

# LED HAZARDOUS LOCATION ROUND LUMINAIRES

## MHR01

### DESCRIPTION

At 150 lumens per watt with 3 different beam patterns, the HR Series brings design, excellence, and durability to harsh and hazardous rated lighting. Various installation ways for different applications. Explosion proof, the HR 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.
- Precise number of fins dissipate maximum amount of heat.
- Rugged construction ensures long-life and safe operation.
- Resistant to shock and vibration.

#### 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

#### 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
- Both drivers have a power factor >90%, THD <20%.
- Operating Temperature Range: -40°C - + 65°C
- Built in standard surge suppression with 6KV, optional 10KV (120-277V), and 20KV (347- 480V).

#### Installation

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

#### Lifespan

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

#### Finish

- It's available in black or optional gray, silver gray or white.

#### Warranty

- Five-year limited warranty.

#### Certifications

- UL 844:  
Electric lighting fixtures for use in hazardous (classified) locations.
- UL 1598:  
Electric lighting fixtures for use in non-hazardous locations.

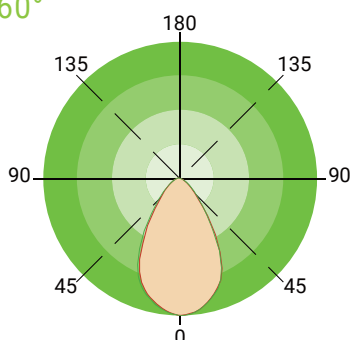
#### Note

- 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.

