

# Horner Hazardous Location Lighting



## High Bay Round

Hazardous Location Lighting Series

## ETG-HHR

### High Bay Round Series



## Product Description

The Horner High Bay Round Series is designed for installations where moisture, dirt, dust, corrosion and vibration may present, or NEMA 3 and 4X areas where wind, water, snow or high ambient can be expected.

They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

The High Bay Round Series is ideal for retrofit of existing HPS/MH 320W~1000W and offers higher efficacy for increased energy savings, lower maintenance costs and shorter paybacks.

## Features

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- High luminous efficacy-Up to 150 Lm/W
- Input Voltage: 100-277VAC, 347-480VAC (50/60Hz)
- Instant illumination and restrike-no warm-up time required
- Valid over the entire temperature range from -40°C ~ +65°C (-40°F ~+149°F)
- Safe and reliable heat transfer - Offering a T-rating of T4A ( CID2 / CIID1 / CIII )
- Thermal shock and impact resistant tempered glass or PC Lens
- Shock and vibration resistant-Durable LEDs with solderless board connection
- Anti-corrosion housing tested 1000hrs to standard ASTM”B117-11”
- All exposed fasteners with quality stainless steel 316
- High Temperature silicone gasketing

## Compliance

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### NEC/CEC Standard

UL844  
Class I Division 2, Group A, B, C, D  
Class II Division 1 Group E, F, G  
Class II Division 2, Group F, G  
Class III  
Class I, Zone 2, Group IIC  
Zone 21, Group IIC  
Simultaneous Presence  
UL 1598 Wet Locations  
UL 1598A Outside Type (Salt Water)  
IP66  
IK08(Glass) / IK10(PC)  
5G vibration  
1000hrs salt spray

## Application

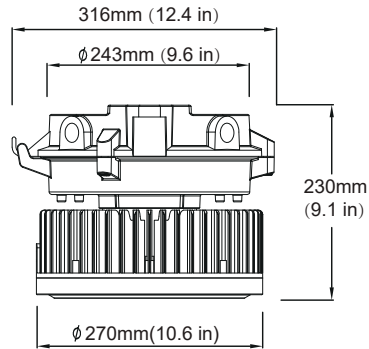
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- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Shipyards
- Chemical Processing Facility
- Petrochemical Processing Facility

## Warranty

5-Year Standard Manufacturers Warranty  
LED lumen Maintenance: L70>145,000 Operation Hours @55C°

## Product Dimensions



| Model  | Parts        | Net weight | Product Dimensions (LxWxH) | Gross weight | Package Dimensions (LxWxH) |
|--|--------------|------------|----------------------------|--------------|----------------------------|
| ETG-HHR-C1D2-WL750-150W<br>NJZ-FEL-M-150-V01-RZ-T5-25-TG | Flat<br>Lens | 9.2kg      | Φ 316x230mm                | 10.2kg       | 325x325x265mm              |
| ETG-HHR-C1D2-WL750-200W<br>NJZ-FEL-M-200-V01-RZ-T5-25-TG |              |            |                            |              |                            |

| Part #          | Description     | Note                                 | Single Package (LxWxH) | Net weight | Gross weight | Master Package (LxWxH) | Net weight | Gross weight |
|-----------------|-----------------|--------------------------------------|------------------------|------------|--------------|------------------------|------------|--------------|
| ETG-BKT-HHR-B24 | U-Bracket       | Master Box 8pcs,<br>2pcs/ single box | 255 x 255 x 89mm       | 3.2kg      | 3.8kg        | 385x285x282mm          | 12.8kg     | 14.0kg       |
| ETG-BKT-HHR-B35 | Wall mount- 90° | Master Box 4pcs,<br>1pc/ single box  | 418 x 167 x 169mm      | 1.9kg      | 2.5kg        | 430x375x360mm          | 10.0kg     | 11.2kg       |
| ETG-BKT-HHR-B32 | Stanchion - 25° | Master Box 4pcs,<br>1pc/ single box  | 393 x 129 x 152mm      | 1.0kg      | 1.4kg        | 410x340x295mm          | 5.6kg      | 6.5kg        |
| ETG-BKT-HHR-B33 | Stanchion - 90° | Master Box 4pcs,<br>1pc/ single box  | 373 x 183 x 152mm      | 1.0kg      | 1.4kg        | 390x340x295mm          | 5.6kg      | 6.5kg        |

## Mounting



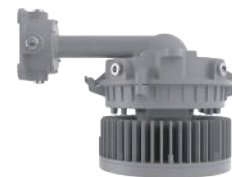
Pendant



Ceiling



Bracket



Wall



Stanchion 90°



Stanchion 25°



Safety cable installed

Electrical

| Specification     |              | ETG-HHR-C1D2-WL750-150W<br>ETG-HHR-C1D2-WL750-150W-P2 | ETG-HHR-C1D2-WL750-200W<br>ETG-HHR-C1D2-WL750-200W-P2 |
|-------------------|--------------|---|---|
| Rated Power       |              | 150W  | 200W  |
| MH Replacement    |              | 600~750W  | 750~1000W   |
| Input Voltage     |              | (P1)120-277VAC / (P2) 347-480VAC                      |   |
| Input Frequency   |              | 50/60Hz   |   |
| Power Factor      |              | ≥0.95   |   |
| Driver Efficiency |              | ≥90%  |   |
| Input Current     | (AC100-277V) | 1.49/0.51A  | 1.98/0.70A  |
|                   | (AC347-480V) | 0.43/0.30A  | 0.57/0.41A  |
| Surge Protection  |              | 10Kv  |   |

