



HLRD-M

LED Hazardous Location Round Luminaire, UL844, 60 W to 200 W



DESCRIPTION

At 150 lumens per watt with 3 different beam patterns, the HLRD-M Series brings design, excellence, and durability to harsh and hazardous rated lighting. Various installation ways for different applications. Explosion proof, the HLRD-M is suitable where flammable gases, vapors and combustible dusts are present. Applications include oil and gas rigs, petrochemical plants, paint spray booths, and other hazardous location.



SPECIFICATION FEATURES

Construction

- Robust cast aluminum housing with low copper content with stands harsh or hostile environments; Durable 3,000-hour salt-fog finish (extends service life in corrosive environments).
- Precise number of fins dissipate maximum amount of heat.
- Rugged construction ensures long-life and safe operation.
- Resistant to shock and vibration.

LED Module

- Single CCT 3000K, 4000K, 5000K, 5700K are available for standard version.

Electrical

- Universal 120-277 VAC or 347-480 VAC input voltage.
- 0-10V/PWM/Rx 3-in-1 Dimming
- PF >0.9, THD <20%.
- Operating Temperature Range: -40°C - + 65°C (-40°F - + 149°F).
Note: Operating temperature range with emergency battery : 5°C to 60°C (41°F - + 140°F). Charge: 0°C ~ 60°C Discharge: 5°C ~ 60°C
- Built in standard surge suppression with 6KV, optional 10KV (120-277V), and 20KV (347- 480V).
- NEC/CE T-CODE:
100W: T5(+45°C) / T4A(+65°C) 200W: T4A(+50°C) / T4(+65°C).
- Operating Temperature Range: Operating Temperature Range:

Emergency Function	Battery Working Status	Wattage	
		100W	200W
Y	Charge	5°C ~ 45°C	5°C ~ 40°C
	Discharge	5°C ~ 45°C	5°C ~ 40°C
N	N	-40°C ~ 65°C	-40°C ~ 65°C

Lifespan

- Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Optics

- Three distributions available to maximize versatility: 60°, 90°, 120°.
- Scalable Lumen Packages from 10,000 to 30,000 Lumens.
- Lenses made of pc will not discolor or shatter, chip or break.
- Highly engineered LED system ensures superior uniformity and maximizes spacing.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

Installation

- Trunnion mount (default)
- Wall mount (optional)
- Pendant mount (optional)
- Round pole mount (optional)
- Ceiling mount (optional)

Warranty

- Five-year limited warranty.

Certifications

- Marking UL844(North American):
Class I Division2 Groups A B C D
Class II Division1 Groups E F G
Class II Division2 Groups F G
Class III
Electric lighting fixtures for use in hazardous (classified) locations.
- UL844, UL1598, UL1598A.
- Ingress Protection: IP66 (wet location).

Note

- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C(±5°C). specifications subject to change without notice.

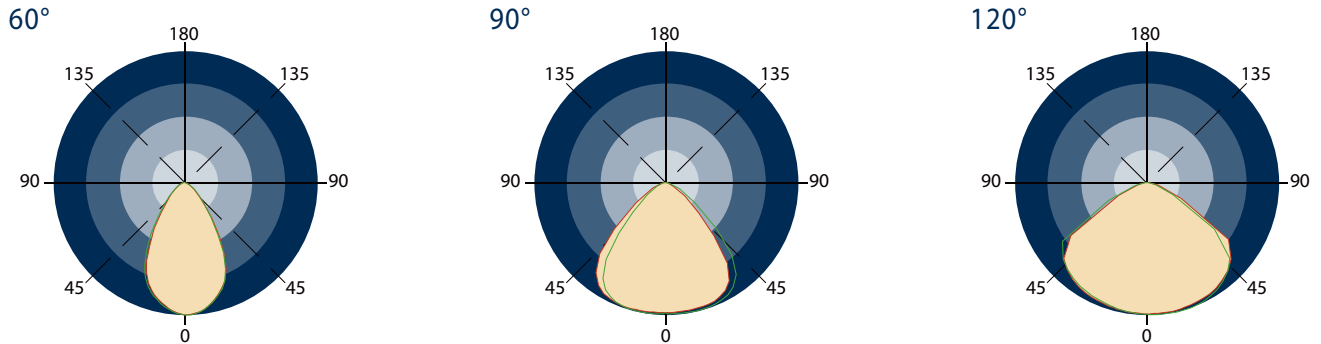


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PHOTOMETRICS

Various optics is designed for a specific purpose and covering all your application needs.



PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	CRI	LUMENS (3000K)	LPW (3000K)	LUMENS (4000K)	LPW (4000K)	LUMENS (5000K)	LPW (5000K)
60W	120-277V 347-480V	70	10000lm	167lm/W	10500lm	175lm/W	10500lm	175lm/W
70W	120-277V 347-480V	70	11000lm	157lm/W	11500lm	164lm/W	11500lm	164lm/W
80W	120-277V 347-480V	70	12000lm	150lm/W	12500lm	156lm/W	12500lm	156lm/W
90W	120-277V 347-480V	70	13500lm	150m/W	14000lm	156lm/W	14000lm	156lm/W
100W	120-277V 347-480V	70	15000lm	150lm/W	15500lm	155lm/W	15500lm	155lm/W
120W	120-277V 347-480V	70	19000lm	158lm/W	20500lm	171lm/W	20500lm	171lm/W
140W	120-277V 347-480V	70	22000lm	157m/W	23500lm	168lm/W	23500lm	168lm/W
160W	120-277V 347-480V	70	25000lm	156lm/W	26000lm	163lm/W	26000lm	163lm/W
180W	120-277V 347-480V	70	28000lm	156m/W	29000lm	161lm/W	29000lm	161lm/W
200W	120-277V 347-480V	70	30500lm	153lm/W	31500lm	158lm/W	31500lm	158lm/W

