



## Class 1 Division 2

### Key Features

**FEATURES:** Tunable Wattage  
Adjustable CCT

Compact Rugged Low-Bay/High-Bay Flood  
High Lumen Efficiency up to 165 lm/W  
Vibration and Impact Resistant

**OPTIONS:** 4 Body Sizes  
8 Mounting Styles  
T2, T3, T5, 40°, 60°, 90° or 120°  
Lens: Flat, Convex or Spherical / Clear or Frosted / Glass or PC  
High Voltage  
Emergency Back-Up

# Compliance

UL 844 Hazardous Locations  
Class I Division 2 Groups A, B, C, D  
Class II Division 1 Groups E, F, G  
Class II Division 2 Groups F, G  
Class III  
UL 1598 Suitable for Wet Locations  
UL 1598A Marine Saltwater

IP66  
IK08 (Without Wire Guard)  
IK10 (With Wire Guard)  
ABS  
DLC select versions

# Applications

## **Oil and Gas**

Petroleum production and refining  
Petroleum loading, storage, transportation and retail  
Confined spaces with vapor accumulation  
LNG and LPG handling  
Oil tankers and shipping vessels  
Fuel system testing facilities

## **Power Plants**

Coal-fired power plants, including coal handling and storage areas  
Gas-fired power plants with fuel storage  
Nuclear power facilities in hazardous auxiliary areas  
Biomass or waste-to-energy plants with combustible dust risks

## **Industrial**

Industrial storage facilities  
Paper mills, sawmills and lumber yards  
Loading dock platforms  
Manufacturing plants for heavy industrial goods  
Warehouses handling flammable materials

## **Waste Treatment**

Wastewater treatment plants  
Pumping stations  
Solid waste processing and incineration facilities  
Sewage treatment with methane gas risks  
Hazardous waste recycling centers

## **Mining**

Operations and service areas  
Underground mining tunnels with gas accumulation

## **Chemical Industry**

Chemical production, processing and storage facilities  
Solvent handling and mixing areas  
Chemical research labs with flammable substances

## **Ocean, Marine and Aerospace**

Offshore platform operation facilities and structures  
Marine and saltwater environments  
Aerospace clean rooms and production areas  
Ocean vessel operations  
Shipyards and dry docks  
Aircraft hangars with fuel vapors

## **Metal Treatment**

Paint facilities  
Steel and aluminum factories  
Metal smelting, foundry and fabrication  
Welding and cutting areas with gas risks

## **Military and Defense**

Ammunition storage and handling  
Fuel depots and refueling stations  
Explosives manufacturing  
Vehicle maintenance bays in hazardous zones

## **Food, Alcohol and Agriculture Industry**

Flour and fine particle production and storage  
Food and distilling production  
Grain storage elevators and silos  
Breweries and fermentation tanks  
Feed mills with dust risks  
Fertilizer production and storage

## **Pharmaceutical Industry**

Drug manufacturing and solvent handling  
Clean rooms with volatile compounds  
Pill coating and drying areas  
Research and development labs

**Other high humidity, high dust, high temperature and vapor locations**

# Specifications

|         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Wattage | 20 W | 25 W | 30 W | 35 W | 40 W | 50 W | 60 W | 70 W | 20 W | 30 W | 40 W | 50 W | 60 W | 80 W | 100 W | 20 W | 40 W | 50 W | 60 W | 80 W | 100 W | 120 W | 150 W | 180 W | 200 W | 240 W | 150 W | 180 W | 200 W | 250 W | 300 W | 350 W | 400 W | 500 W |
| Body    | B2   |      |      |      |      |      |      |      | B5   |      |      |      |      |      |       |      | BX   |      |      |      |       |       |       |       | B4    |       |       |       |       |       |       |       |       |       |

