



ST1

ST2

Class 1 Division 2



## Key Features

- FEATURES:** Street Light (Rugged)  
High lm/W  
7 Mounting Styles
- OPTIONS:** 2 Body Sizes  
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 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 | 200W | 250W | 100W | 150W |
| Body    | STA1 | STA2 |      |      |

## OPTICAL

|                             |   |         |         |         |
|-----------------------------|---|---------|---------|---------|
| Lumen Output                | 28000lm   | 35000lm | 14000lm | 21000lm |
| Lumens Per Watt             | 140 lm/W  |         |         |         |
| Color Temperature: CCT      | <b>Standard:</b> 5000K<br><b>Options:</b> 2700K - 7000K |         |         |         |
| 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) |
|-------------------------------|----------------------------------|

## 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 50 D120

| (1) Product                      | (2) Product Category | (3) Wattage  | (4) Shape Series   |
|----------------------------------|----------------------|--|--|
| HLL ST                           | EX - Explosion Proof | 100W (14,000 lm)<br>150W (21,000 lm)<br>200W (28,000 lm)<br>250W (35,000 lm) | STA1 - 200/250W<br>STA2 - 100/150W                                 |
| (5) Dimming                      |                      | (6) Kelvin   | (7) Beam Angle   |
| D - Dimmable<br>N - Non-Dimmable |                      | 30 - 3000 K<br>40 - 4000 K<br>50 - 5000 K (S)                                | D40 - 40°<br>D60 - 60°<br>D90 - 90°<br>D120 - 120° (S)<br>T3<br>T5 |

(S) Standard

# Accessories



Hardware Mounting Bracket



Slip Fitter Mounting Kit



Trunnion Mounting Kit



Light Pole Mounting Bracket



Arm Mounting Kit A



Hoop

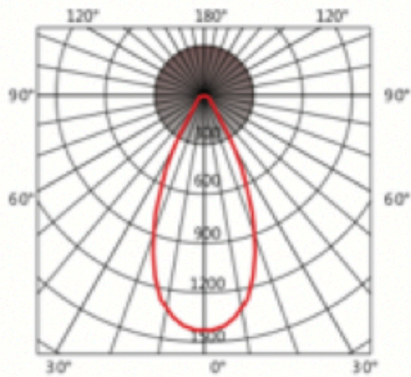


Adapter Bracket

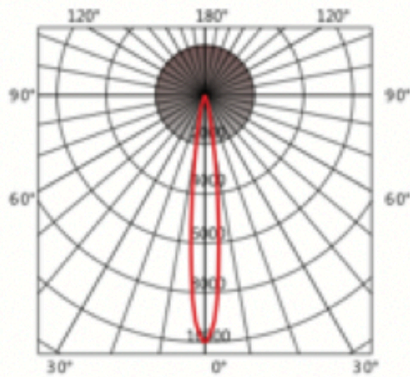


Adjustable Arm Mounting Kit B

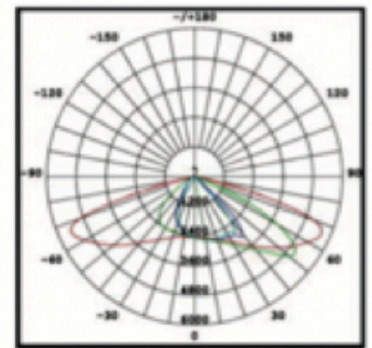
# Light Distribution



Ratio of Distance to Height: 0.7

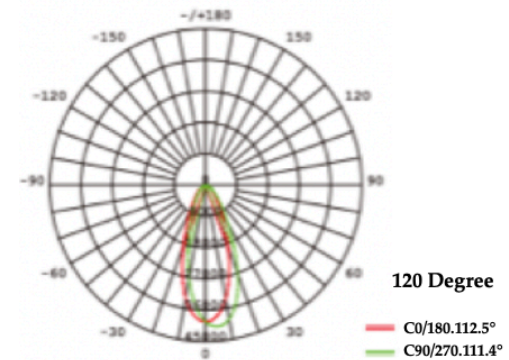
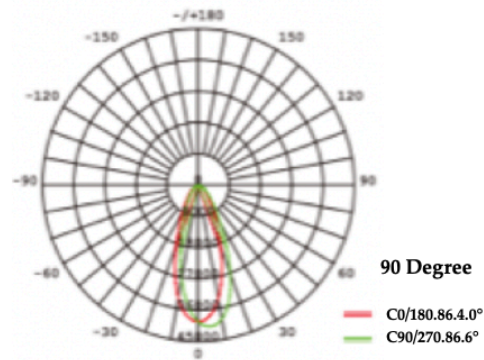
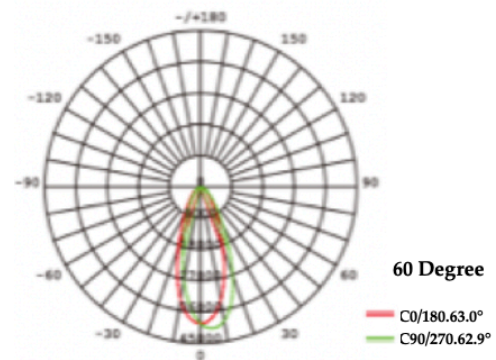
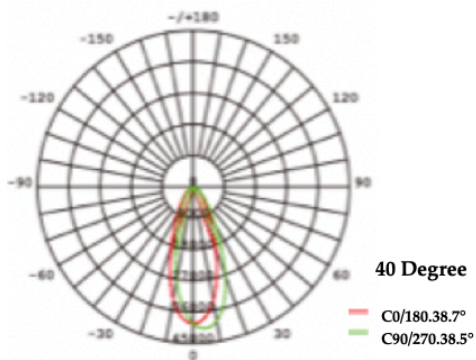


