



**BPO LIGHTING**  
*Hazardous Area Lighting*

# HLL B



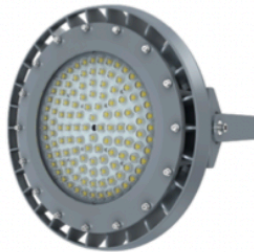
Convex  
Glass Cover  
Optional)



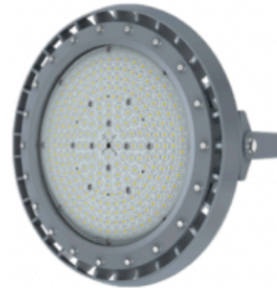
B2



B



B3



B4



Globe Glass  
With Wire Guard  
(Optional)



## Class 1 Division 2

### Key Features

**FEATURES:** Round High-Bay/Low-Bay Area Light (Rugged)  
9 Mounting Styles  
High lm/W

**OPTIONS:** 4 Body Sizes  
High Voltage  
40°, 60°, 90° or 120°  
Emergency Back-Up

# Compliance

UL 844 Hazardous Locations  
Class I Division 2 Groups A, B, C, D  
Class I, Zone 2, Group IIC  
Class II Division 1 Groups E, F, G  
Class II Division 2 Groups F, G  
Class II, Zone 21, Group IIIC  
Zone 2, 21,22  
Class III  
UL 1598 Suitable for Wet Locations  
UL 1598A Marine Saltwater  
UL 924 Emergency Lighting

IP66  
IP67  
IK08 (Glass Cover)  
IK10 (With Wire Guard)  
1000 Hours Salt Spray  
ETL (ATM for Report 105342415DAL-001)  
ABS  
CB (Ref. Certif. No.: DE 2-038462-M1)  
NSF  
EX II 3G Ex ec IIC T6...T3 Gc  
EX II 2D Ex tb IIIC T85°C...T103°C Db  
Ex ec IIC T6...T3 Gc  
Ex tb IIIC T85°C...T100°C Db  
DLC qualification varies for product 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	20W	40W	60W	80W	100 W	120 W	150 W	200 W	250 W	300 W	350 W	400 W
Body	B2		B		B3				B4			
Lumen Output	2800 lm	5600 lm	8400 lm	11200 lm	14000 lm	16800 lm	21000 lm	28000 lm	35000 lm	42000 lm	49000 lm	56000 lm
Lumens Per Watt	140 lm/W											
Color Temperature: CCT	5000K (standard), 2700-7000K optional											
CRI (Color Rendering Index)	>70											
Beam Angle	120° Standard 40°, 60°, 90°option											
Dimming	0-10V dimming											

## ENVIRONMENTAL

Ambient Operating Temperature	T3: -40°C to +50°C (-40°F to +122°F)	T3: -40°C to +40°C (-40°F to +104°F)	T3: -40°C to +55°C (-40°F to +131°F)	T3: -40°C to +40°C (-40°F to +104°F)
Temperature Code	T3 (+50°C)	T3 (+40°C)	T3 (+55°C)	T3 (+40°C)

## MECHANICAL

Housing Material	Copper-free aluminum		
Lens Diffuser	Tempered glass & PC		
Hardware	Stainless steel		
Fixture Color	Grey RAL 7040 (Standard)		
Mounting	Ceiling, Wall, Pole, Hook Pendant, Stanchion, Wall, Trunnion	Ceiling, Wall, Pole, Hook Pendant, Stanchion, Wall	
Cable Entry	<b>Top:</b> 3/4" NPT (standard); M25 Option <b>Side:</b> 3/4" NPT (standard); M20, M25, 1/2" NPT Option		
Warranty	5 Year Standard Warranty		

## ELECTRICAL

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

## EMERGENCY

Emergency Time	R2: No Emergency Function	ROptional
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## Ordering Logic

