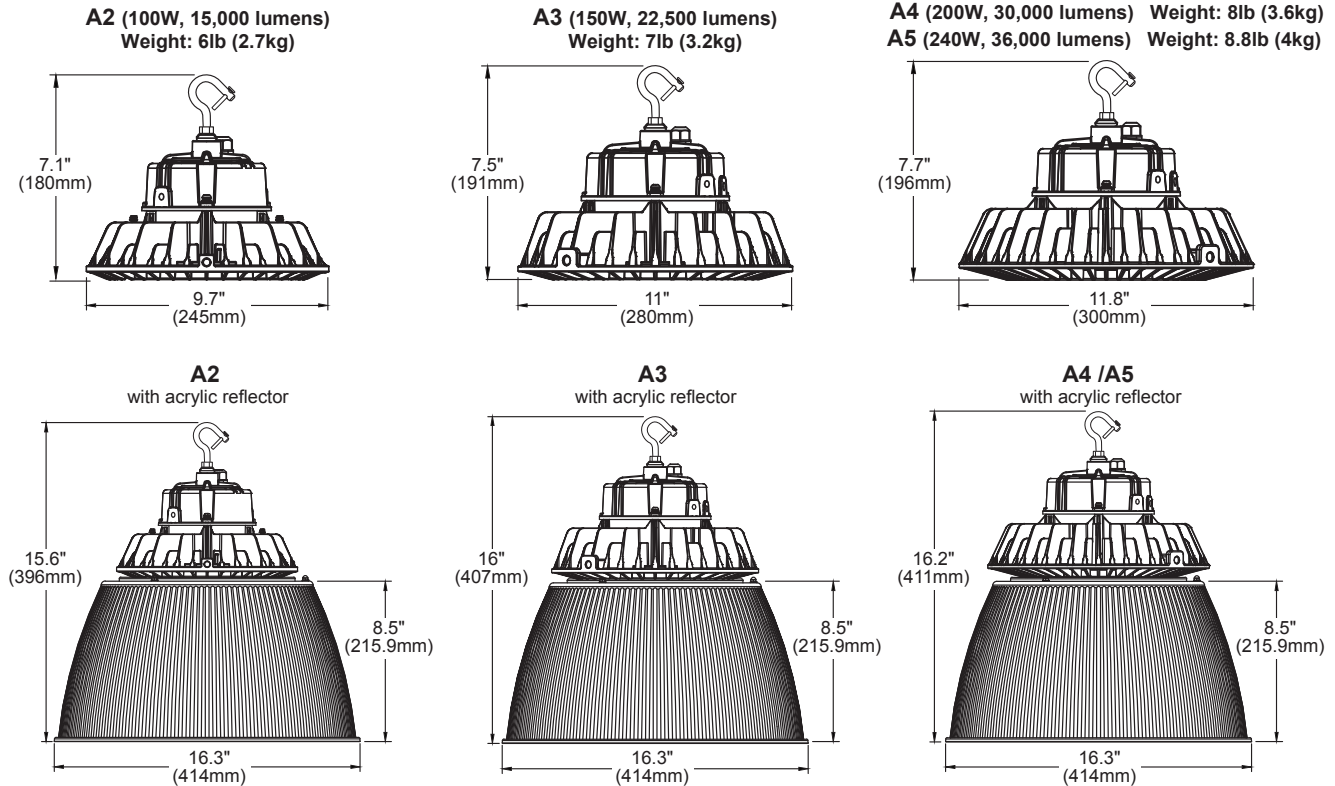
**HBRRALUM90** – 90 degree aluminum reflector  
**HBRACREFL** – Acrylic refractor  
**HBRACLENS** – Acrylic lens for HBRACREFL

**\*\*Other reflector options available by special order.  
Contact manufacturer for more information.\*\***

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

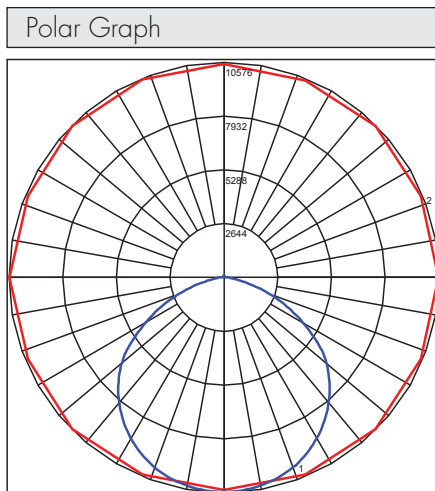


### Dimensions



### Photometric Report

Based on photometric data for  
TCP Item #HBRUZDA450K



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.)

#### Zonal Lumen Summary

| Zone    | Lumens   | %Luminaire |
|---------|----------|------------|
| 0-20    | 3875.51  | 13.30      |
| 0-30    | 8277.86  | 28.50      |
| 0-40    | 13641.48 | 46.90      |
| 0-60    | 24153.2  | 83.00      |
| 0-80    | 28776.13 | 98.90      |
| 0-90    | 28915.22 | 99.40      |
| 10-90   | 27917.84 | 96.00      |
| 20-40   | 9765.97  | 33.60      |
| 20-50   | 15373.02 | 52.80      |
| 40-70   | 13807.54 | 47.50      |
| 60-80   | 4622.93  | 15.90      |
| 70-80   | 1327.11  | 4.60       |
| 80-90   | 139.09   | 0.50       |
| 90-110  | 22.71    | 0.10       |
| 90-120  | 44.47    | 0.20       |
| 90-130  | 71.91    | 0.20       |
| 90-150  | 131.44   | 0.50       |
| 90-180  | 178.20   | 0.60       |
| 110-180 | 155.49   | 0.50       |
| 0-180   | 29093.42 | 100.00     |

Total Luminaire Efficiency = N.A.%

#### 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 | 101 | 101 | 101 | 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  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  | 83  | 79  | 76  | 80  | 77  | 74  | 72 | 72 | 72 | 72 |
| 3  | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 70  | 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  | 53  | 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 |

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

Specifications and dimensions subject  
to change without notice.