



# COST LESS LIGHTING

# 07-HBRHESR

## HIGH BAY ROUND

## HIGH EFFICIENCY & SENSOR READY

p. 866.633.6883 • f. 866.699.8099 • CostLessLighting.com

| PROJECT | TYPE | CATALOG # |
|---------|------|-----------|
|         |      |           |



| Model                   | Size (inches) & Weight (lbs) |        |        |        |
|-------------------------|------------------------------|--------|--------|--------|
|                         | L (in)                       | W (in) | H (in) | Weight |
| 07-HBRHESR-302420L-3CCT | 10.24                        | 10.24  | 4.65   | 5.13   |
| 07-HBRHESR-474133L-3CCT | 12.2                         | 12.2   | 5.24   | 6.06   |

| Series     | Nominal Lumen Output (Selectable)        | Kelvin (Selectable)      |
|------------|------------------------------------------|--------------------------|
| 07-HBRHESR | 302420L= 30,000 / 24,000 / 20,000 Lumens | 3CCT 3500K /4000K /5000K |
|            | 474133L= 47,000 / 41,000 / 33,000 Lumens |                          |

## Specifications

### Housing

- Black or white powder-coated die cast aluminum housing.

### Electrical

- Operating temperature (ambient): -40°C to 40°C (-40°F to 104°F).
- Universal 120-277V AC voltage (50-60Hz).
- 347-480V is optional (remote mount sold separately).
- 0-10VDC dimming driver.
- Emergency driver option available.
- Input transient surge protection = 6kV.
- Power Factor > 0.9.
- Total Harmonic Distortion < 20%.

### Mounting

- Suspension from eyebolt (included) is standard.
- Ceiling-mounted installation using optional yoke mounting bracket, provides up to 180° of adjustability.
- Two ways to mount luminaire to electrical conduit:
  - Attach conduit (1/2" NPS) to optional yoke mounting bracket.
  - Optional pendant snap hook (for use with 3/4" NPS).

### Code Compliance

- cULus listed for wet locations.
- Complies with FCC Part 15, Class A.
- IP65 rated for ingress protection.
- IK08 rated for Lens impact protection.

### Optical System

- Efficacy up to 200 Lumens per Watt (LPW) @CCT=4000K.
- Field selectable 3500K, 4000K, and 5000K color temperatures.\*
- 07-HBRHESR-302420L-3CCT Selectable output delivers from 20,306 to 29,248 nominal lumens, with 3 settings.\*
- 07-HBRHESR-474133L-3CCT Selectable output delivers from 31,830 to 46,701 nominal lumens, with 3 settings.\*
- Long-life LEDs provide 204,000 hours of operation with at least 70% of initial lumen output (L70), and 61,000 hours with at least 90% of initial lumen output (L90).\*\*
- Sensor-ready receptacle comes standard. Screw-in sensor and remote control sold separately.
- LED color maintenance <0.00018 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Polycarbonate lens.
- Color Rendering Index > 70.

### Warranty

- 5-year warranty on all electronics and housing.

\*Factory set to 4000K CCT, and highest power output.

\*\*L70 and L90 hours are IES TM-21-11 calculated hours.



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## Accessories (order separately)

### Sensor:

- 25-HD09VR-PH5-1 = Passive infrared sensor - maximum mounting height = 39FT.  
25-HD09VR-MH5-1 = Microwave occupancy sensor - maximum mounting height = 49FT.  
25-HD05R = Remote control for 25-HD09VR and 25-HD07VR series (required to change factory settings)

**Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand by dimming level = 10%, daylight threshold = disabled, RCA**

### Photocell:

- 07-HD07VR-A-1 = 12VDC photocell; RCA jack, factory set to Turn on at 10 lux, Turns off at 100 lux

**Note: Screws into Sensor RCA receptacle that comes standard on the fixture.**

### Step-down Transformers:

- 07-HBSD-325W-480-277 = 347-480V step-down transformer - all models

### Reflector:

- 07-HBRSR-ALREF-S = 90° aluminum reflector - 07-HBRSR-221816L-4K5K models  
07-HBRSR-PCREF-S = 90° polycarbonate reflector - 07-HBRSR-221816L-4K5K models  
07-HBRSR-ALREF-L = 90° aluminum reflector - 07-HBRSR-353024L-4K5K models  
07-HBRSR-PCREF-L = 90° polycarbonate reflector - 07-HBRSR-353024L-4K5K models

### Mounting Option:

- 07-HBRSR-YOKE-WHT = Yoke mount - all models - white  
07-HBRSR-YOKE-BLK = Yoke mount - all models - black  
07-LEDHBSRN-PSH-PRM-V2 = Pendant snap hook for 3/4" NPS conduit - all models

### Emergency Battery Back-up:

- 07-BLEM-INDRV-HBR30W = 30W Emergency Driver.  
07-BLEM-INDRV-HBR40W = 40W Emergency Driver.  
07-BLEM-INDRV-HBR60W = 60W Emergency Driver.

