BPO LIGHTING
HAZARDOUS AREA LIGHTING

HLLA



A2 A A3 A4

Class 1 Division 2

Priority Express
Ships In 2-3 Days

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
CB (Ref. Certif. No.: DE 2-038462-M1)
Class III
UL 1598 Suitable Locations
UL 1598A Marine Saltwater

IP66
IK08 (Without Wire Guard)
IK10 (With Wire Guard)
1000 Hours Salt Spray
ETL (ATM for Report 105342415DAL-001)
ABSATEX: EX II 3G Ex ec IIC T6...T3 Gc
ATEX: EX II 2D Ex tb IIIC T85°C...T103°C Db IP66
IECEx; Ex ec IIC T6...T3 Gc
IECEx; Ex tb IIIC T85°C…T100°C Dbn IP66
DLC select versions

Key Features

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

OPTIONS:
4 Body Sizes
High Voltage
40°, 60°, 90° or 120°
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	20W	40W	60W	80W	100W	150W	180W	200W	250W	300W	400W
Body	A2			A		A3			A4		

OPTICAL

Lumen Output	2800 lm	5600 lm	8400 lm	11200 lm	14000 lm	21000 lm	25200 lm	28000 lm	35000 lm	42000 lm	56000 lm
Lumens Per Watt	140 lm/W										
Color Temperature: CCT	**Standard:** 5000K **Option:** 3000K - 6500K										
CRI (Color Rendering Index)	> 70										
Beam Angle	120° Standard 40°, 60°, 90°option										
Dimming	0-10V dimming										

ENVIRONMENTAL

Ambient Operating Temperature	-40°C to +40°C (-40°F to +104°F): Models A2, 20-40W	-40°C to +40°C (-40°F to +104°F): Models A, 40-120W -40°C to +50°C (-40°F to +122°F): Models A, 40-100W, Class I Division 2 Group A, B, C, D;	-40°C to +40°C (-40°F to +104°F): Models A3, 20-200W	-40°C to +55°C (-40°F to +131°F): Models A4, 20-300W -40°C to +40°C (-40°F to +104°F): Models A4, 20-400W
Temperature Code	T3: (+55°C)			

MECHANICAL

Housing Material	Die-cast aluminum	
Lens Diffuser	Tempered glass & PC	
Hardware	Stainless Steel	
Fixture Color	Grey RAL7040 (Standard)	
Mounting	Ceiling, Wall, Hook, Trunnion, Pole, Stanchion	Ceiling, Wall, Hook, Pole, Stanchion
Cable Entry	**Top:** 3/4" NPT (standard); **Side:** 3/4" NPT (standard); M20, M25, 1/2" NPT Option	
Warranty	5-Year Standard Warranty	

ELECTRICAL		
Lifespan	L70> 78,000 Operational Hours @ 55°C	
Input Voltage	120-277VAC, 277-480VAC	
Input Frequency	50/60Hz	
Power Factor	> 0.95	
EMERGENCY		
Emergency Time	A2: No emergency function	A/A3/A4: Optional

Ordering Logic

ORDER EXAMPLE: HLL A EX 100W A3 D 50 D120

(1) Product	(2) Product Category	(3) Rated Input Wattage	(4) Shape Series	(5) Dimming
HLL A	EX - Explosion Proof	20W (3,000 lm) 40W (6,000 lm) 60W (9,000 lm) 80W (12,000 lm) 100W (15,000 lm) 150W (22,500 lm) 180W (27,000 lm) 200W (30,000 lm) 250W (37,500 lm) 300W (45,000 lm) 400W (66,000 lm)	A2 - A2 80/100W A - A 20/40/60W A3 - A3 150/180/200W A4 - 250/300/400W	D - Dimmable N - Non-Dimmable

(6) Kelvin	(7) Beam Angle	(8) Voltage	(9) Dual Tunable
30 - 3000 K 40 - 4000 K 50 - 5000 K(S)	D40 - 40° D60 - 60° D90 - 90° D120 - 120° (S)	Blank- 100-277V HV - 277-480V	Blank - Without Emergency Function (S) EM - Emergency Back Up*

