BPO LIGHTING
Hazardous Area Lighting

727-688-1400

www.bpolighting.com

HLL I Series
Class 1 Division 1

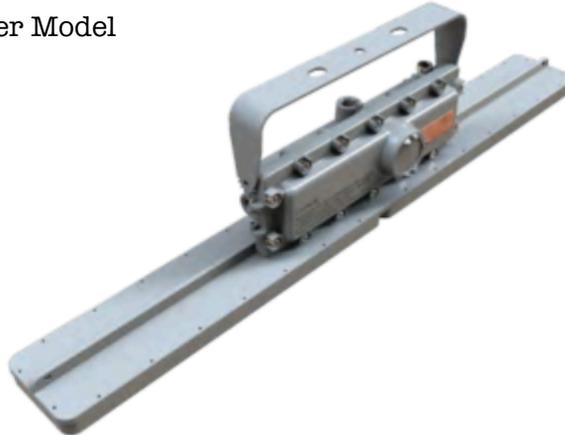HLL I 2 Regular Model

HLL I 4 Regular Model

HLL I 4 Side Opening Cover Model

HLL I 2 Side Opening Cover Model

ABS · HazLoc · cULus LISTED · ETL Intertek · DLC

Product Description

The HLL I Series is a Class 1 Division 1 Modern Profile Linear Led Luminaire available in 2 & 4 Ft options. It is the optimal choice for marine and hazardous applications. Designed for use in areas where there is a risk of explosion or fire, including flammable gasses, vapors, moisture, dirt, dust, corrosion or vibration as well as locations exposed to wind, water, snow or high ambient temperatures.

Emergency Battery Backup

1.5 Hour Emergency Battery Backup available

Key Features

0-10V dimming
Emergency function optional
Compact and robust structure, excellent reliability
Various installation ways for different applications
Great impact resistance with IK08/IK10 certified
Copper-free aluminum housing, great corrosion resistance and cooling performance

Applications

Oil and Gas
Petroleum production and refining
Petroleum loading, storage, transportation and retail
Confined spaces with vapor accumulation
LNG and LPG handeling
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

Compliance & Certification

Class I Division 1, Group C, D
Class I Division 2, Group A, B, C, D
Class II Division 1, Group E, F, G
Class II Division 2, Group F, G
Class III
Class I, Zone 1, Group IIB
Class II, Zone 21, Group IIIC

UL 844 Hazardous Locations
UL 1598 Wet Locations
UL 1598A Marine Outside Type
UL 924 Emergency Lighting

CSA C22.2#137:2018 Ed.2
CSA C22.2#250.0:2021 Ed.5
ETL (ATM for Report 105342415DAL-001/003)
ABS, DLC*
    * Not all product variations listed on this spec sheet are DLC qualified.
    Visit www.designlights.org/search to confirm qualification.
IP66/IP67
IK08 (glass cover)
IK10 (with wire guard)

Specifications

Eletrical			
Specification	EX-20W I2YZD	EX-40W I2YZD	EX-60W I2YZD
Rated Power	20W	40W	60W
Input Voltage	100-277VAC/200-480VAC		
Input Frequency	50/60Hz		
Power Factor	> 0.95		
Emergency Time*	1.5 hours		

*Emergency function optional.

Optical			
Specification	EX-20W I2YZD	EX-40W I2YZD	EX-60W I2YZD
Lumen Output	2800lm	5600lm	8400lm
Lumens Per Watt	140Im/W		
CCT	2700K-7000K		
CRI	> 70		
Beam Angle	120°		
Dimming	0-10V dimming		

Environmental			
Specification	EX-20W I2YZD	EX-40W I2YZD	EX-60W I2YZD
Ambient Temperature	-40°C to +60°C (-40°F to +140°F)		
Temperature Code	T4		

Mechanical			
Specification	EX-20W I2YZD	EX-40W I2YZD	EX-40W I2YZD
Housing Material	Copper-free aluminum		
Diffuser	Tempered glass		
Hardware	Stainless steel		
Protection	IP66/IP67/1K08 (glass cover)IK10 (with wire guard)		
Mounting	Ceiling, Pole, Wall, Chain, Pendant		
Cable Entries Regular Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT		
Cable Entries Side Opening Cover Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT		

Eletrical					
Specification	EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Rated Power	40W	60W	80W	100W	120W
Input Voltage	100-277VAC/200-480VAC				
Input Frequency	50/60Hz				
Power Factor	> 0.95				
Emergency Time*	1.5 hours				

*Emergency function optional.