ORDER EXAMPLE: HLL B EX 100W B3 D 5K 120

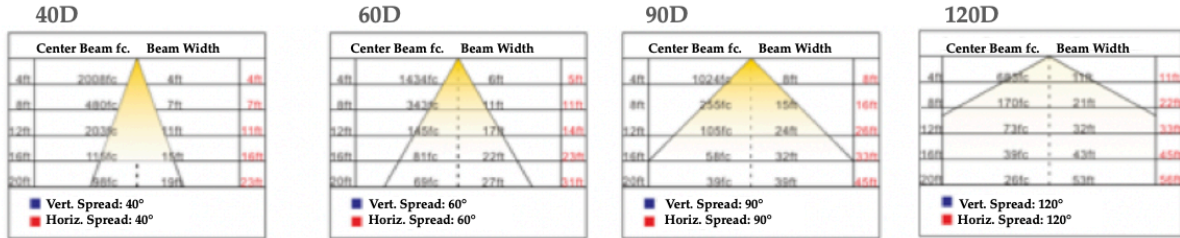
(1) Product	(2) Product Category	(3) Wattage	(4) Shape Series	(5) Dimming	(6) Kelvin
HLL B	EX - Explosion Proof	20W (2,800 lm)	B - 60/80W	D - Dimmable	3K - 3000 K
		40W (5,600 lm)	B2 - 20/40W	N - Non-Dimmable	4K - 4000 K
		60W (8,400 lm)	B3 - 100/120/150/200W		5K - 5000 K(S)
		80W (11,200 lm)	B4 - 250/300/350/400W		
		100W (14,000 lm)			
		120W (16,800 lm)			
		150W (21,000 lm)			
		200W (28,000 lm)			
		250W (35,000 lm)			
		300W (42,000 lm)			
		350W (49,000 lm)			
		400W (56,000 lm)			
(7) Beam Angle	(8) Cover Option	(9) Voltage	(10) Optional		
40 - 40°	Blank - Non Long Glass Clover	Blank - U 100-277	Blank - Without Emergency Function		
60 - 60°	C - Long Glass Cover	HV - 480	EM - Emergency Back Up*		
90 - 90°					
120 - 120° (S)					

(S) Standard \*EM Available 60W and above

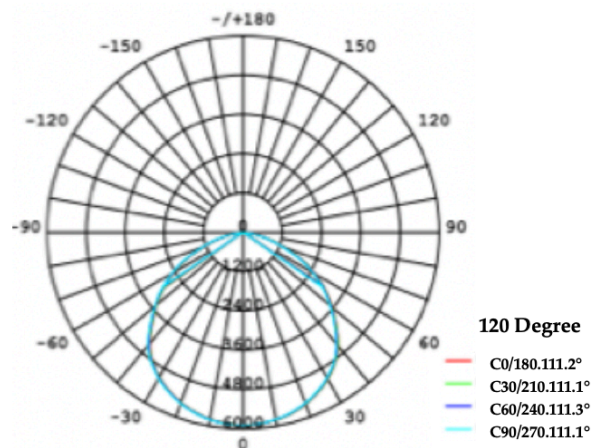
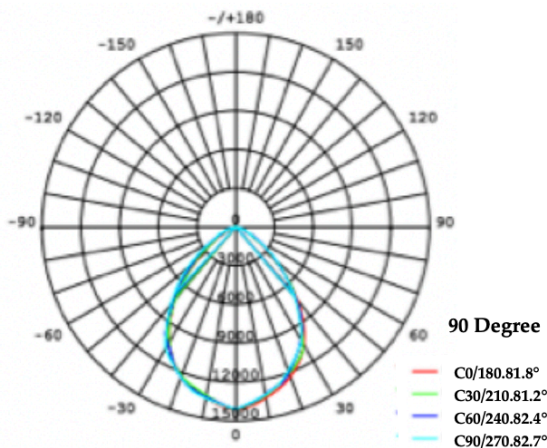
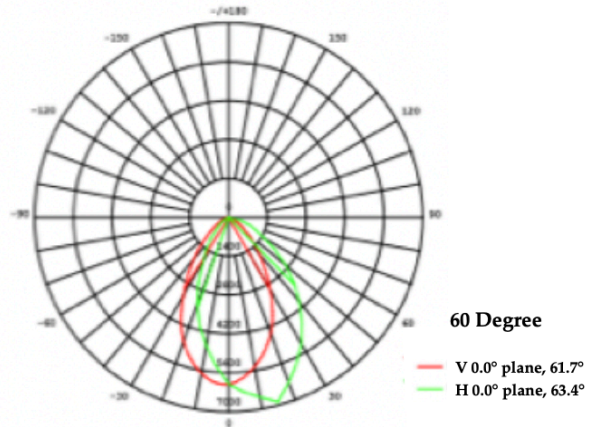
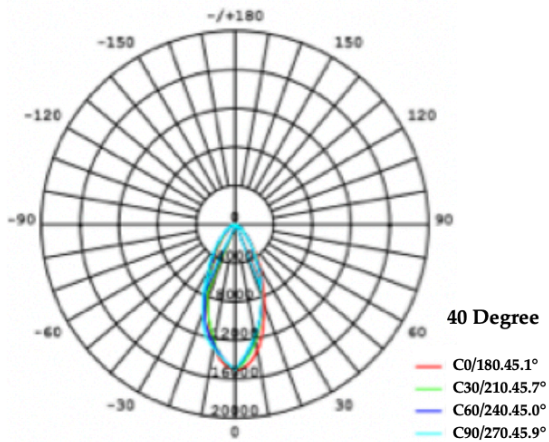
## Accessories