## OPTICAL

|                             |   |         |         |         |         |         |         |          |         |         |         |         |         |          |          |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |  |  |  |  |
|-----------------------------|---|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|----------|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|--|
| Lumen Output                | 3000 lm   | 3750 lm | 4500 lm | 5250 lm | 6000 lm | 7500 lm | 9000 lm | 10500 lm | 3000 lm | 4500 lm | 6000 lm | 7500 lm | 9000 lm | 12000 lm | 15000 lm | 3000 lm | 6000 lm | 7500 lm | 9000 lm | 12000 lm | 15000 lm | 18000 lm | 22500 lm | 27000 lm | 30000 lm | 36000 lm | 24750 lm | 29700 lm | 33000 lm | 41250 lm | 49500 lm | 57750 lm | 66000 lm | 82500 lm |  |  |  |  |
| Lumens Per Watt             | 150 lm/W  |         |         |         |         |         |         |          |         |         |         |         |         |          |          |         |         |         |         |          |          |          |          |          | 165 lm/W |          |          |          |          |          |          |          |          |          |  |  |  |  |
| Color Temperature: CCT      | <b>SELECTABLE: Standard</b> 5000K<br><b>Options:</b> 2700K- 6500K |         |         |         |         |         |         |          |         |         |         |         |         |          |          |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |  |  |  |  |
| CRI (Color Rendering Index) | >70   |         |         |         |         |         |         |          |         |         |         |         |         |          |          |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |  |  |  |  |
| Beam Angle                  | <b>Standard:</b> 120° <b>Options:</b> 40°/60°/90°/T2/T3/T5        |         |         |         |         |         |         |          |         |         |         |         |         |          |          |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |  |  |  |  |
| Dimming                     | 0-10V dimming   |         |         |         |         |         |         |          |         |         |         |         |         |          |          |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |  |  |  |  |

## ENVIRONMENTAL

|                                 |                                       |                                      |                                       |   |
|---------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|---|
| Ambient Operating Temperature   | T4A: -40°C to +55°C (-40°F to +131°F) | T5: -40°C to +60°C (-40°F to +140°F) | T4A: -40°C to +50°C (-40°F to +122°F) | 350W/400W<br>T5: -40°C to +55°C (-40°F to +131°F)<br>500W<br>T4: -40°C to +55°C (-40°F to +131°F) |
| Temperature Code                | T4 +55°C                              | T5 +60°C                             | T4A +50°C                             | T5 +55°C,<br>T4A +55°C  |
| Power Model (120-277VAC/347VAC) | SS-100VA-56BHL                        | SS-150VA-56BHL                       | XLG-240-H-ABL                         | 350W SS-500VP<br>400W/500W<br>SS-600VP  |

## MECHANICAL

|                  |  |
|------------------|--|
| Housing Material | Die-cast Aluminum  |
| Lens Diffuser    | <b>Standard:</b> Clear Flat Glass<br><b>Options:</b> Clear Flat Glass, Clear Convex Glass, Clear Flat PC, Clear Convex PC, Frosted Flat Glass, Frosted Convex PC, Clear Spherical Glass (B2), Frosted Spherical Glass (B2) |
| Hardware         | Stainless steel 304  |
| Fixture Color    | Grey RAL 7040 (Standard)   |
| Mounting         | Ceiling, Wall, Pole, Pendant   |
| Cable Entry      | 3/4" NPT   |
| LED Chip         | 2835   |
| Warranty         | 5 Year Standard Warranty   |

| ELECTRICAL      |  |                  |
|-----------------|--|------------------|
| Lifespan        | L70> 150,000 Operational Hours @ 55°C                    |                  |
| Input Voltage   | 120-277VAC, 120-347VAC, 277-480VAC                       |                  |
| Input Frequency | 50/60Hz  |                  |
| Power Factor    | > 0.95   |                  |
| LED Driver      | Sosen/Fahold (120-270VAC/120-347): Meanwell (200-480VAC) |                  |
| EMERGENCY       |  |                  |
| Emergency Time  | No Emergency Function                                    | 1.5 Hour, 3 Hour |

