

HLL J



Class 1 Division 2

Key Features

FEATURES: Linear (Rugged)

High Im/W

Push to test & LED Charging Indicators

3 Mounting Styles

OPTIONS: 2' & 4' Body Lengths

Emergency Back-Up

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Compliance

UL 844 Hazardous Locations 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

UL 924 Emergency Lighting Equipment

UL 8750 Light Emitting Diode (LED) Equipment for use in Lighting Product

IP66 IP67

IK10

1200 hours Salt Spray

ABS 3G

Ex II 2GD

Ex db eb mb IIC T6/T5 Gb Ex tb IIIC T80°C/T95°C Db IP66

Ex db eb mb IIC T6/T5 Gb Ex tb IIIC T80°C/T95°C Db IP66

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

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Specif	ication	ı s				
Wattage	20W	30W	40W	50W	60W	
Body		R2	!	F	R4	
OPTICAL						
Lumen Output	2730 lm	4012 lm	5067 lm	7024 lm	8381lm	
•		4012 1111	3007 1111	7024 1111	00011111	
Lumens Per Watt	136.5 lm/W					
Color Temperature: CCT	5000K (standard)	, 2700-5000K op	tions			
CRI (Color Rendering Index)	>80					
Beam Angle	120°					
Dimming	0-10V dimming					
ENVIRONMENTAL						
Ambient Operating Temperature	-40°C to +50°C					
Temperature Code	Т6		T5			
MECHANICAL						
Housing Material	SUS 304 Stainless steel					
Lens Diffuser	Transparent fiberglass-reinforced polycarbonate (standard) Diffuse fiberglass-reinforced polycarbonate Option					
Hardware	Aluminum Alloy					
Gasket	Waterproof Silicone Rubber					
Fixture Color	Milky White, Epoxy Powder Coating					
Mounting	Ceiling, Rope, Pole Mount					
Cable Entry	Standard: 4 x NPT 3/4" (Side x 1 open, Side x3 with stopping plugs) W/EM: 3x NPT 3/4" (Side x 1 open, Side x2 with stopping plugs) x self testing button					
Warranty	5 Year Standard Warranty (Battery Back Up: 3 Year)					

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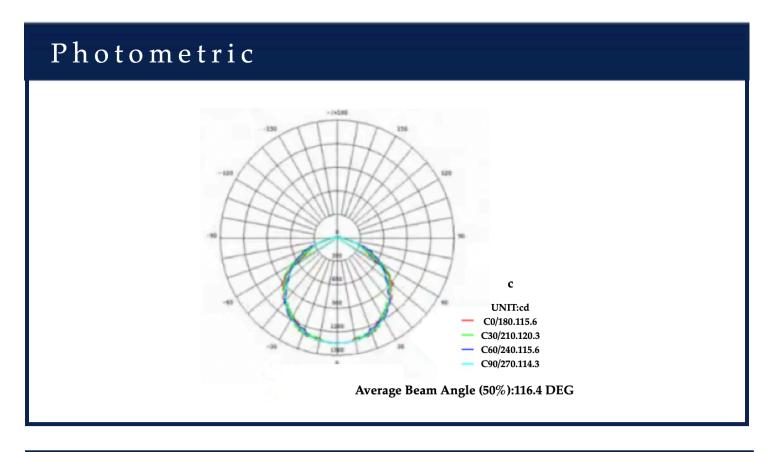
ELECTRICAL								
Lifespan	50,000-hour L	50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations						
Input Voltage	120-277VAC	120-277VAC						
Input Frequency	50/60Hz	50/60Hz						
Power Factor	> 0.9	> 0.9						
THD AC 120V	1.29%	1.29% 1.56% 1.38% 1.47% 1.89%						
THD AC 277V	4.01%	4.37%	3.92%	3.24%	5.31%			
Input Current	0.17/0.08A	0.17/0.08A						
Driver Efficienc	≥ 90%	≥ 90%						
Surge Protection	4kV							
EMERGENCY								
Emergency Time	1.5 Hour							

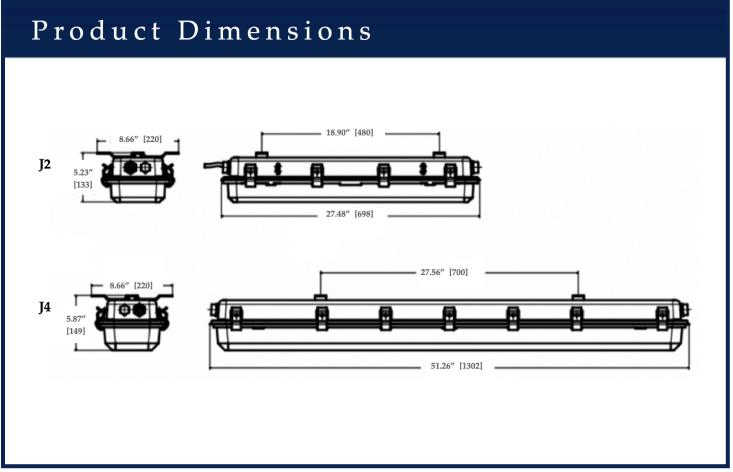
Ordering Logic

ORDER EXAMPLE: HLL J EX 50W JR4 D 5K 120

(1) Product	(2) Product Category	(3) Wattage	(4) Shape Series	(5) Dimming
HLL J	EX - Explosion Proof	20W (2,730 lm)	JR2 - 2' (20/30/40W)	D - Dimmable
		30W (4,012 lm)	JR4 - 4' (50/60W)	N - Non-Dimmable
		40W (5,067 lm)		
		50W (7,024 lm)		
		60W (8,381 lm)		
(6) Kelvin	(7) Beam Angle	(8) Voltage	(9) Optional	
3K - 3000 K	120 - 120° (S)	Blank - U 100-277	Blank - Without Emerge	ncy Function
4K - 4000 K		HV - 480	EM - Emergency Back U	þ
5K - 5000 K (S)				