Optical

| Specification                      |  | ETG-HHR-C1D2-WL750-150W<br>ETG-HHR-C1D2-WL750-150W-P2 | ETG-HHR-C1D2-WL750-200W<br>ETG-HHR-C1D2-WL750-200W-P2 |
|------------------------------------|--|---|---|
| Lumen Output                       |  | 22500Lm   | 30000Lm   |
| Lumens Per Watt                    |  | 150Lm/W with T5; 130Lm/W with T1 or T3*               |   |
| Beam Angle                         |  | T1 / T3 / T5  |   |
| Correlated Color Temperature (CCT) |  | 5000K   |   |
| Color Rendering Index (CRI)        |  | Ra>70   |   |

\*value calculated based on 5000K ,varies to different spec

Environmental

| Specification                 |            | ETG-HHR-C1D2-WL750-150W<br>ETG-HHR-C1D2-WL750-150W-P2 | ETG-HHR-C1D2-WL750-200W<br>ETG-HHR-C1D2-WL750-200W-P2 |
|-------------------------------|------------|---|---|
| Ambient Operating Temperature |            | -40°C~+60°C/-40°F~+140°F                              | -40°C~+55°C/-40°F~+131°F                              |
| T-Code                        | CID2       | T4A   | T4A   |
|                               | CIID1/CIII |   |   |

Mechanical

| Specification    |  | ETG-HHR-C1D2-WL750-150W<br>ETG-HHR-C1D2-WL750-150W-P2               | ETG-HHR-C1D2-WL750-200W<br>ETG-HHR-C1D2-WL750-200W-P2 |
|------------------|--|---|---|
| Housing Material |  | Copper-free Aluminum  |   |
| Lens Material    |  | Glass(Clear/Frosted/Drop lens) PC(Clear/Frosted/Drop lens)          |   |
| Hardware         |  | Stainless steel 316   |   |
| Color            |  | Dark Grey (RAL7037)   |   |
| Finish           |  | Polyster powder coating for uniform corrosion resistance            |   |
| Protection       |  | IP66/IK08(Glass)/IK10(PC)/5G vibration/1000hrs salt spray           |   |
| Mounting         |  | Ceiling, Wall, Stanchion, Bracket, Pendant                          |   |
| Installation     |  | MIN 90 ° SUPPLY CONDUCTORS  |   |
| Cable Entries    |  | 3/4" NPT (Topx1 open & Sidex5 with stopping plugs)                  |   |
| Termination      |  | 3 x WAGO 221-415 (max. 4 mm <sup>2</sup> , 5-conductor,with levers) |   |
| Dimming          |  | 0-10V Dimming standard (Dim+, Dim-, 12V leads capped)               |   |

### Class I Locations

Class I locations are those in which inflammable gases or vapors are or may be present in sufficient quantities to produce explosive or flammable mixtures.

#### CLASS I, DIVISION 1

Class I, Division 1 locations are where hazardous atmosphere may be present during normal operations. It may be present continuously, intermittently, periodically or during normal repair or maintenance operations, or those areas where a breakdown in processing equipment releases hazardous vapors with the simultaneous failure of electrical equipment.

#### CLASS I, DIVISION 2

Class I, Division 2 locations are those in which volatile flammable liquids or gases are handled, processed or used. Normally they will be confined within closed containers or in closed systems from which they can escape only in the case of rupture or deterioration of the containers or systems.

### Class II Locations

Class II locations are those that are hazardous because of the presence of combustible dust.

#### CLASS II, DIVISION 1

Class II, Division 1 locations include areas where combustible dust may be in suspension in the air under normal conditions in sufficient quantities to produce explosive or ignitable mixtures (Dust may be emitted into the air continuously, intermittently or periodically), or where failure or malfunction of equipment might cause a hazardous location to exist and provide an ignition source with the simultaneous failure of electrical equipment, included also are locations in which combustible dust of an electrically conductive nature may be present.

#### CLASS II, DIVISION 2

Class II, Division 2 locations are those in which combustible dust will not normally be in suspension nor will normal operations put dust in suspension, but where accumulation of dust may interfere with heat dissipation from electrical equipment or where accumulations near electrical equipment may be ignited.

### Class III Locations

Class III locations are those considered hazardous due to the presence of easily ignitable fibers or flyings, which are in quantities sufficient to produce ignitable mixtures.

#### CLASS III, DIVISION 1

Locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used.

#### CLASS III, DIVISION 2

Locations where easily ignitable fibers are stored or handled.