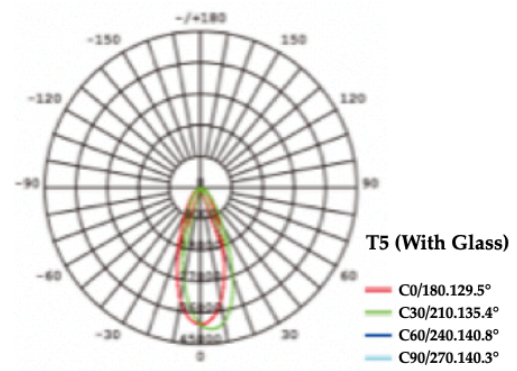
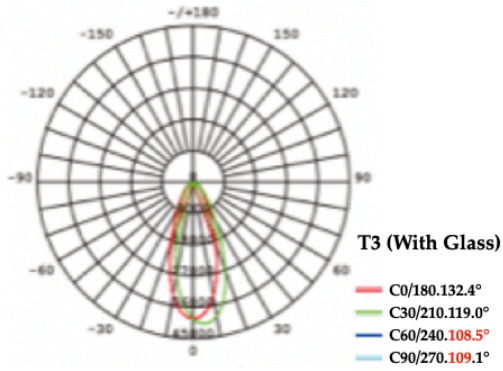
Ratio of Distance to Height: 0.23



