



S2



S4



Class 1 Division 1



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
Class III
UL 1598 Suitable for Wet Locations
UL 1598A Marine Saltwater

IP66
IK10
ABS

Key Features

- FEATURES:**
- Tunable Wattage**
 - Adjustable CCT**
 - Compact Rugged Low-Bay/High-Bay Area Light
 - High Lumen efficiency up to 145 lm/W
 - Impact Resistant & Flame Proof
 - Cost Effective
- OPTIONS:**
- Convex or Flat Glass
 - 2 Body Sizes
 - High Heat
 - T2, T3, T5, 40°, 60°, 90° or 120°
 - Compatible for Jib and Crane use
 - Lens: Flat or Convex / Clear or Frosted - Glass
 - High Voltage
 - Emergency Back-Up

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	30 W	40 W	50 W	60 W	80 W	100 W	150 W	20 W	30 W	40 W	50 W	60 W	80 W	100 W	120 W	180 W	200 W	240 W
Body	S1								S2										

OPTICAL

Lumen Output	2900 lm	4350 lm	5800 lm	7250 lm	8700 lm	11600 lm	14500 lm	21750 lm	2900 lm	4350 lm	5800 lm	7250 lm	8700 lm	11600 lm	14500 lm	17400 lm	26100 lm	29000 lm	34800 lm
Lumens Per Watt	145 lm/W																		
Color Temperature: CCT	SELECTABLE: Standard 5000K Options: 2000K- 6500K																		
CRI (Color Rendering Index)	>70																		
Beam Angle	Standard: 120° Options: 40°/60°/90°/120°/T2/T3/T5																		
Dimming	0-10V dimming																		

ENVIRONMENTAL

Ambient Operating Temperature	T5:-40°C to +55°C (-40°F to +131°F)	T5: -40°C to +50°C (-40°F to +122°F)[120-277V] T4A: -40°C to +55°C (-40°F to +131°F) [277-480V/120-347V]
Temperature Code	T5 +55°C	T5 +50°C, T4A +55°C
Power Model (120-277VAC/347VAC)	SS-150VA-56BHL	SS-240VA-56BHL
Power Model (277-480 VAC)	VA-150VAC-056B	VA-240VAC-056B
Power Model (120-347 VAC)	FD-150T-054D	FD-240T-054D

MECHANICAL

Housing Material	Die-cast Aluminum
Lens Diffuser	Standard: Clear Flat Glass Options: Clear Flat Glass, Clear Convex Glass, Frosted Flat Glass, Frosted Convex Glass
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, 200-480VAC
Input Frequency	50/60Hz
Power Factor	> 0.95
LED Driver	Sosen/Fahold (120-277VAC/120-347): Meanwell (200-480VAC)

EMERGENCY

Emergency Time	1.5 Hour, 3 Hour
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Ordering Logic

ORDER EXAMPLE: HLL S EX 100W S1 D 50 D120 T

(1) Product	(2) Product Category	(3) Rated Input Wattage	(4) Shape Series	(5) Dimming
HLL S	EX - Explosion Proof	100W: 100W/80W/60W [S1] 200W: 200W/150W/120W [S2] Inquire About Additional Wattage Combinations: S1: 20W, 30W, 40W, 50W, 60W, 80W, 100W, 150W S1: 20W, 30W, 40W, 50W, 60W, 80W, 100W, 120W, 180W, 200W, 240W	S1 S2	Blank - Non-Dimmable D - Dimmable (S)
(6) Kelvin	(7) Beam Angle	(8) Lens	(9) Dual Tunable	(10) Backup Power Source
30 - 3000 K	D40 - 40°	CFG or Blank - Clear Flat Glass (S)	T - With Tunable	Blank - Without Emergency Function (S)
40 - 4000 K	D60 - 60°	CCG - Clear Convex Glass		EM - Emergency Back Up
50 - 5000 K (S)	D90 - 90°	FFG - Frosted Flat Glass		
57 - 5700 K	D120 - 120° (S)	FCG - Frosted Convex Glass		
65 - 6500 K	T2 - 60°			
	T3 - 90°			
	T5 - 120°			

