

Project:	
Type:	
Catalog #:	



## Hazardous Location LED Luminaire

### FME Mercury -Series

## Product description

The MERCURY Series LED Luminaire can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC. The MERCURY Series is rated for Class 1, Division 1; Class 1, Division 2; Class 2, Division 1,2; Class 3 applications. The copper free cast aluminum housing allows for cool operating temperatures.



## Features

- High efficacy: up to 140lm/W
- Color temperature: 4000K, 5000K, 6000K
- Input Voltage 120–277V or 347–480V, 12–48VDC(100–200W)
- Suitable for -40°C to +45°C Ambient Temperature.
- L<sub>70</sub> Rating of 150,000 hours
- Variable optics 40° 60° 90° 120° for uniform illumination
- CRI>70
- Standard ceiling mount
- Copper free aluminum
- High vibration resistance
- Low maintenance costs
- Standard 2ft cable out of 3/4" threaded hub on top

## Applications

- Coal & Dust Storage
- Petroleum Refineries
- Ethanol Facilities
- Chemical Plants
- Waste Water & Water Treatment Plants
- Power Generation Plants
- Food and Alcohol

## Warranty

- 5-year limited warranty on the fixture Standard

## Compliance & Listing

- Class I, Division 1, Groups C & D
- Class I, Division 2, Groups A, B, C & D
- Class II, Division 1,2, Groups F & G
- Class III
- UL 844 Hazardous Locations
- UL 1598 Wet Locations
- UL 1598A Marine Outside
- UL 8750 LED Safety
- IK10 Impact
- CSA C22.2 No. 250.0-08
- CSA C22.2 No. 137-M1981
- IP66
- DLC Listed
- CNEX
- ATEX

## Product Dimensions

14.2'x14.2'x10.8'

## Ceiling Mounted Bracket



Side View

Top View

**\*\*Ceiling mounted bracket comes standard with the Moon, Star, Venus, Space, Mercury and Mars Series.\*\***

## Explosion Proof Junction Box

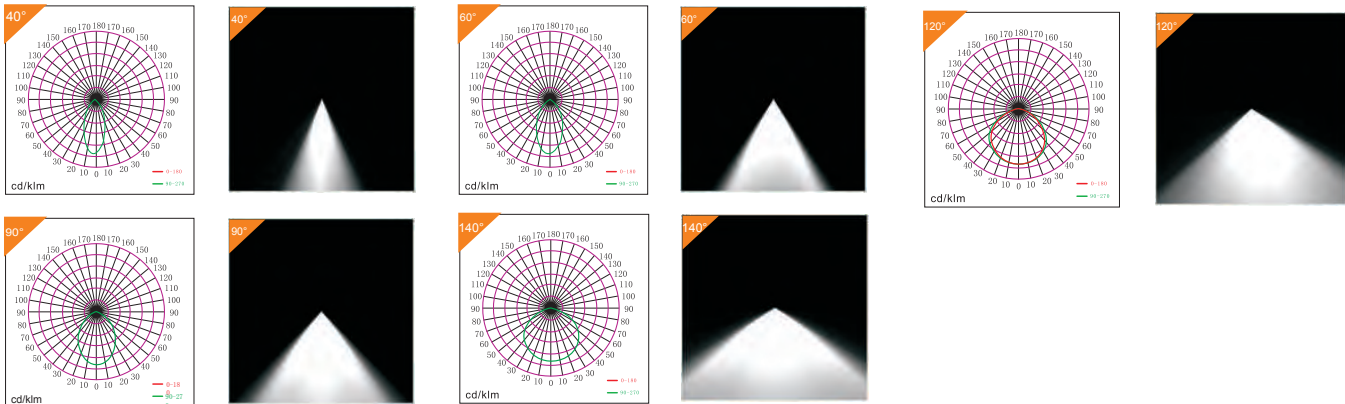


**\*\* EX-JBOX can be used with the Moon, Star, Venus, Space Mercury and Mars Series.\*\***

## Conduit 47(n)



## Photometric Data

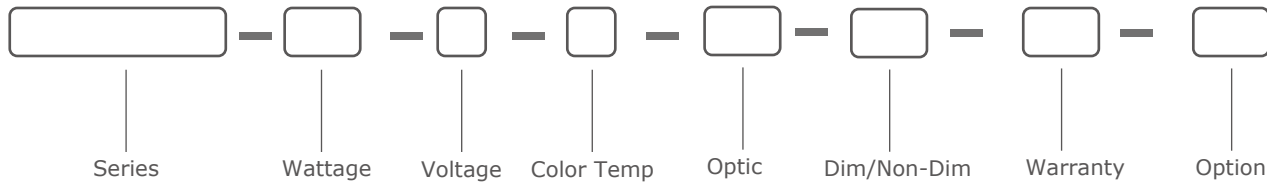


## Technical Parameter

Item No.	FME-MER-4	FME-MER-6	FME-MER-8	FME-MER-10		FME-MER-15	FME-MER-200
Power	40W	60W	80W	100W		150W	200W
Input Voltage	120-277V OR 347-480V						
Lumen	5,600	8,400	11,200	14,000		20,250	25,000
Light Efficiency	140lm/W						
CCT	4000K / 5000K						
CRI	>70						
IP	IP66						
Certification	ETL listed, UL844, UL 1598, UL 1598A, CSA standard, ABS, ATEX, IECEx certified, IP 66						