## Compatible Dimmers & Controls

| Manufacturer  | Model Number | Style  | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | Toggle | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | Decora | 10%-100%     | 600W                    |
| Best Lighting | GPDM LV-02-3 | Toggle | 10%-100%     | 600W                    |
| Best Lighting | GPDM LV-12-3 | Decora | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | Toggle | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | Decora | 10%-100%     | 450W                    |



## Electrical Data

| Series                  | Measurements      |      | 30L    |        |        | 24L    |        |        | 20L    |        |        |
|-------------------------|-------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                         |                   |      | 3500K  | 4000K  | 5000K  | 3500K  | 4000K  | 5000K  | 3500K  | 4000K  | 5000K  |
| 07-HBRHESR-302420L-3CCT | Lumens            |      | 27,961 | 29,248 | 28,396 | 23,809 | 24,694 | 24,079 | 20,306 | 21,002 | 20,687 |
|                         | Watts             |      | 158.0  | 152.2  | 157.1  | 129.5  | 125.5  | 128.7  | 107.8  | 105.1  | 107.6  |
|                         | Efficacy          |      | 177    | 192    | 181    | 184    | 197    | 187    | 188    | 200    | 192    |
|                         | Input Current (A) | 120V | 1.32   | 1.27   | 1.31   | 1.08   | 1.05   | 1.07   | 0.90   | 0.88   | 0.90   |
|                         |                   | 240V | 0.66   | 0.63   | 0.65   | 0.54   | 0.52   | 0.54   | 0.45   | 0.44   | 0.45   |
|                         |                   | 277V | 0.57   | 0.55   | 0.57   | 0.47   | 0.45   | 0.46   | 0.39   | 0.38   | 0.39   |

| Series                  | Measurements      |      | 47L    |        |        | 41L    |        |        | 33L    |        |        |
|-------------------------|-------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                         |                   |      | 3500K  | 4000K  | 5000K  | 3500K  | 4000K  | 5000K  | 3500K  | 4000K  | 5000K  |
| 07-HBRHESR-474133L-3CCT | Lumens            |      | 44,801 | 46,701 | 45,424 | 39,382 | 40,839 | 39,683 | 31,830 | 32,820 | 32,371 |
|                         | Watts             |      | 253.6  | 244.5  | 254.4  | 216.0  | 209.2  | 216.2  | 169.2  | 164.8  | 169.3  |
|                         | Efficacy          |      | 177    | 191    | 179    | 182    | 195    | 184    | 188    | 199    | 191    |
|                         | Input Current (A) | 120V | 2.11   | 2.04   | 2.12   | 1.80   | 1.74   | 1.80   | 1.41   | 1.37   | 1.41   |
|                         |                   | 240V | 1.06   | 1.02   | 1.06   | 0.90   | 0.87   | 0.90   | 0.71   | 0.69   | 0.71   |
|                         |                   | 277V | 0.92   | 0.88   | 0.92   | 0.78   | 0.76   | 0.78   | 0.61   | 0.59   | 0.61   |

## Photometric Data

### 07-HBRHESR-302420L-3CCT

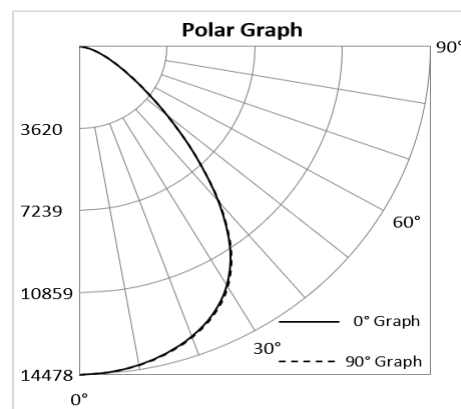
#### Luminaire Data

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Description                 | High Efficacy Round High Bay Lumen/Kelvin Selectable |
| Total Lumens                | 29,248                                               |
| Input Wattage               | 152                                                  |
| Efficacy (lm/W)             | 192                                                  |
| Spacing Criterion (0-180°)  | 1.24                                                 |
| Spacing Criterion (90-270°) | 1.26                                                 |

Photometrics calculated at 4000K and high lumen output.

