



**BPO LIGHTING**  
*Hazardous Area Lighting*

# HLL ST



ST1

ST2



## Class 1 Division 2

### Key Features

- |                  |   |
|------------------|---|
| <b>FEATURES:</b> | Street Light (Rugged)<br>High lm/W<br>7 Mounting Styles |
| <b>OPTIONS:</b>  | 2 Body Sizes<br>40°, 60°, 90°, 120°, T3 or T5           |

# 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  
Class III  
UL 1598 Suitable for Wet Locations

IP66  
IP67  
IK06 (without wire guard)  
IK07 (without wire guard)  
IK09 (with wire guard)  
1000 hours salt spray  
Ex II 2 G Ex eb mb IIC T6... T4 Gb (Zone 1)  
Ex II 2 D Ex tb IIIC T95°C... T125°C Db 166 (Zone 1)  
Ex II 3G Ex ec mb IIC T6... T4 Gc (Zone 2)  
Ex II 2D Ex tb IIIC T80°C... T125°C Db (Zone 2)  
Ex eb mb IIC T6...T4 Gb (Zone 1)  
Ex tb IIIC T95°C... T125°C Db IP66 (Zone 1)  
Ex ec mb IIC T6...T4 Gc (Zone 2)  
Ex tb IIIC T80°C... T125°C Db (Zone 2)

# 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	200W	250W	100W	150W
Body	STA1	STA2		

## OPTICAL

Lumen Output	28000lm	35000lm	14000lm	21000lm
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°, T3, T5 option			
Dimming	0-10V dimming			

## ENVIRONMENTAL

Ambient Operating Temperature	-40°C to +55°C (-40°F to +131°F)
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## MECHANICAL

Housing Material	ADC 12 Aluminum
Lens Diffuser	Tempered Glass
Hardware	Stainless Steel
Mounting	Pole, Trunnion, Arm, Slip Fitter, Bracket, Stanchion
Warranty	5 Year Standard Warranty

## ELECTRICAL

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

# Ordering Logic

ORDER EXAMPLE: HLL ST EX 150W STA2 D 5K 120

(1) Product	(2) Product Category	(3) Wattage	(4) Shape Series
HLL ST	EX - Explosion Proof	100W (14,000 lm) 150W (21,000 lm) 200W (28,000 lm) 250W (35,000 lm)	STA1 - 200/250W STA2 - 100/150W
(5) Dimming		(6) Kelvin	(7) Beam Angle
D - Dimmable N - Non-Dimmable		3K - 3000 K 4K - 4000 K 5K - 5000 K (S)	40 - 40° 60 - 60° 90 - 90° 120 - 120° (S) T3 T5