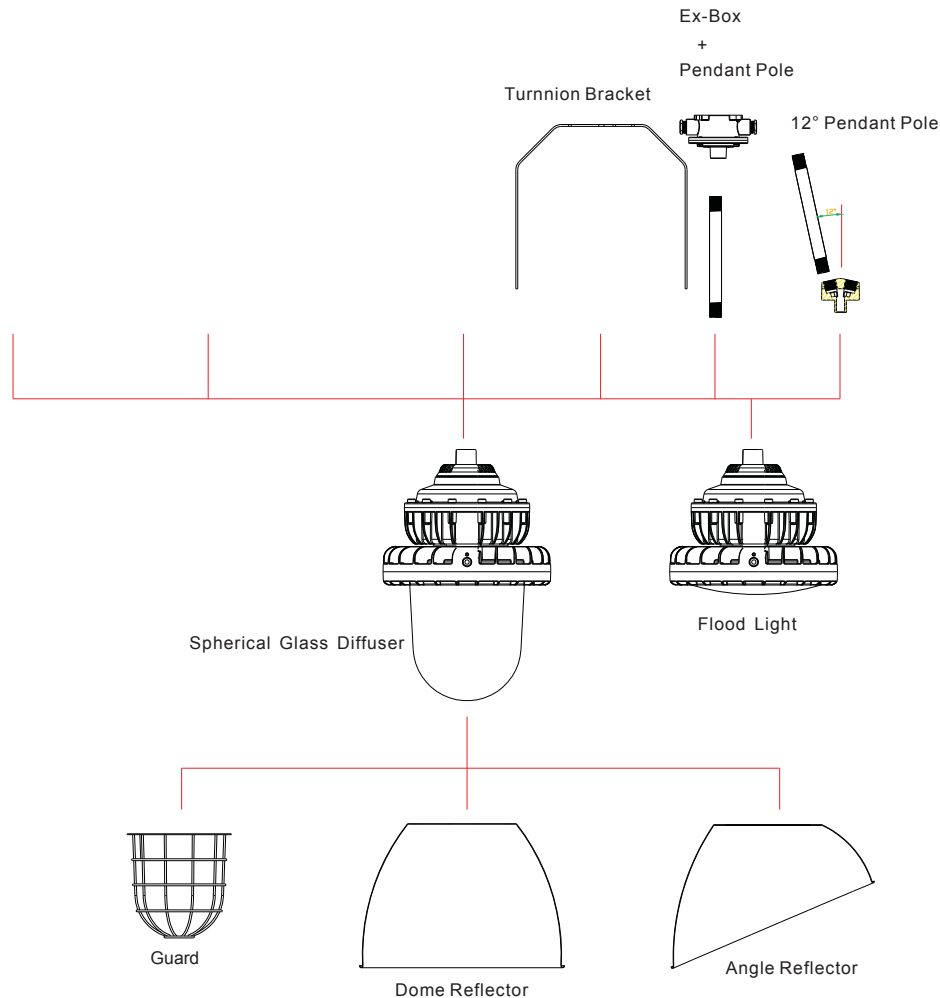
# Ordering Information

## Hazardous Location LED Luminaire



<u>SERIES</u>	<u>WATTAGE</u>	<u>VOLTAGE</u>	<u>COLOR TEMP</u>	<u>OPTIC</u>	<u>DIM/NON-DIM</u>	<u>WARRANTY</u>	<u>OPTION</u>
FME-MER	4=40W 6=60W 8=80W 10=100W 15=150W 18=180W 20=200W	A=AC100-277V B=AC277-480V C = 12-48vdc	S= 4000K I= 5000K C= 6000K	M=40° N= 60° O= 90° R= 120°	D=Dimmable ND=Non-Dimmable	5Y = Five Year STD	OPPP=Pendant Mount OPDPP=120 Pendant OPEB=Junction Box OPC= 47(in) Conduit CG = Clear Globe FG = Frosted Globe WG = Wire Guard CGG = Clear Globe & WG FGG = Frosted Globe & WG DREF = Dome Reflector AREF = Angle Reflector

# Mounting Diagram



Class I locations are those in which inflammable gases or vapors are or may be present in sufficient quantities to produce explosive or flammable mixtures.

### CLASS I, DIVISION 1

Class I, Division 1 locations are where hazardous atmosphere may be present during normal operations. It may be present continuously, intermittently, periodically or during normal repair or maintenance operations, or those areas where a breakdown in processing equipment releases hazardous vapors with the simultaneous failure of electrical equipment.

### CLASS I, DIVISION 2

Class I, Division 2 locations are those in which volatile flammable liquids or gases are handled, processed or used. Normally they will be confined within closed containers or in closed systems from which they can escape only in the case of rupture or deterioration of the containers or systems.

## Class II Locations

Class II locations are those that are hazardous because of the presence of combustible dust.

### CLASS II, DIVISION 1

Class II, Division 1 locations include areas where combustible dust may be in suspension in the air under normal conditions in sufficient quantities to produce explosive or ignitable mixtures (Dust may be emitted into the air continuously, intermittently or periodically), or where failure or malfunction of equipment might cause a hazardous location to exist and provide an ignition source with the simultaneous failure of electrical equipment, included also are locations in which combustible dust of an electrically conductive nature may be present.

### CLASS II, DIVISION 2

Class II, Division 2 locations are those in which combustible dust will not normally be in suspension nor will normal operations put dust in suspension, but where accumulation of dust may interfere with heat dissipation from electrical equipment or where accumulations near electrical equipment may be ignited.

## Class III Locations

Class III locations are those considered hazardous due to the presence of easily ignitable fibers of flyings, which are in quantities sufficient to produce ignitable mixtures.

### CLASS III, DIVISION 1

Locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used.

### CLASS III, DIVISION 2

Locations where easily ignitable fibers are stored or handled.