Optical					
Specification	EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Lumen Output	5600lm	8400lm	11200Im	14000lm	16800lm
Lumens Per Watt	140Im/W				
CCT	2700K-7000K				
CRI	> 70				
Beam Angle	120°				
Dimming	0-10V dimming				

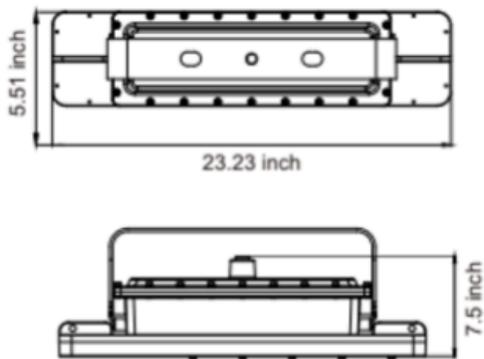| Environmental					
Specification	EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Ambient Operating Temperature	-40°C to +60°C (-40°F to +140°F)			-40°C to +40°C (-40°F to +104°F)	
Temperature Code	T4			T4	

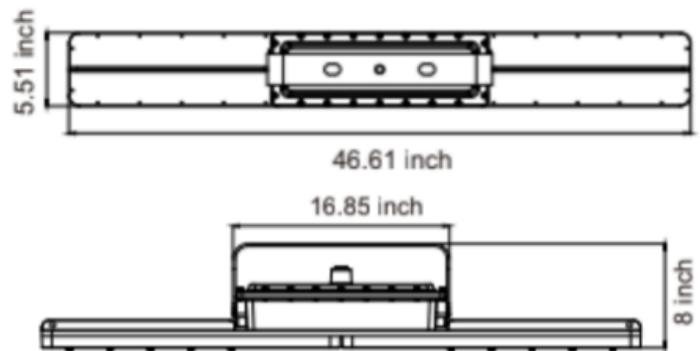| Mechanical					
Specification	EX-40W I4YZD	EX-60W I4YZD	EX-80W I4YZD	EX-100W I4YZD	EX-120W I4YZD
Housing Material	Copper-free aluminum				
Diffuser	Tempered glass				
Hardware	Stainless steel				
Protection	IP66/IP67/1K08 (glass cover)/IK10 (with wire guard)				
Mounting	Ceiling, Pole, Wall, Chain, Pendant				
Cable Entries Regular Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT				
Cable Entries Side Opening Cover Model	Top: 3/4 NPT(standard), 1/2 NPT Two sides: 3/4 NPT(standard), 1/2 NPT				