	Junction Box		Installation Hook		Metal Conduit
	Winding Swing Pipe		Straight Pipe		Pendant Direction Adapter
	Surface Mounting Arm		25° Pole Support		90° Pole Support
	90° Arm to Junction Box		25° Arm to Junction Box		25° Direct Mounting Arm

# Light Distribution

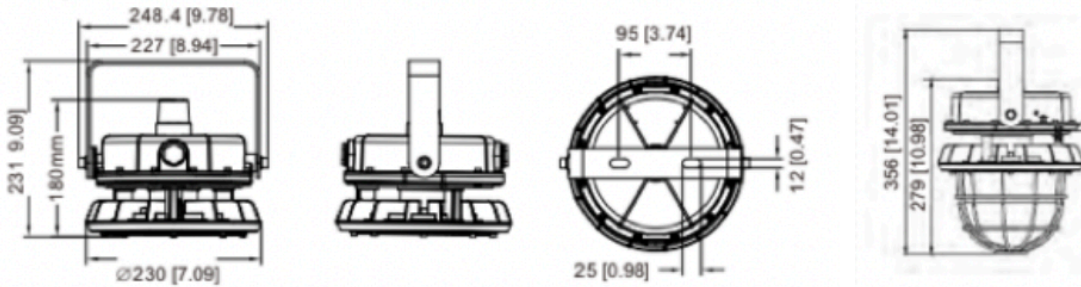


# Photometric

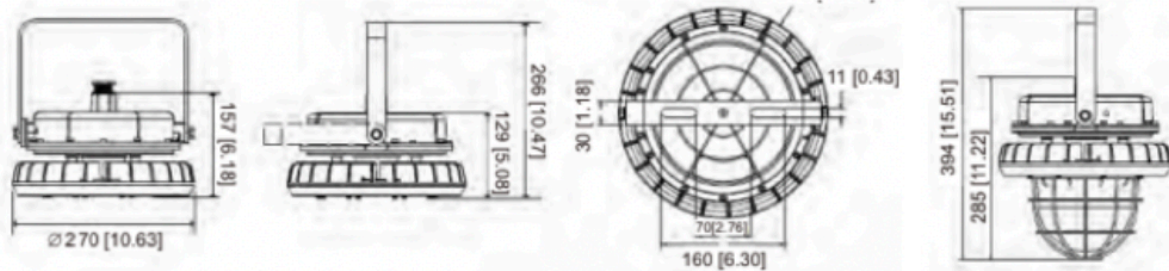


# Product Dimensions

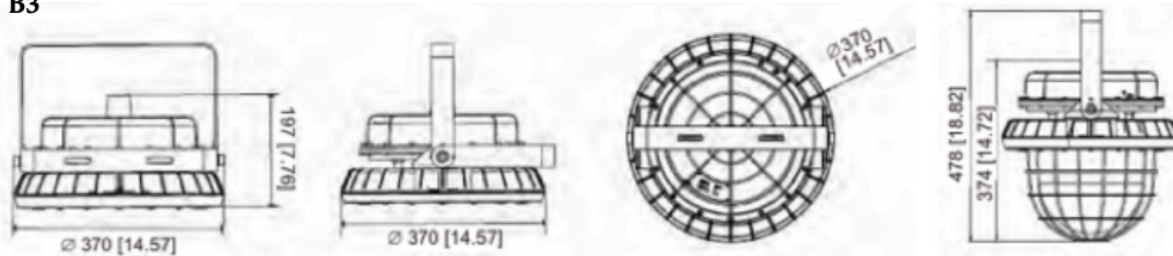
## B2



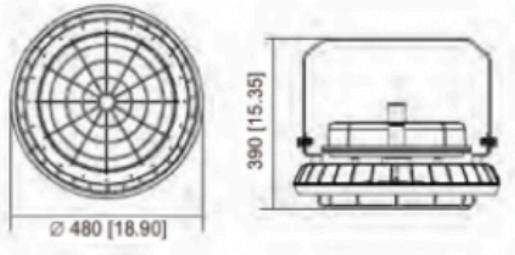
## B



## B3



**B4**

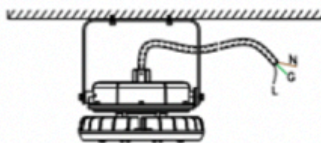


## Packaging Information

	B2	B	B3	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	14.17 x 13.94 x 10.24 IN (360 x 354 x 260 MM)	15.75 x 13.78 x 9.84 IN (400 x 350 x 250 MM)	19.69 x 18.90 x 11.42 IN (500 x 480 x 290 MM)	23.23 x 23.23 x 12.20 IN (590 x 590 x 310 MM)
Net Fixture Weight	3.5 kg/7.72 lb	4.4 kg/9.70 lb	8.2 kg/18.08 lb	17.0 kg/37.48 lb.
Gross Weight	5.0 kg/11.02 lb	5.65 kg/12.46 lb	10.6 kg/23.37 lb	20.5 kg/45.19 lb