(S) Standard *EM Available 80W and above

Accessories


EX-Flexible Conduit 700mm 3/4NPT


EX-Flexible Conduit 700mm 1/2NPT


EX-Junction Box


EX-Junction Box Side Hole


EX-Pendant Direction Adapter


EX-Threaded Pipe


EX-Bent Threaded Pipe


EX-Chain


EX-Lifting Hook


EX-45° Pole Mount


EX-25° Stanchion Pole Mount

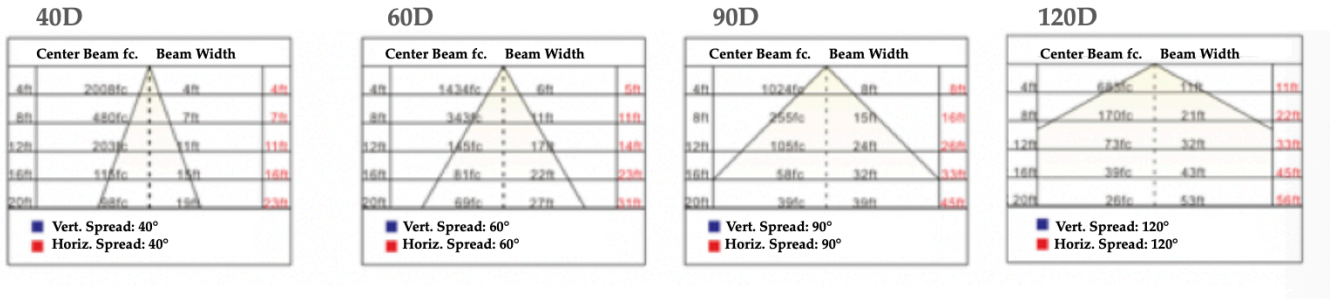

EX-90° Stanchion Pole Mount


EX-25° Stanchion with Junction Box

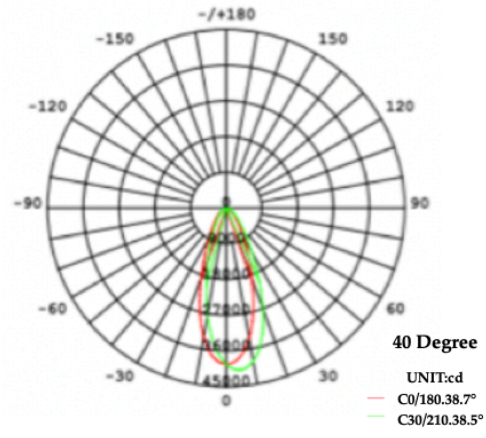

EX-90° Stanchion with Junction Box


EX-90° Stanchion to Junction Box

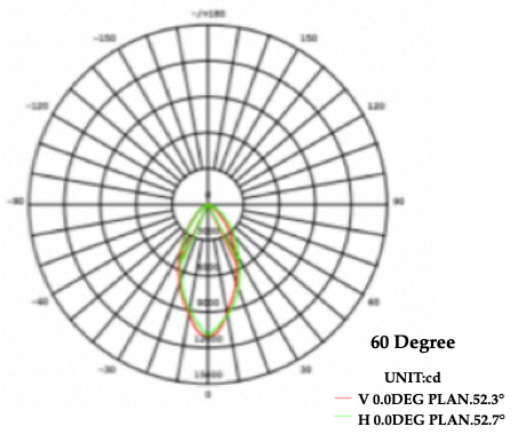
Light Distribution



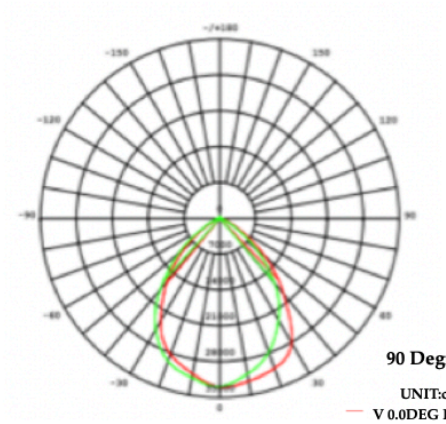
Photometric



Average Beam Angle (50%):38.6 DEG



Average Beam Angle (50%):52.5 DEG



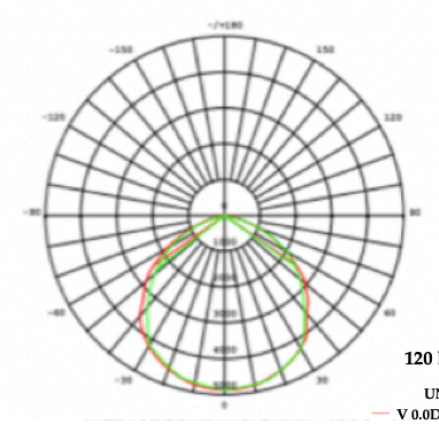
90 Degree

UNIT:cd

V 0.0DEG PLAN.83.2°

H 0.0DEG PLAN.82.4°

Average Beam Angle (50%):82.8 DEG



120 Degree

UNIT:cd