(S) Standard

## Accessories



Hardware  
Mounting Bracket



Slip Fitter  
Mounting Kit



Trunnion Mounting Kit



Light Pole  
Mounting Bracket



Arm Mounting Kit A



Hoop

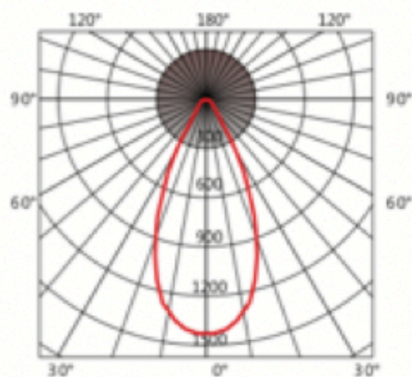


Adapter Bracket

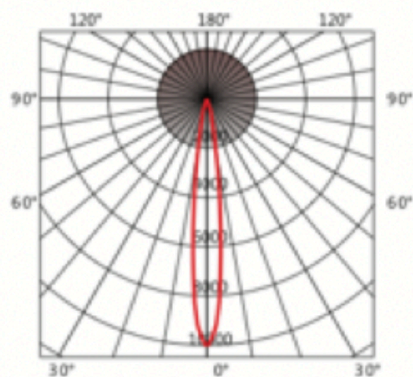


Adjustable Arm  
Mounting Kit B

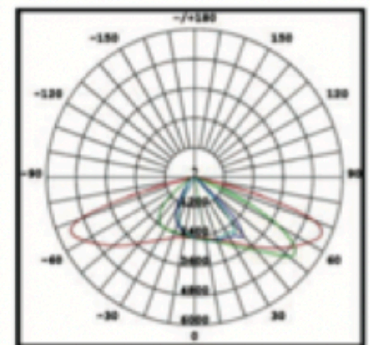
# Light Distribution



Ratio of Distance to Height: 0.7

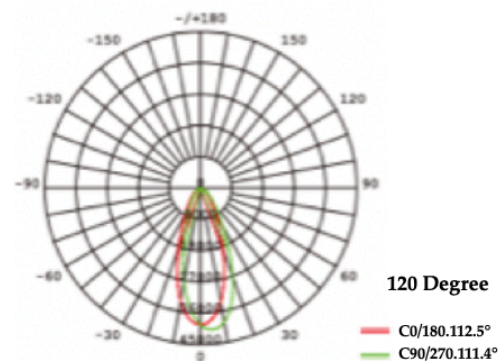
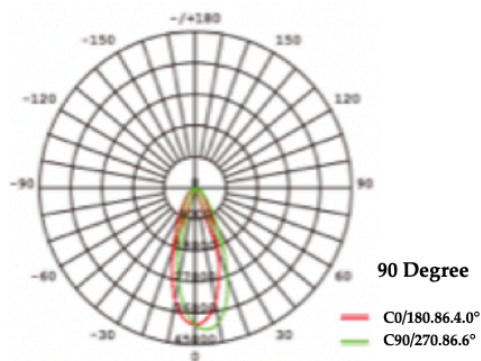
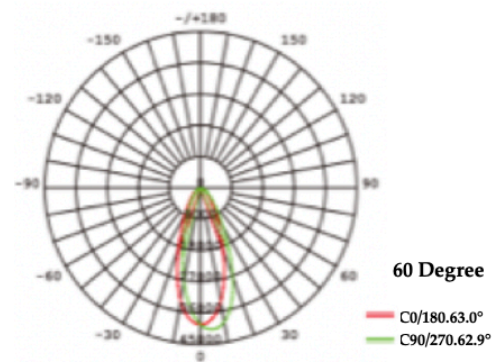
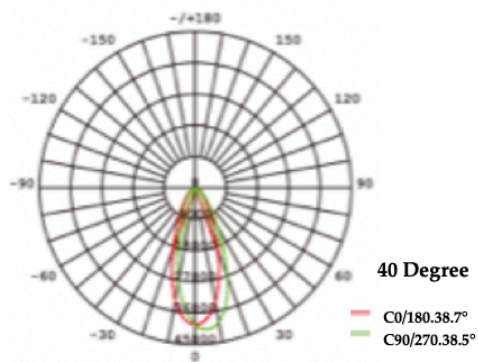


Ratio of Distance to Height: 0.23

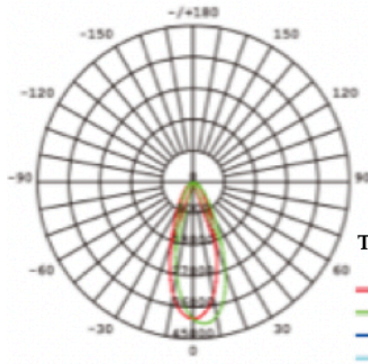


Type III

# Photometric

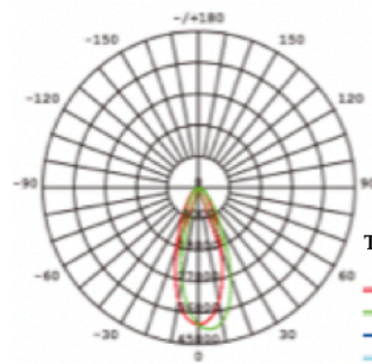






T3 (With Glass)

C0/180.132.4°  
 C30/210.119.0°  
 C60/240.108.5°  
 C90/270.109.1°

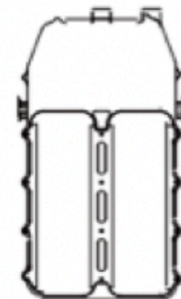
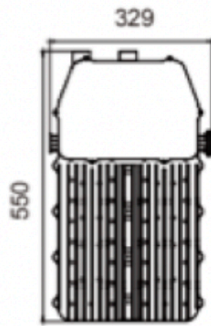


T5 (With Glass)

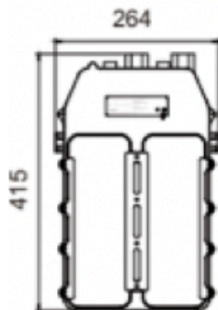
C0/180.129.5°  
 C30/210.135.4°  
 C60/240.140.8°  
 C90/270.140.3°