Packing Information

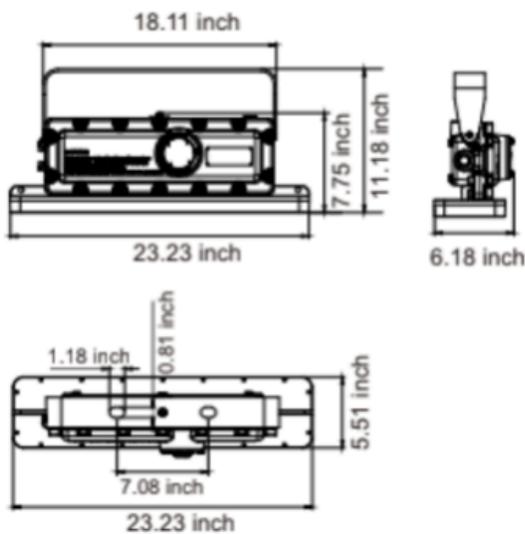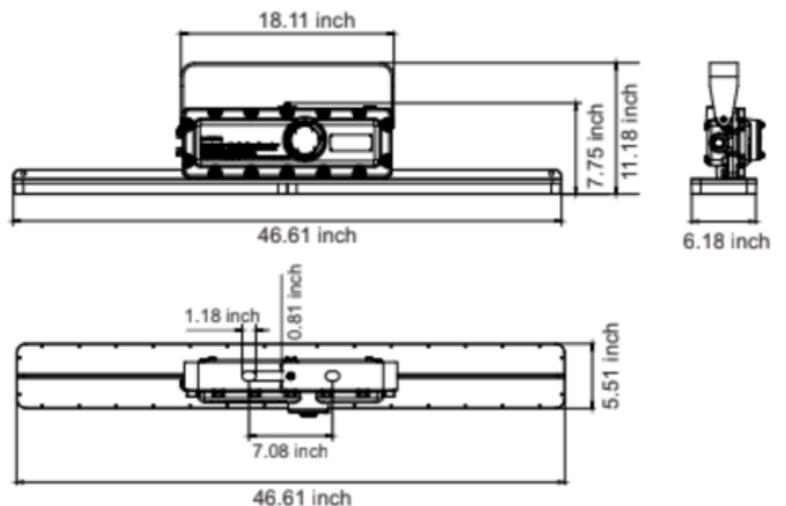| Model	Size	Net Weight	Gross Weight
12 Regular Model	30.31x13.39x10.43 inch	26.46 lb	28.66 lb
14 Regular Model	53.94x14.17x11.42inch	40.79 lb	47.40 lb
12 Side Opening Cover Model	30.31x13.39x10.43 inch	33.07 lb	35.27 lb
14 Side Opening Cover Model	53.94x14.17x11.42inch	40.79 lb	47.40 lb

Product Dimensions

HLL I 12 Regular Model

5.51 inch
23.23 inch
7.5 inch

HLL I 14 Regular Model

5.51 inch
46.61 inch
16.85 inch
8 inch

HLL I 12 Side Opening Cover Model

18.11 inch
7.75 inch
11.18 inch
23.23 inch
6.18 inch
1.18 inch
0.81 inch
5.51 inch
7.08 inch
23.23 inch

HLL I 14 Side Opening Cover Model

18.11 inch
7.75 inch
11.18 inch
46.61 inch
6.18 inch
1.18 inch
0.81 inch
5.51 inch
7.08 inch
46.61 inch

Ordering Guide

HLL I	80W	I4	D	5000 K	D120	
(1) Series	(2) Watt	(3) Shell Shape	(4) Dimming	(5) Kelvin	(6) Beam Angle	Optional
HLL I	40W (5600 LM)	I2 (2 ft)	D: Dimmable	3000 K	D120 - 120°	EM - Emergency Backup
	60W (8400 LM)	I4 (4 ft)	N: Non-Dimmable	4000 K		
	80W (11200 LM)			5000 K		
	100W (14000 LM)					

Mounting Methods

Option 1: Ceiling Mounting

Accessories

Bracket

Metal Conduit
EX-NG
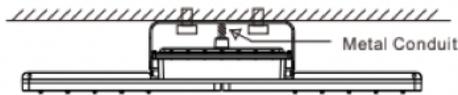
Option 2: Wall Mounting

Accessories
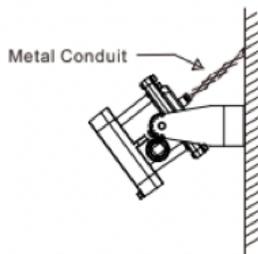
Bracket

Metal Conduit
EX-NG
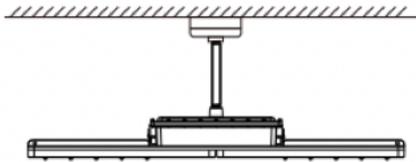
Option 3: Pole Mounting

Accessories

Bracket
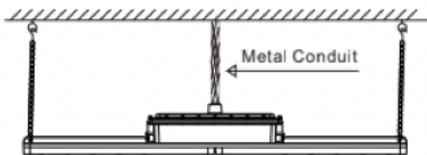
Option 4: Pendant Mounting

Accessories

Junction Box
EX-HD51-KB1

Pole
Ex-Straight Pipe

Option 5: Chain Mounting

Accessories

Metal Conduit

Pendant Chain
Ex-Straight Chain

Metal Conduit
EX-NG

120 Degree

AVERAGE BEAM ANGLE(50%):116.4 DEG
UNIT:cd
— C0/180,120.1
— C30/210,117.4
— C60/240,114.9
— C90/270,113.2