# Ordering Logic

ORDER EXAMPLE: HLL B EX 100W B5 D 50 D120 T

| (1) Product     | (2) Product Category | (3) Rated Input Wattage  | (4) Shape Series     | (5) Dimming                              |
|-----------------|----------------------|--|----------------------|--|
| HLL B           | EX - Explosion Proof | 80W: 80W/60W/40W [B2]<br>100W: 100W/80W/60W [B5]<br>200W: 200W/150W/120W [BX]<br><a href="#">Inquire About Additional Wattage Combinations:</a><br>B2: 20W, 25W, 30W, 35W, 40W, 50W, 60W, 70W<br>B5: 20W, 30W, 40W, 50W, 60W, 80W, 100W<br>BX: 20W, 40W, 50W, 60W, 80W, 100W, 120W, 150W, 180W, 200W, 240W<br>B4: 150W, 180W, 200W, 250W, 300W, 350W, 400W, 500W | B2<br>B5<br>BX<br>B4 | Blank - Non-Dimmable<br>D - Dimmable (S) |
| (6) Kelvin      | (7) Beam Angle       | (8) Lens   | (9) Dual Tunable     | (10) Backup Power Source                 |
| 27 - 2700 K     | D40 - 40°            | CFG or Blank - Clear Flat Glass (S)  | T - With Tunable     | Blank - Without Emergency Battery (S)    |
| 40 - 4000 K     | D60 - 60°            | CCG - Clear Convex Glass   |                      | EM - Emergency Battery (B5, BX & B4)     |
| 50 - 5000 K (S) | D90 - 90°            | CFP - Clear Flat PC  |                      |  |
| 57 - 5700 K     | D120 - 120° (S)      | CCP - Clear Convex PC  |                      |  |
| 65 - 6500 K     | T2 - 60°             | CSG - Clear Spherical Glass (B2)   |                      |  |
|                 | T3 - 90°             | FFG - Frosted Flat Glass   |                      |  |
|                 | T5 - 120°            | FCG - Frosted Convex Glass   |                      |  |
|                 |                      | FSG - Frosted Spherical Glass (B2)   |                      |  |

(S) Standard

# Accessories



45° Bracket



Bracket



Lifting Hook



EX Junction Box



90° Stanchion Pole Mount



25° Stanchion Pole Mount



Threaded Pipe



Bent Threaded Pipe



Chain

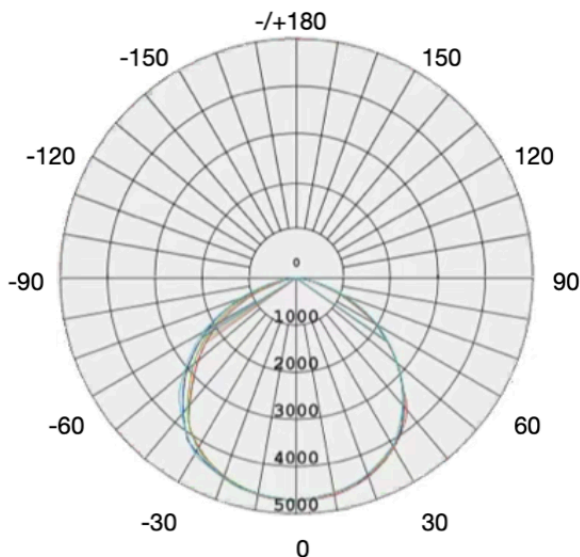


25° Stanchion Junction Box



90° Stanchion Junction Box

# Photometric



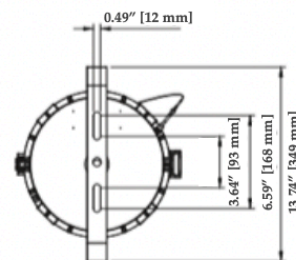
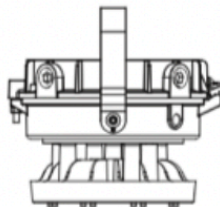
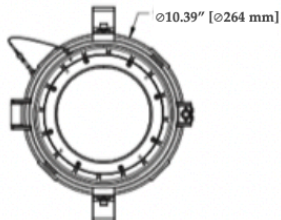
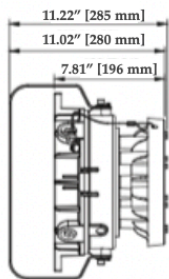
120 Degree