(S) Standard

Accessories



EX-Flexible Conduit 700mm
3/4NPT



EX-Junction Box



EX-90° S Stanchion Pole Mount



EX-Flexible Conduit 700mm
1/2NPT



EX-Junction Box Side Hole

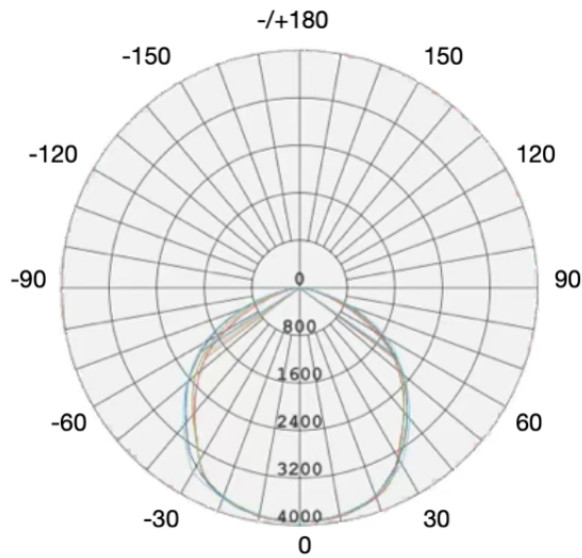


EX-25° S Stanchion Pole Mount



EX-Threaded Pipe

Photometric



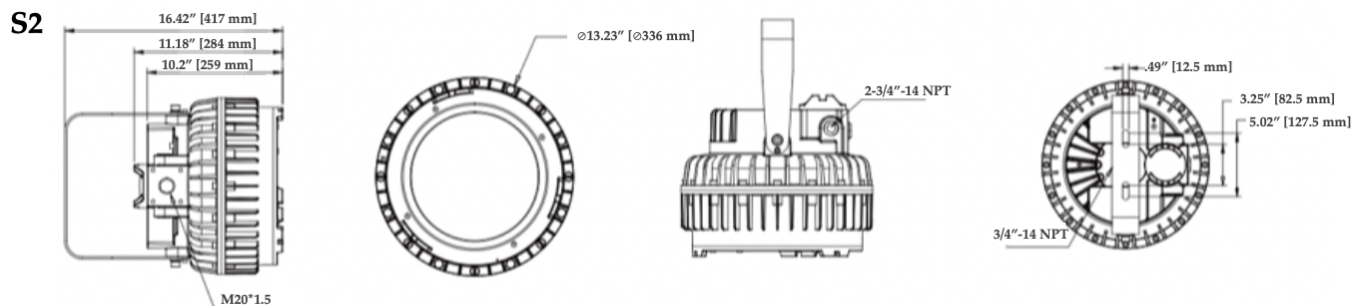
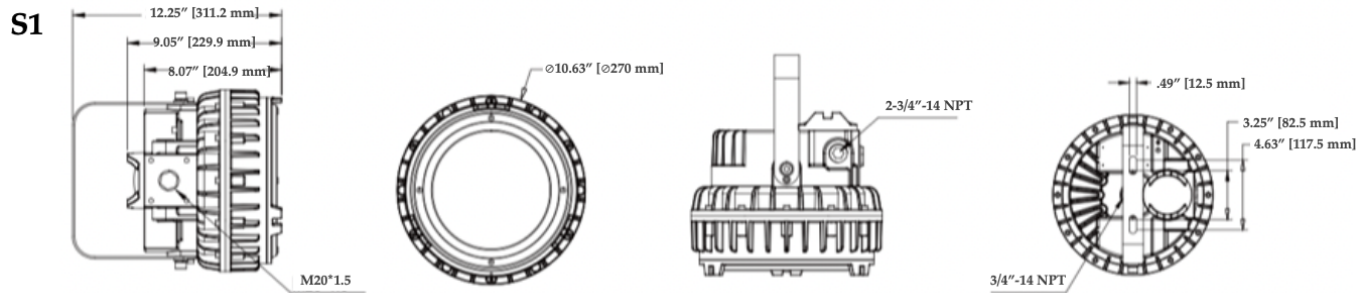
120 Degree

Average Beam Angle (50%): 110.1 Degree

UNIT: cd

- C0/180, 106.7°
- C30/210, 108.9°
- C60/240, 111.4°
- C90/270, 113.4°

Product Dimensions

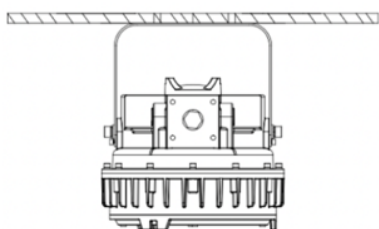


Packaging Information

	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" (420mm x 470mm x 320mm)	19.69" x 18.5" x 15.75" (500mm x 470mm x 400mm)
Net Fixture Weight	27.34 lb (12.4 kg)	44.31 lb (20.1 kg)
Gross Weight	29.32 lb (13.3kg)	47.62 lb (21.6 kg)

Mounting Methods

Option 1: Ceiling Mounting

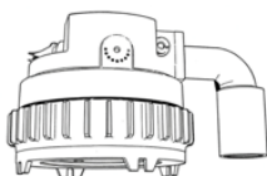


Accessory



Bracket

Option 2: Stanchion Pole Mount

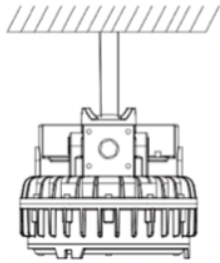


Accessory



90° Pole Mount

Option 3: Pendant Mounting



Accessory



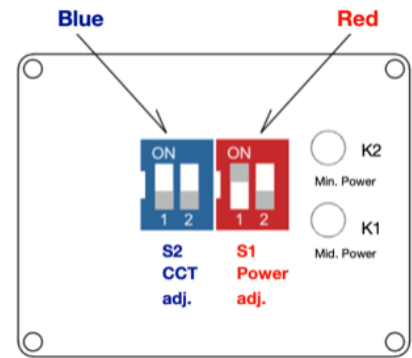
EX-Threaded Pipe

Option 4: Pendant Mounting with Junction Box

Accessory



EX-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.

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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;

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.

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First gear, the cold white temperature gear, for example, 6000K.
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;

(1) ^{4000K}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%.