#### Zonal Lumen Summary

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 5,342  | 18.3%  |
| 0-30°   | 11,397 | 39.0%  |
| 0-40°   | 18,274 | 62.5%  |
| 20-50°  | 18,374 | 62.8%  |
| 40-70°  | 10,144 | 34.7%  |
| 0-60°   | 26,836 | 91.8%  |
| 0-80°   | 29,109 | 99.5%  |
| 0-90°   | 29,248 | 100.0% |
| 90-180° | 0      | 0.0%   |
| 0-180°  | 29,248 | 100.0% |





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## Photometric Data

### 07-HBRHESR-474133L-3CCT

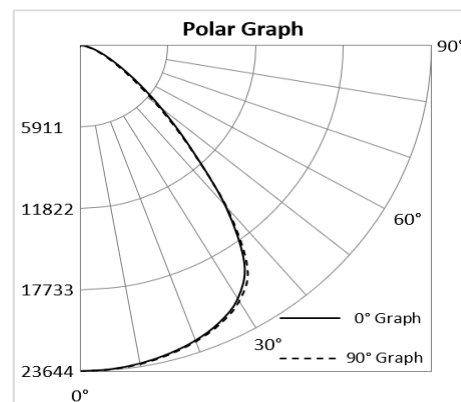
#### Luminaire Data

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| Description                    | High Efficacy Round High Bay<br>Lumen/Kelvin Selectable |
| Total Lumens                   | 46,701                                                  |
| Input Wattage                  | 244                                                     |
| Efficacy (lm/W)                | 191                                                     |
| Spacing Criterion<br>(0-180°)  | 1.32                                                    |
| Spacing Criterion<br>(90-270°) | 1.34                                                    |

Photometrics calculated at  
4000K and high lumen  
output

#### Zonal Lumen Summary

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 8,788  | 18.8%  |
| 0-30°   | 18,985 | 40.7%  |
| 0-40°   | 30,790 | 65.9%  |
| 20-50°  | 30,218 | 64.7%  |
| 40-70°  | 14,676 | 31.4%  |
| 0-60°   | 43,334 | 92.8%  |
| 0-80°   | 46,401 | 99.4%  |
| 0-90°   | 46,633 | 99.9%  |
| 90-180° | 68     | 0.1%   |
| 0-180°  | 46,701 | 100.0% |



## Branch Wiring Options

When ordering a plug, use the following suffix choices.

Example: 07-HBRHESR-302420L-3CCT-P515

Note: Cords & Plugs do not affect the ability to install sensors.

| Part number suffix | Description                     | For use with |
|--------------------|---------------------------------|--------------|
| P515               | NEMA plug - 125V 15A            | ALL MODELS   |
| P520               | NEMA plug - 125V 20A            |              |
| P515L              | NEMA plug twist-lock - 125V 15A |              |
| P520L              | NEMA plug twist-lock - 125V 20A |              |
| P615               | NEMA plug - 250V 15A            |              |
| P620               | NEMA plug - 250V 20A            |              |
| P615L              | NEMA plug twist-lock - 250V 15A |              |
| P620L              | NEMA plug twist-lock - 250V 20A |              |
| P715               | NEMA plug - 277V 15A            |              |
| P715L              | NEMA plug twist-lock - 277V 15A |              |
| P720L              | NEMA plug twist-lock - 277V 20A |              |



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LIGHTING**

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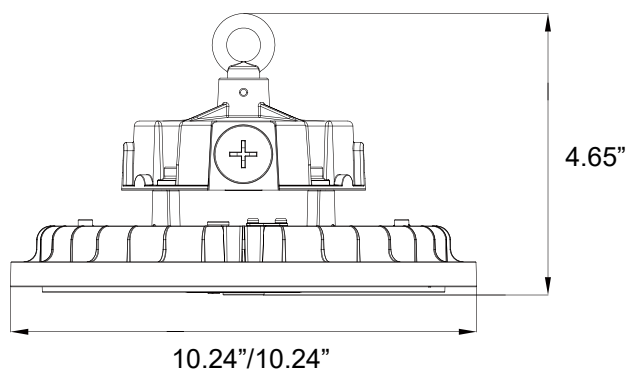
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## Dimensional Drawings

**07-HBRHESR-302420L-3CCT**



**07-HBRHESR-474133L-3CCT**