Average Beam Angle (50%): 112.1 Degree

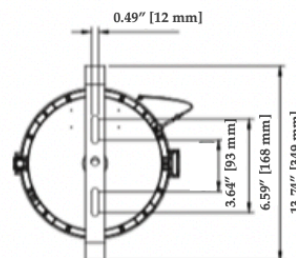
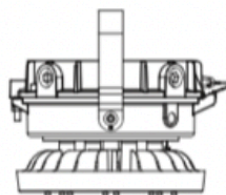
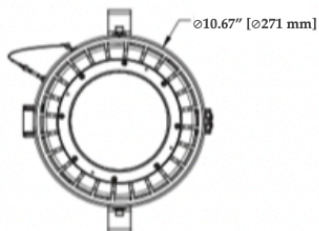
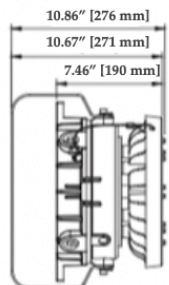
- UNIT: cd
- C0/180,109.6°
  - C30/210,111.2°
  - C60/240,113.1°
  - C90/270,114.7°

# Product Dimensions

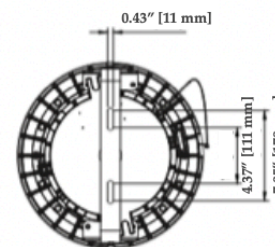
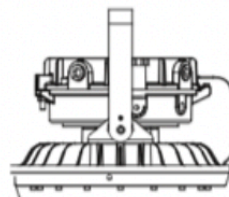
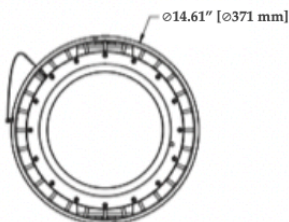
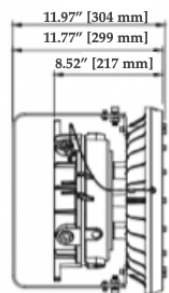
**B2**



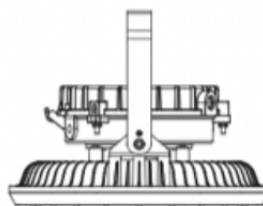
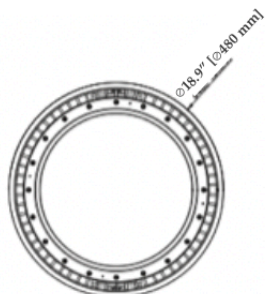
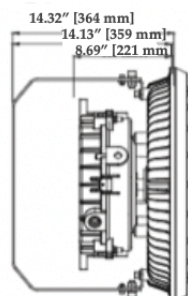
**B5**