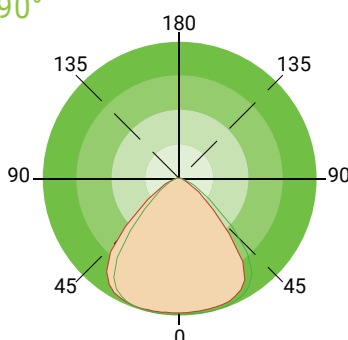
### PHOTOMETRICS

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

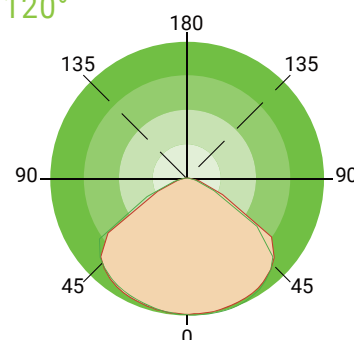
60°



90°



120°

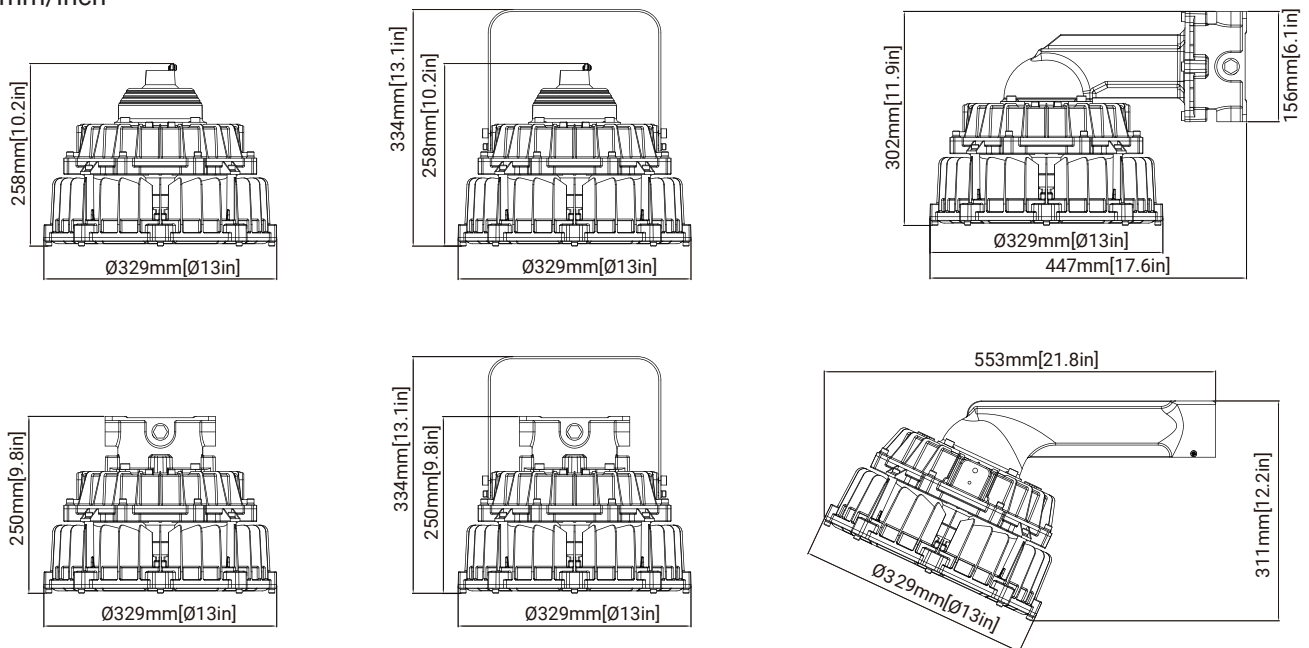


## PERFORMANCE DATA

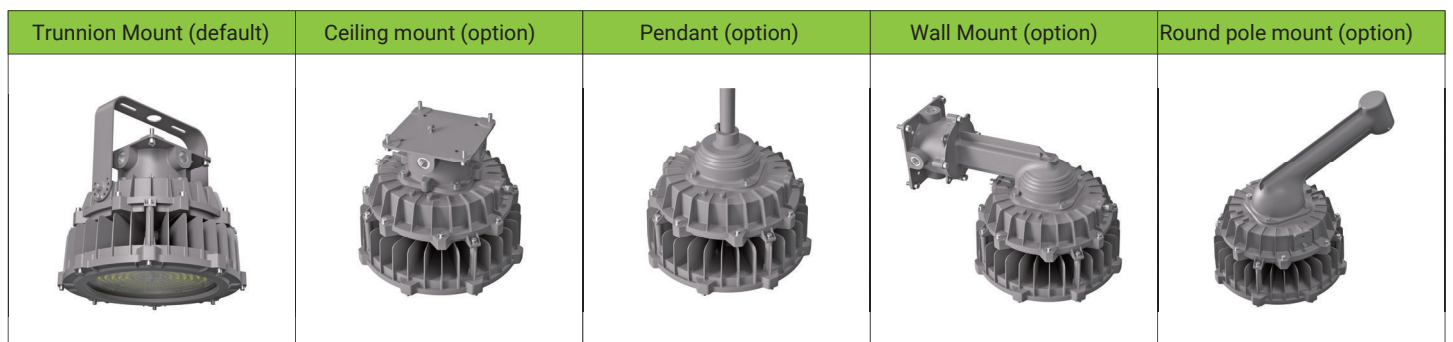
SYSTEM WATTS	VOLTAGE	CRI	LUMENS (3000K)	LPW (3000K)	LUMENS (4000K)	LPW (4000K)	LUMENS (5000K)	LPW (5000K)
60W	120-277V 347-480V	70	10000lm	167lm/W	10500lm	175lm/W	10500lm	175lm/W
70W	120-277V 347-480V	70	11000lm	157lm/W	11500lm	164lm/W	11500lm	164lm/W
80W	120-277V 347-480V	70	12000lm	150lm/W	12500lm	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

## DIMENSION

unit: mm/inch



## MOUNTING



# HAZARDOUS LOCATION FOR DEMANDING ENVIRONMENTS

NEC Protections					
Hazard Category	Regional Category	Classifications	Representative Gases	Division Group	Applications
Class I (Flammable gases, vapors)	Division 2	Gas category	acetylene	A	Hazardous locations with flammable gases or vapors - 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	
			vinyl	C	
			methane	D	
Class II (flammable dust)	Division 1	Dust category	metal dust	E	Hazardous locations with flammable dust <b>Highly dusty industries</b> -Flour and fine particle production and storage - Metal smelting, casting and fabrication -Coal gathering industry -Construction
	Division 2		coal dust	F	
			Grain dust	G	
Class III (flammable fiber)	Division 1	/	Man-made fibers, lint fibers	/	Hazardous locations with flammable fibers <b>Textile industry</b> - Garment factories -Garment industry
	Division 2				

- Notes: 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.

ORDERING GUIDE								Example: MHR01 200W 27V XXK Y Y Y Y			
Fixture Type	Wattage	Input Voltage	CCT	Finish	Beam Angle	Mounting (Option)		Internal Code			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
<b>MHR01</b> Hazardous Location Light series	60W	27V 120-277V	30K 3000K	B Black	60 60 Degree	WM	Wall mount	<b>Blank</b> <b>Alphanumeric</b>			
	70W	48V 347-480V	40K 4000K	W White	ML 90 Degree	TR	Trunnion				
	80W		50K 5000K	G Gray	WL 120 Degree	PE	Pendant mount				
	90W		57K 5700K	SG Silver Gray		PM	Round pole mount				
	100W					CM	Ceiling mount				
	120W										
	140W										
	160W										
	180W										
	200W										