## Mounting Methods

### Option 1: Ceiling Mounting



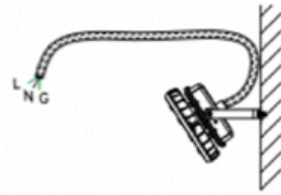
### Accessory



Bracket

**Option 2: Wall Mounting**

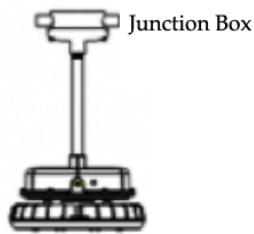
**Accessory**



Bracket

**Option 3: Pole Pendant Mounting (Vertical)**

**Accessory**

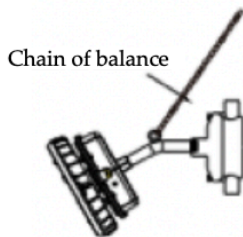


Junction Box

Straight Pipe

**Option 4: Pole Pendant Mounting (Non-Vertical)**

**Accessory**



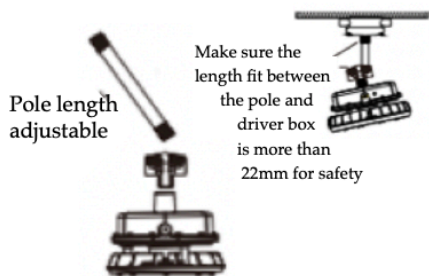
Junction Box

Bended Pipe

Straight Chain

**Option 5: Pole Pendant Mounting (Adjustable Pole Installation)**

**Accessory**

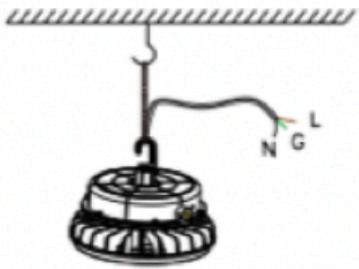


Junction Box

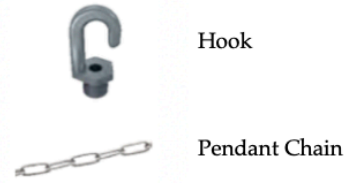
Straight Pipe

Pendant Direction Adapter

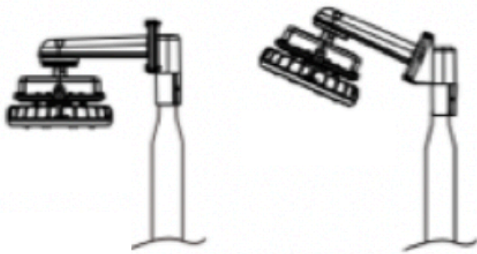
**Option 6: Hook Pendant Mounting**



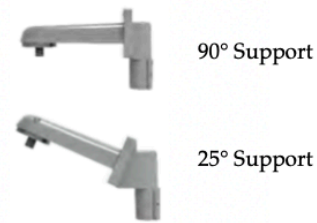
**Accessory**



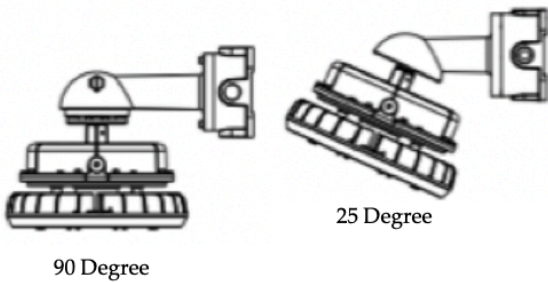
**Option 7: Stanchion Mounting**



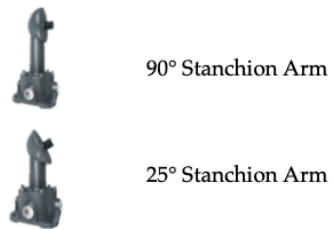
**Accessory**



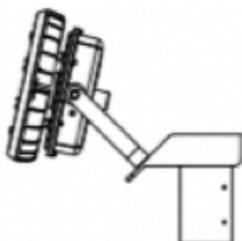
**Option 8: Wall Mounting to Junction Box**



**Accessory**



**Option 9: Trunnion Mounting (Only for B and B2)**



**Accessory**



# Cable Installation

**Compatible with NPT1 thread with an adapter**