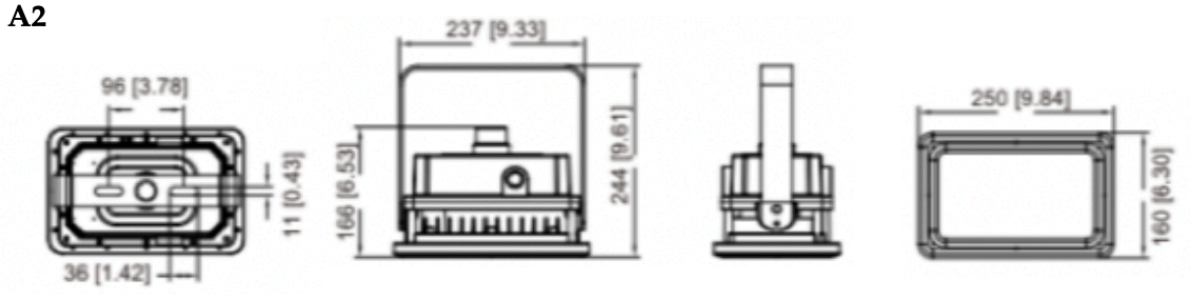
V 0.0DEG PLAN.109.9°

H 0.0DEG PLAN.105.8°

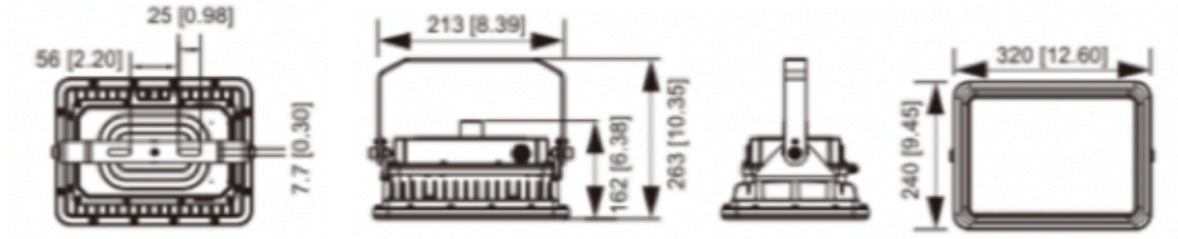
Average Beam Angle (50%):107.8 DEG

Product Dimensions

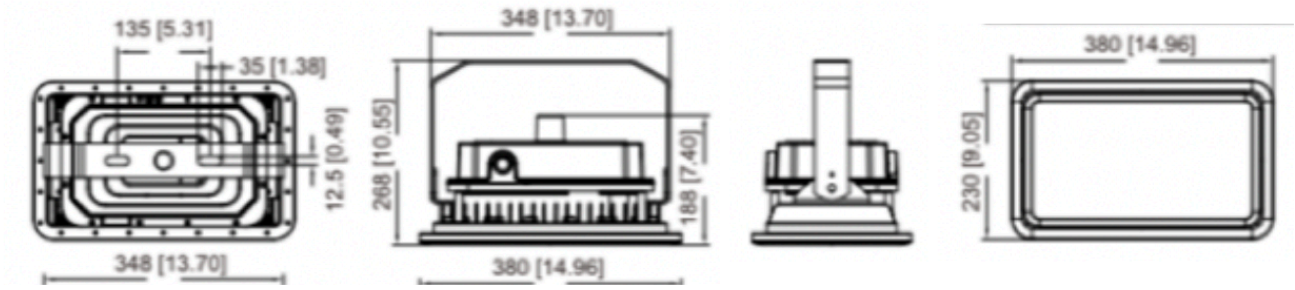
A2



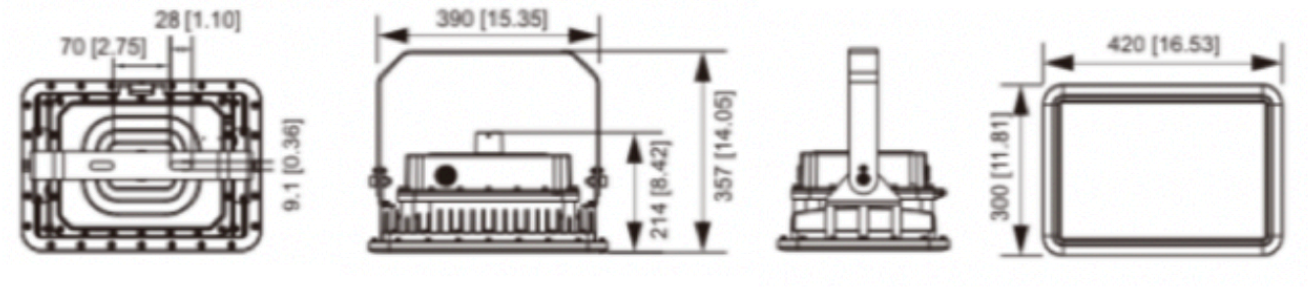
A



A3



A4

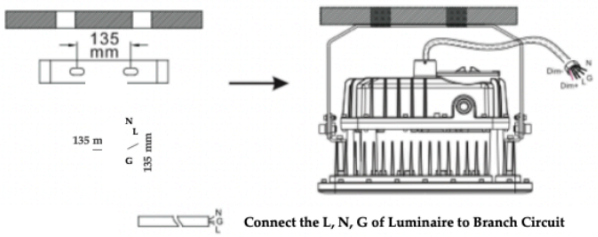


Packaging Information

	A2	A	A3	A4
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	14.37” x 10.63” x 12.01” (365mm x 270mm x 305 mm)	14.76” x 13.39” x 8.46” (375mm x 340mm x 215mm)	19.09” x 13.39” x 14.37” (485mm x 340mm x 365mm)	20.08” x 18.90” x 13.78” (510mm x 480mm x 350mm)
Net Fixture Weight	4.15 kg/9.15 lb	6.95 kg/15.32 lb	8.30 kg/18.30 lb	15.1 kg/33.29 lb
Gross Weight	5.30 kg/11.68 lb	7.90 kg/17.42 lb	10.30 kg/22.71 lb	15.80 kg/34.83 lb

Mounting Methods

Option 1: Ceiling Mounting

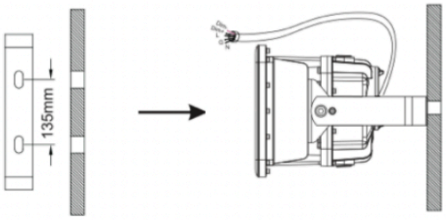


Accessory



Bracket

Option 2: Wall Mounting

