



**BPO LIGHTING**  
*Hazardous Area Lighting*

# HLL S



Flame-proof and Increased Safe Type



Cover (Optional)



Convex Glass (Optional)

## Class 1 Division 1

### Key Features

- |                  |   |
|------------------|---|
| <b>FEATURES:</b> | Round Low-Bay Area Light (Rugged)<br>Compact<br>Low Mounting<br>Cost Effective<br>Flame Proof<br>High Heat<br>Designed for Jib and Cranes |
| <b>OPTIONS:</b>  | 2 Body Sizes<br>4 Mounting Styles<br>Convex or Flat Glass<br>High Voltage<br>40°, 60°, 90° or 120°  |

# Compliance

UL 844 Hazardous Locations  
Class I Division 1 Groups B, C, D  
Class I Division 2 Groups A, B, C, D  
Class II Division 1 Groups E, F, G  
Class II Division 2 Groups F, G  
1, 2, 21, 22  
Class III  
UL 1598 Suitable for Wet Locations  
UL 1598A Marine Saltwater

IP66  
IK08 (Glass Cover)  
IK10 (With Wire Guard)  
1000 Hours Salt Spray  
ABS  
3G

# Applications

## **Oil and Gas**

Petroleum production and refining  
Petroleum loading, storage, transportation and retail  
Confined spaces with vapor accumulation  
LNG and LPG handling  
Oil tanker 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**

Industrials Storage Facility  
Paper mills, Sawmills and lumber yards  
Loading Docks 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  
Underground mining tunnels with gas accumulation

## **Chemical Industry**

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

## **Ocean, marine and aerospace**

Ocean platform operation facilities and structure  
Marine & Saltwater Environments  
Aerospace clean room and production  
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	Max. 80W	Max. 150W
Body	S1	S2

## OPTICAL

Lumen Output	10400 lm	19500 lm
Lumens Per Watt	130 lm/W	
Color Temperature: CCT	5000K (standard), 3000-6500K optional	
CRI (Color Rendering Index)	>70	
Beam Angle	120° Standard 40°, 60°, 90°option	

## ENVIRONMENTAL

Ambient Operating Temperature	-40°C to +65°C (-40°F to +149°F)
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## MECHANICAL

Housing Material	Aluminum Alloy ADC12	
Lens Diffuser	Tempered glass: Flat (Standard) Convex Option	
Mounting	Pole (25°/90°), Jib, U-bracket	
Cable Entry	3/4" NPT	
Warranty	5 Year Standard Warranty	5 Year Standard Warranty

## ELECTRICAL

Lifespan	L70> 150,000 Operational Hours @ 55°C	
Input Voltage	120-277VAC, 200-480VAC	
Input Frequency	50/60Hz	
Power Factor	> 0.95	

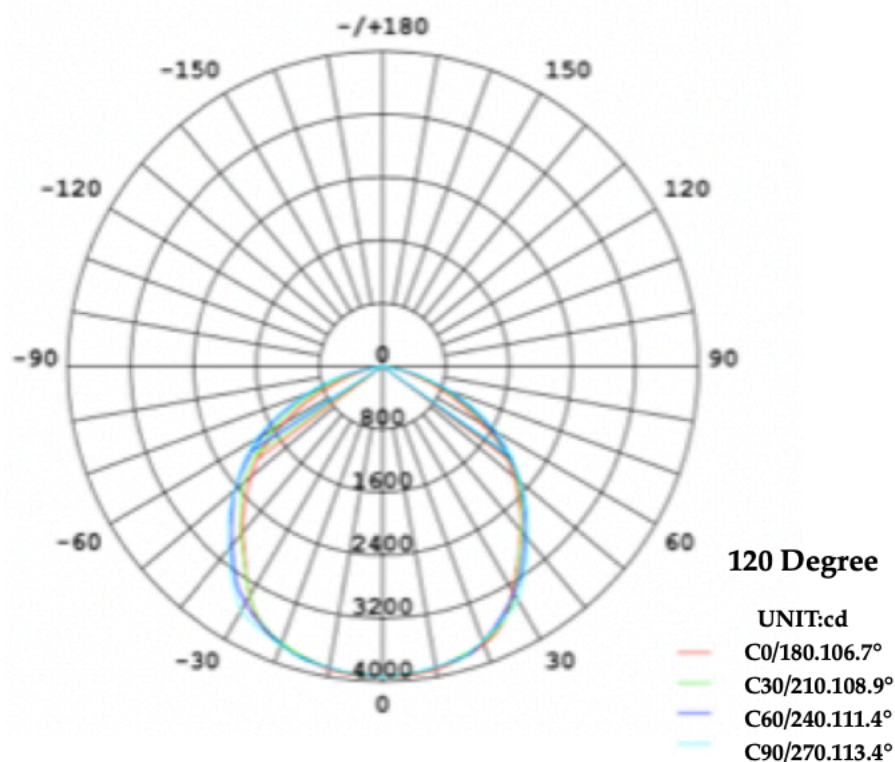
# Ordering Logic

ORDER EXAMPLE: HLL S EX 80W S1 D 5K 120 U

(1) Product	(2) Product Category	(3) Wattage	(4) Shape Series	(5) Dimming
HLL S	EX - Explosion Proof	80W (10,400 lm) 150W (19,500 lm)	S1 - S1 (80w) S2 - S2 (150W)	D - Dimmable N - Non-Dimmable
(6) Kelvin	(7) Beam Angle		(9) Mount	
3K - 3000 K	40 - 40°		U - U Bracket Mounting	
4K - 4000 K	60 - 60°		P90 - Pole Mount 90°	
5K - 5000 K (S)	90 - 90°		P25 - Pole Mount 25°	
	120 - 120° (S)		J - Jib Mounting	