**BX**



**B4**

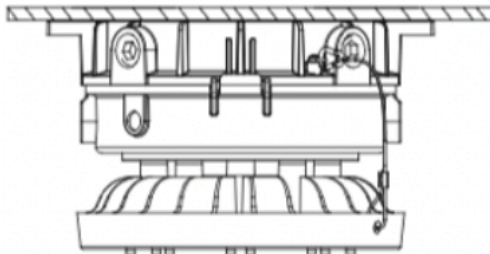


# Packaging Information

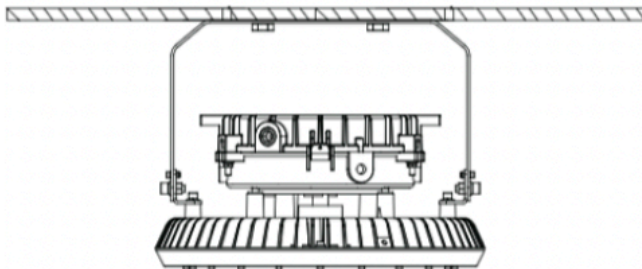
|                    | B2  | B5  | BX  | B4  |
|--------------------|---|---|---|---|
| Pieces             | 1   | 1   | 1   | 1   |
| Fixture Dimensions | See Product Dimensions Drawing                      | See Product Dimensions Drawing                      | See Product Dimensions Drawing                      | See Product Dimensions Drawing                      |
| Package Dimensions | 17.72" x 17.72" x 11.81"<br>(450mm x 450mm x 300mm) | 17.72" x 17.72" x 11.81"<br>(450mm x 450mm x 300mm) | 17.72" x 17.72" x 12.60"<br>(450mm x 450mm x 320mm) | 22.64" x 22.64" x 14.02"<br>(575mm x 575mm x 356mm) |
| Net Fixture Weight | 14.11 lb (6.4kg)                                    | 16.09 lb (7.3 kg)                                   | 25.13 lb (11.4kg)                                   | 37.48 lb (17.0 kg)                                  |
| Gross Weight       | 15.65 lb (7.1 kg)                                   | 18.08 lb (8.2kg)                                    | 27.34 lb (12.4 kg)                                  | 51.81 lb (23.5 kg)                                  |