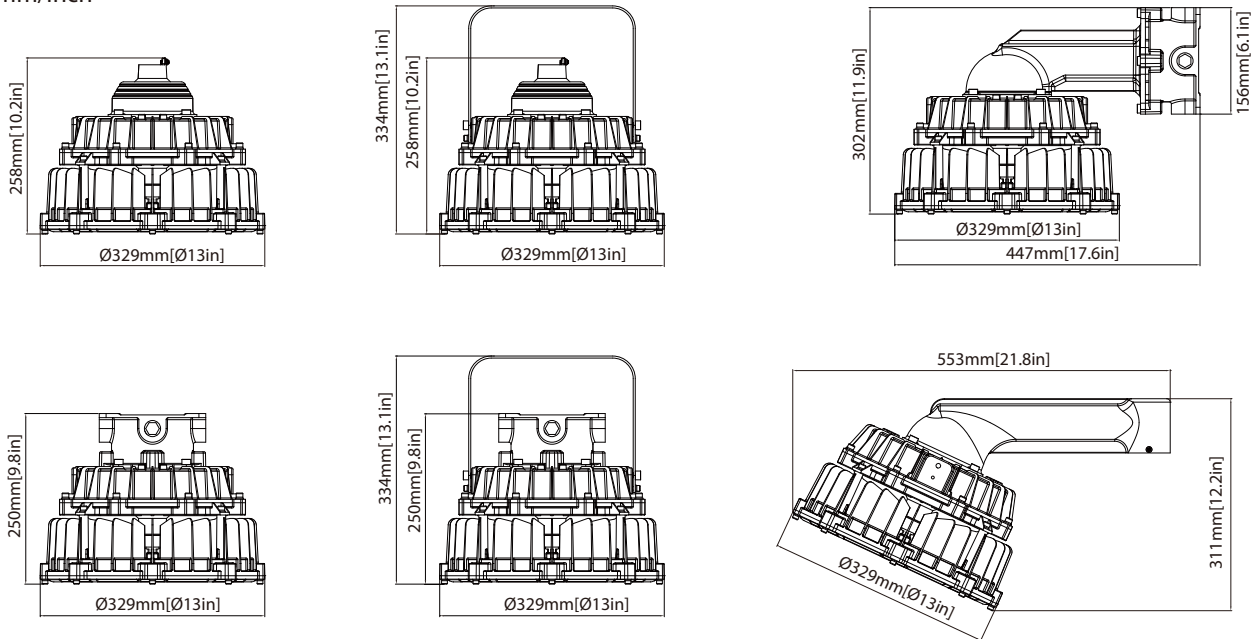


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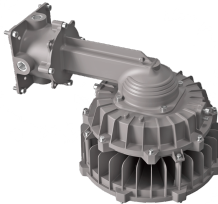
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DIMENSION

unit: mm/inch



MOUNTING

Trunnion Mount (default)	Ceiling mount (option)	Pendant (option)	Wall Mount (option)	Round pole mount (option)
				

Notes: Division 1: Flammable concentrations may exist for long periods of time or under normal operating conditions.

Division 2: Flammable concentrations may not exist under normal operating conditions.

ACCESSORIES (Optional)



Emergency Battery

BLD-EX-AE08S-300Y 8W, 90min



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NEC HAZARDOUS LOCATION CLASSIFICATION

NEC Protections					
Hazard category	Regional category	Classifications	Representative gases	Division Group	Applications
Class I (Flammable gases, vapors)	Division 1	Gas category	Acetylene	A	Hazardous locations with flammable gases or vapors, including: -Oil and gas industry -All oil production and refining -Oil loading and transportation -Oil storage and retailing -Liquefied natural gas industry -All mining operations and services
			Hydrogen	B	
	Division 2		Vinyl	C	
			Methane	D	
Class II (Flammable dust)	Division 1	Dust category	Metal dust	E	Hazardous locations with flammable gases or vapors, including: -Highly dusty industries -Flour and fine particle production and storage -Metal smelting, casting and fabrication -Coal gathering industry -Construction
			Coal dust	F	
	Division 2		Grain dust	G	
Class III (Flammable fiber)	Division 1	Fibers and Flyings	Man-made fibers, lint fibers	/	Hazardous locations with flammable fibers, including: -Textile industry -Garment factories
	Division 2				

ORDERING GUIDE

Example: HLRD-M 200W 27V XXK YYY Y

Fixture Type	Series	Wattage	Input Voltage	CCT	Finish	Intelligent Control	Light Distribution	Installation	Internal Code
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
HLRD-M Hazardous Location Round Luminaire	-	200W 200Watts 180W 180Watts 160W 160Watts 140W 140Watts 120W 120Watts 100W 100Watts 90W 90Watts 80W 80Watts 70W 70Watts 60W 60Watts	27V 120-277V 48V 347-480V	30K 3000K 40K 4000K 50K 5000K 57K 5700K	W White G Gray B Black SG Silver Gray	Blank Null B Emergency battery (5~60 C)	60 60 Degree ML 90 Degree WL 120 Degree	Blank WM Wall mount TR Trunnion mount PE Pendant mount PM Round pole mount CM Ceiling mount	Blank Alphanumeric

Disclaimer:

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