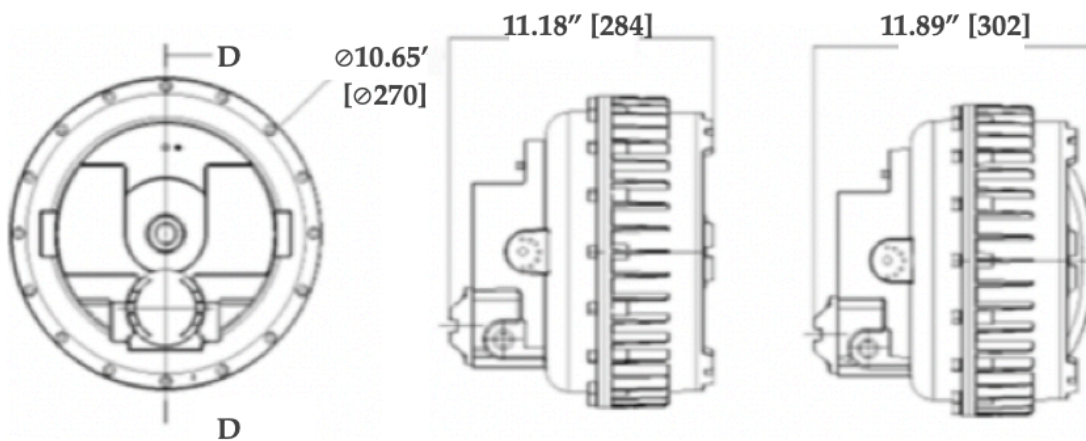
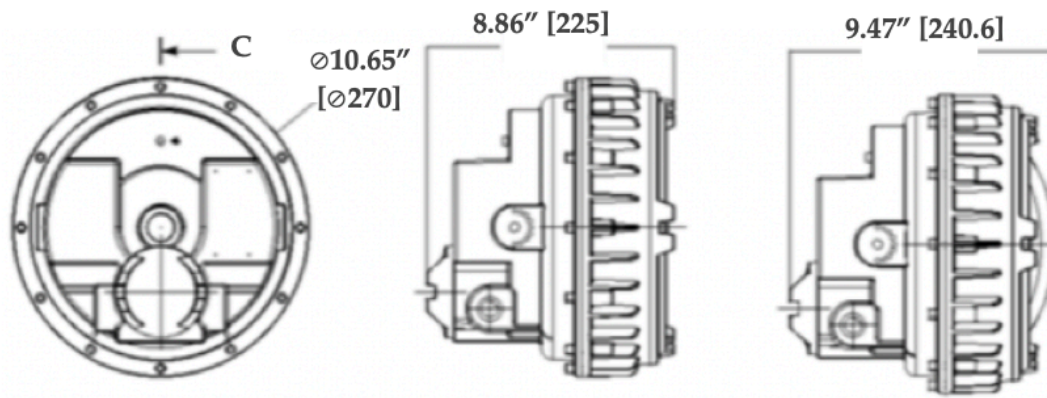
(S) Standard

# Photometric



Average Beam Angle (50%):110.1 DEG

# Product Dimensions





## Packaging Information

	S1	S2
Pieces	1	1
Fixture Dimensions	See Product Dimensions Drawing	See Product Dimensions Drawing
Package Dimensions	16.54 x 18.50 x 12.60 IN (420 x 470 x 320 MM)	19.69 x 18.5 x 15.75 IN (500 x 470 x 400 MM)
Net Fixture Weight	9.5 kg/ 20.9 lb	18.02 kg/ 39.7 lb
Gross Weight	11.65 kg/ 25.7 lb	20.55 kg/ 45.3 lb

## Mounting Methods

**Option 1: Stanchion 90° Mounting**



**Option 2: Stanchion 25° Mounting**



**Option 3: Bracket Mounting**

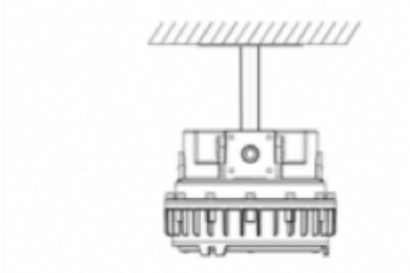


**Accessory**

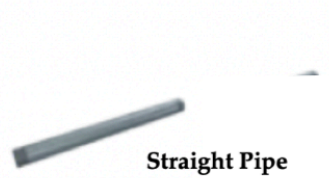


**Bracket**

#### Option 4: Pendant Mounting



#### Accessory



## Cable Installation

1. Ensure all the power is turned off.
2. Open the junction box.
3. Install 3/4" trade size conduit to 3/4" NPT adapter on the luminaire.
4. Connect the L, N, G from branch to the slots of terminal block, according to the marking on terminal block.
5. Close the power connecting cavity.