Type III

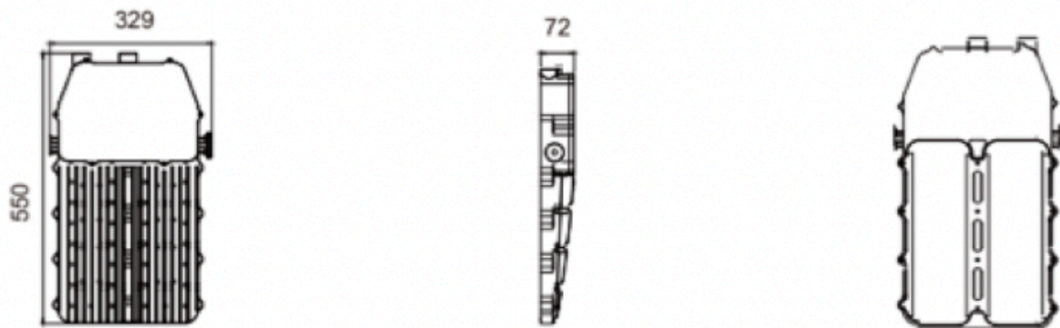
# Photometric



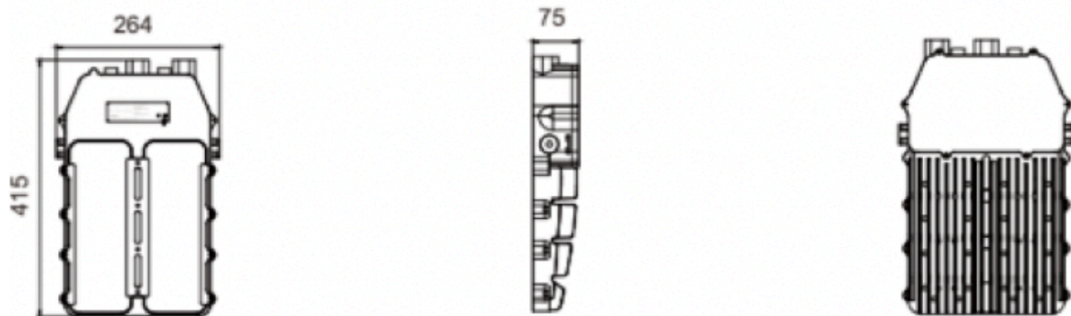


## Product Dimensions

**ST1**



**ST2**

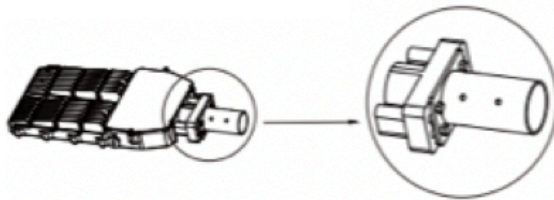


# Packaging Information

|                    | 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"<br>(855mm x 375mm x 226mm) | 22.05" x 12.60" x 5.00"<br>(560mm x 320mm x 127mm) |
| 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

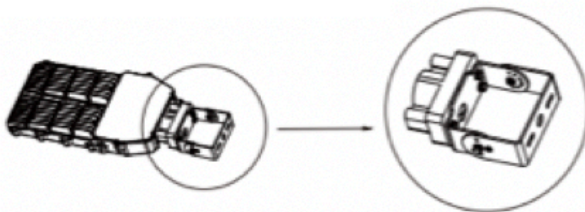
## Option 1: Pole Mounting



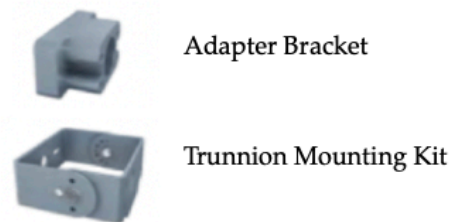
### Accessory



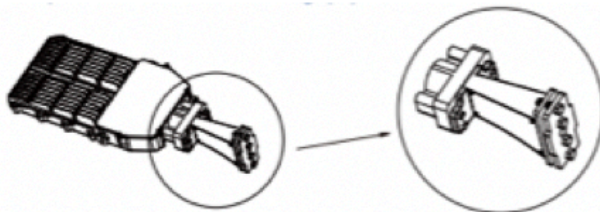
## Option 2: Trunnion Mounting



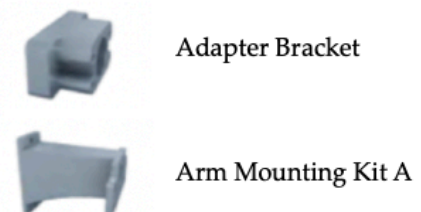
### Accessory



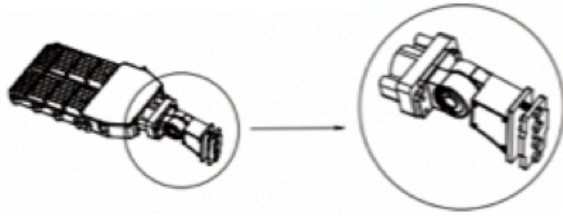
## Option 3: Arm Mounting (A)



### Accessory



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



**Accessory**

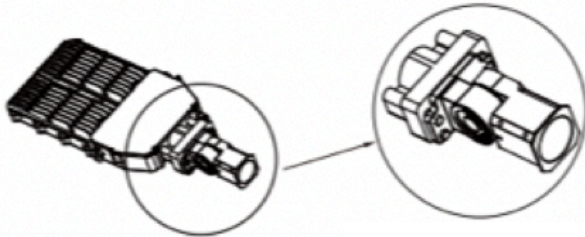


Adapter Bracket



Arm Mounting Kit B

**Option 5: Slip Fitter Mounting**



**Accessory**

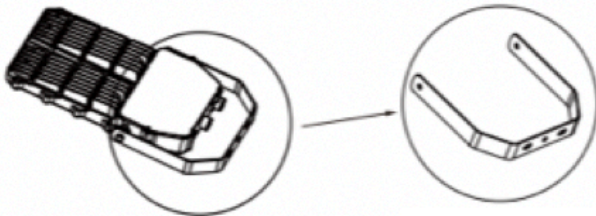


Adapter Bracket

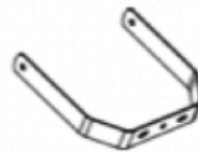


Slip Fitter  
Mounting Kit

**Option 6: Bracket Mounting**

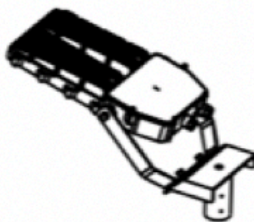


**Accessory**



Steel Bracket

**Option 7: Stanchion Mounting**



**Accessory**



Stanchion Bracket