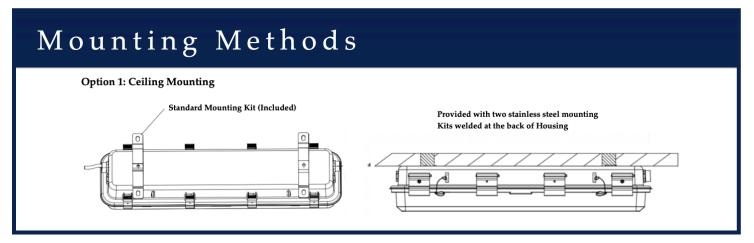
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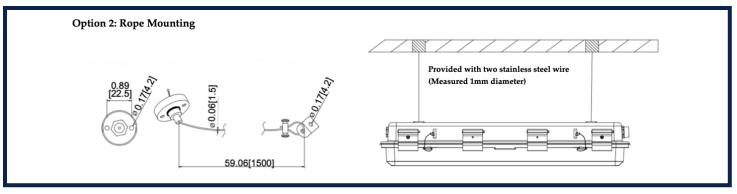


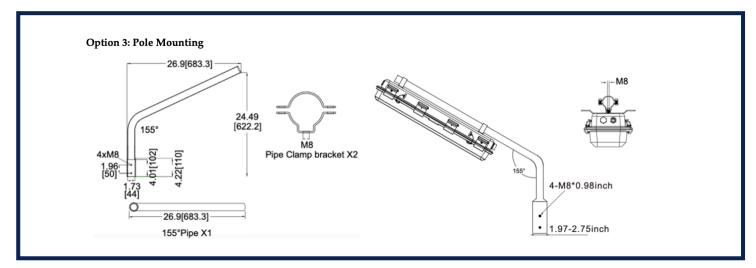


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Packaging Information						
	R2	R4				
Fixture Dimensions	See Product Dimensions Drawing	See Product Dimensions Drawing				
Package Dimensions	32.28 x 10.63 x 7.87 IN (820 x 270 x 200 MM)	55.91 x 10.63 x 7.87 IN (1420 x 270 x 200 MM)				
Net Fixture Weight	11.6 lb (5.27 kg) 14.33 lb (6.5 kg) w/EM	19.67 lb (8.92 kg) 22.49 lb (10.2 kg) w/EM				
Gross Weight	14.44 lb (6.55 kg) 16.38 lb (7.43 kg) w/EM	24.69 lb (11.2 kg) 25.44 lb (11.54 kg) w/EM				





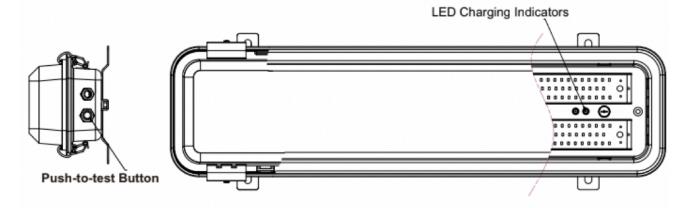


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EM Driver Specification Features - EM-15W-HL CAUTION: Sealed unit. Battery not replaceable. Replace entire unit when necessary

Model	Input Rating			Model Input Rating Emergency 0		gency Output Rating
	Vac	Hz	Max.mA	Max.W	Vdc	Constant Wattage, W
EM-15W-HL	120-277	50/60	100	7	25-55	15

Model	Charge Time,	Emergency	Response	Rated Ambient	Battery Life
	Hours	Run Time, Min	Time, mS	Range, °C	Expectancy
EM-15W-HL	24	90	< 550	0~60	5 Years



Indicator Information

LED Features Operate Mode		YELLOW LED (State LED)	Green LED (Indicate LED)
Charge Mode	Charging		Flash 0.2HZ (5S/time)
onargo mode	Fully charged		ON
Discharge Made	Discharge		Flash 1HZ (1S/time)
Discharge Mode	Discharge cut-off		OFF
Battery disconnect	ct	Flash 2HZ (0.5S/time)	
LED Lamp disconnect		Flash 2HZ (0.5S/time)	
Battery under voltage		Flash 1HZ (1S/time)	
Battery over voltage		Flash 1HZ (1S/time)	
Function test beginning (once a month)			Flash 2HZ (0.5S/time), flash 5 times
Under function test			Flash 1HZ (1S/time)
Function test failed		Flash 0.5HZ (2S/time)	
Discharge duration test beginning (once a year)			Flash 2HZ (0.5S/time), flash 7 times
Under discharge duration test			Flash 1HZ (1S/time)
Discharge duration test failed		Flash 0.5HZ (2S/time)	

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