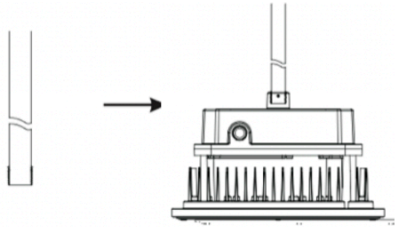


Accessory



Bracket

Option 3: Pendant Mounting



Accessory

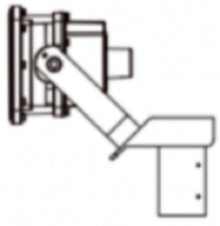


EX-Junction Box



EX-Threaded Pipe

Option 4: 45° Pole Mounting (Only for A and A2)

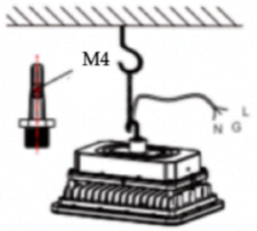


Accessory



EX-45° Pole Mount

Option 5: Hook & Chain Mounting



Accessory

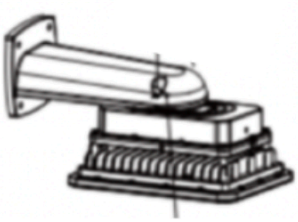


EX-Lifting Hook



EX-Chain

Option 6: Wall Mounting Stanchion Arm to Junction Box

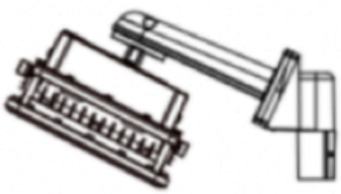


Accessory



EX-90° Stanchion to Junction Box

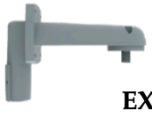
Option 7: Stanchion Pole Mounting



Accessory

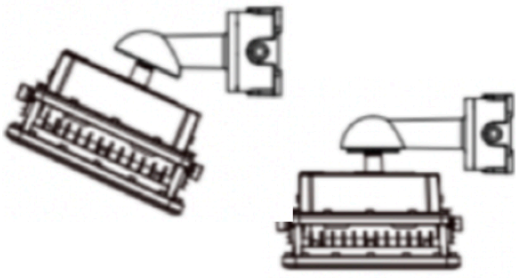


EX-25° Stanchion Pole Mount



EX-90° Stanchion Pole Mount

Option 8: Wall Stanchion Mounting with Junction Box



Accessory



EX-25° Stanchion with Junction Box



EX-90° Stanchion with Junction Box