## Product Dimensions

ST1



ST2

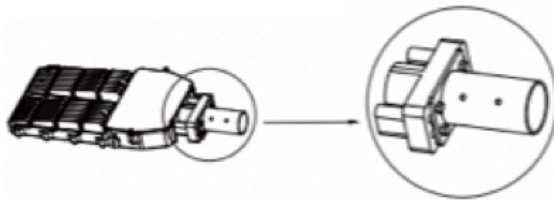


# Packaging Information

	STA1	STA2
Pieces	1	1
Fixture Dimensions	See Product Dimensions Drawing	See Product Dimensions Drawing
Package Dimensions	33.66 x 14.76 x 8.89 IN (855 x 375 x 226 MM)	22.05 x 12.60 x 5.00 IN (560 x 320 x 127 MM)
Net Fixture Weight	20.94 lb 9.5 kg	14.33 lb 6.5 kg
Gross Weight	23.15 lb 10.5 kg	16.53 lb 7.5 kg

## Mounting Methods

### Option 1: Pole Mounting



#### Accessory

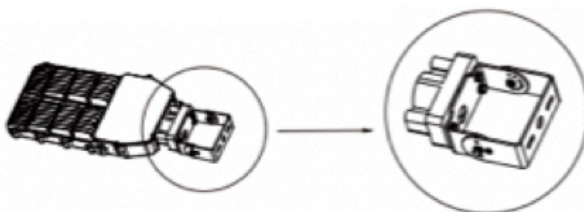


Adapter Bracket



Light Pole  
Mounting Bracket

### Option 2: Trunnion Mounting



#### Accessory

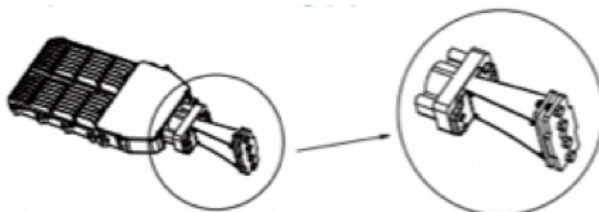


Adapter Bracket



Trunnion Mounting Kit

### Option 3: Arm Mounting (A)



#### Accessory

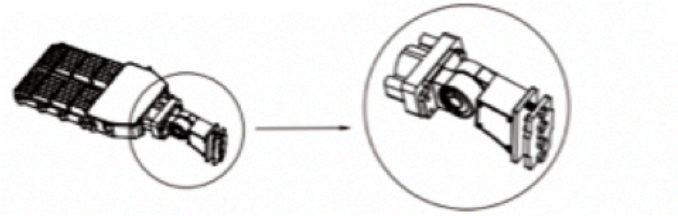


Adapter Bracket



Arm Mounting Kit A

#### Option 4: Arm Mounting (B)



#### Accessory

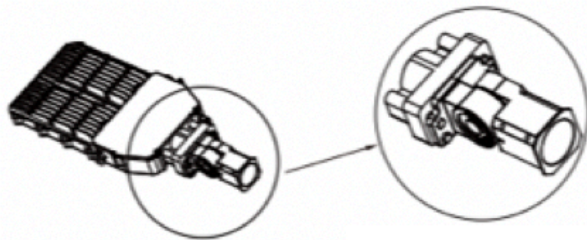


Adapter Bracket



Arm Mounting Kit B

#### Option 5: Slip Fitter Mounting



#### Accessory

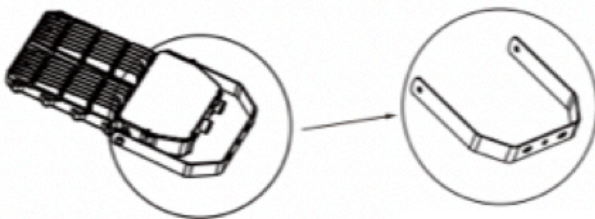


Adapter Bracket

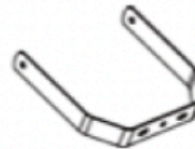


Slip Fitter  
Mounting Kit

#### Option 6: Bracket Mounting

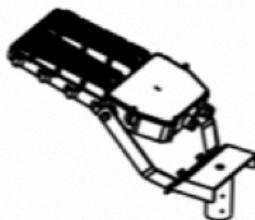


#### Accessory



Steel Bracket

#### Option 7: Stanchion Mounting



#### Accessory



Stanchion Bracket