# Mounting Methods

## Option 1: Ceiling Mount



## Option 2: Bracket Mount

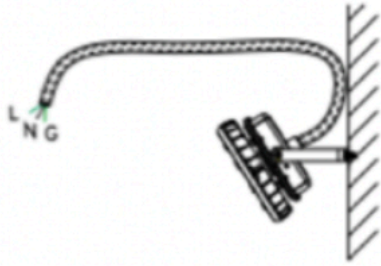


## Accessory



**Bracket**

**Option 3: Wall Mount**

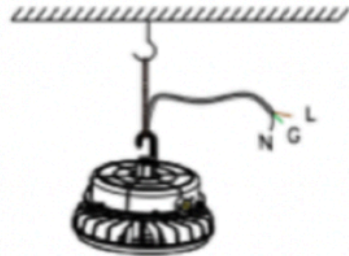


**Accessory**

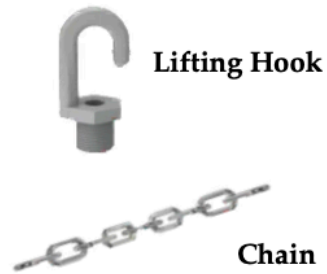


**Bracket**

**Option 4: Hook & Chain Mount**



**Accessory**



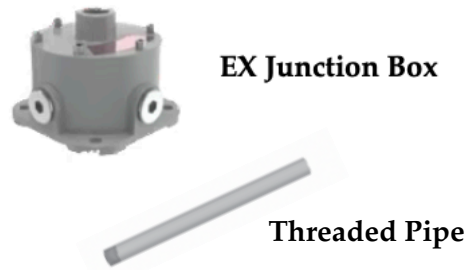
**Lifting Hook**

**Chain**

**Option 5: Pendant Mount**



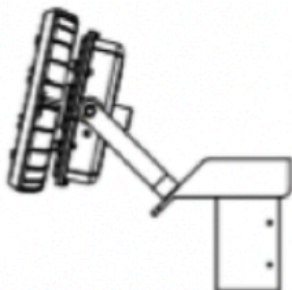
**Accessory**



**EX Junction Box**

**Threaded Pipe**

**Option 6: 45° Pole Mount**

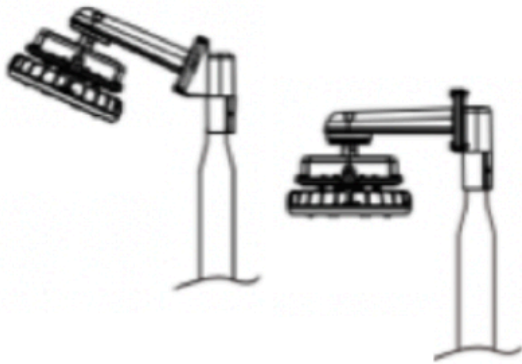


**Accessory**



**45° Bracket**

**Option 7: Stanchion Pole Mount**



**Accessory**

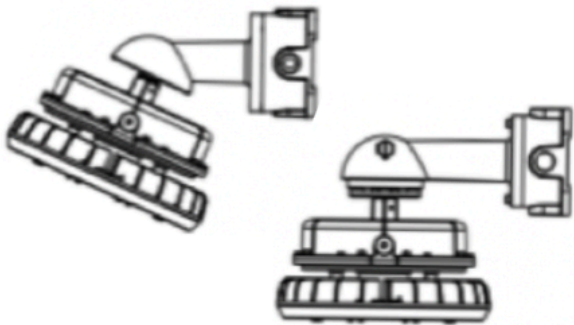


**25° Stanchion Pole Mount**



**90° Stanchion Pole Mount**

**Option 8: Wall Stanchion Mount With Junction Box**



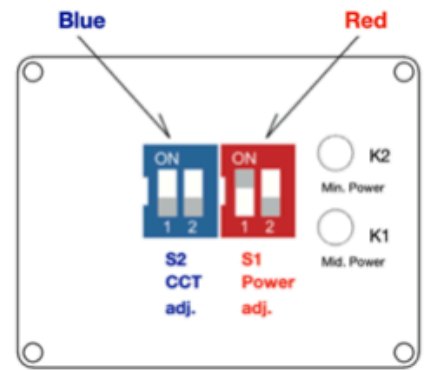
**Accessory**



**25° Stanchion Junction Box**






**90° Stanchion Junction Box**



## OPERATING INSTRUCTIONS




### S1 DIP SWITCH - RED (S1 Power adj.)

**The power adjustment dial switch can be set to three power levels, and the factory default setting can be defined according to order requirements.**

-  First gear (Max. power), 100% full power.  
Operation instructions: Dial 1 and 2 are both in the OFF position;  
Example: 100W
-  Second gear (Mid. power), 70%-80% power, can be set according to the required power.  
Operation instructions: Dial 1 is in the ON position, Dial 2 is in the OFF position;  
Example: 80W
-  Third gear (Min. power), 50%-60% power, can be set according to the required power.  
Operation instructions: Dial 1 is in the OFF position, Dial 2 is in the ON position;  
Example: 60W

### S2 DIP SWITCH - BLUE (S2 CCT adj.)

**The color temperature dial switch can be set to three levels of color temperature, and the factory default setting can be defined according to order requirements.**

-  First gear, the cold white temperature gear, for example, 6500K.  
Operation instructions: Dial 1 and 2 are both in the OFF position;  
6500K
-  Second gear, the neutral temperature gear, for example, 5000K.  
Operation instructions: Dial 1 is in the ON position, and Dial 2 is in the OFF position;  
5000K
-  Third gear, the warm white temperature gear, for example, 4000K.  
Operation instructions: Dial 1 and 2 are both in the ON position;  
4000K

#### (1) Power Adjuster:

Connect to the 0/1-10V dimming port of the LED driver.

#### (2) CCT Adjuster:

Connect the output voltage of the LED driver:  
DC20 - 60V LED driver maximum no - load output voltage: 68V max

#### (3) The three - gear power setting principle is as follows:

The first gear is 100%, the second gear is 70 - 80%, and the third gear is 50 - 60%.  
The minimum setting cannot be lower than 50%.