



## Hazardous Location LED Luminaire

### FME Earth-Series



## Product description

The Earth-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 Earth Series is rated for Class 1, Division 1; Class 1, Division 2; Class 2, Division 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
- Suitable for -40°C to +55°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 of fixture

## Applications

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

## Warranty

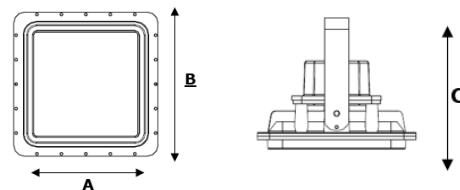
- 5-year limited warranty on the fixture. Complete warranty <http://www.fmelighting.com/warranty.html>

**Note:** Actual performance may differ as a result of end-user environment and application.

## Compliance & Listing

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

## Product Dimensions

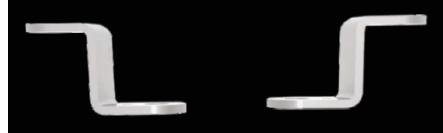


Model	A	B	C
Earth Series	15.7"	11.3"	10"

# Mounting Configuration and Accessories

Hazardous Location LED Luminaire

## Ceiling Mounted Bracket



Side View

Top View

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

## 25° Stanchion



## 90° Stanchion



\*\*Stanchion mount can be used with the Moon, Star, Venus, Space and Mars Series.\*\*

## Explosion Proof Junction Box



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

## Conduit 47(in)



## 25° Wall Mount



\*\*25 wall mount can be used with the Moon, Star, Venus, Space and Mars Series.\*\*

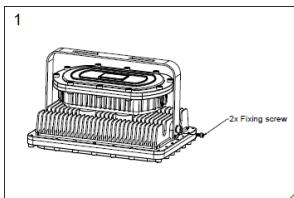
## 90° Wall Mount



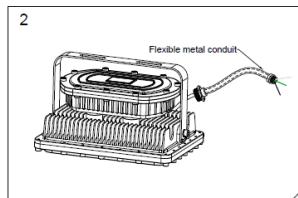
\*\*90 wall mount can be used with the Moon, Star, Venus, Space and Mars Series.\*\*



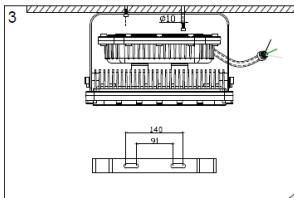
The specific steps of installation (Ceiling mounted)



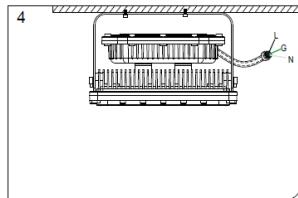
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



2. Through the cable to flexible metal conduit and tighten it with the fixture.



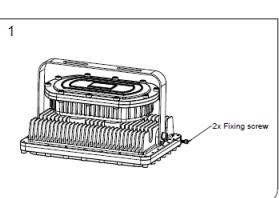
3. Drill 2x hole as Fig.3, the distance can be 91~140mm, fixing Ø10 expansion screws and bracket on ceiling.



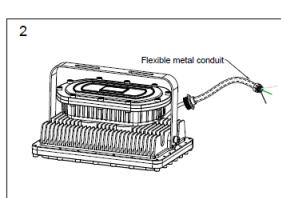
4. Connect the AC cable, Black cable joins to Live wire, white cable joins to Null wire, green cable joins to grounding.



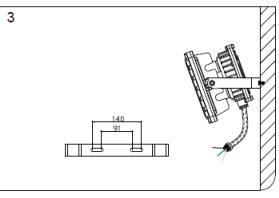
The specific steps of installation (Wall mounted)



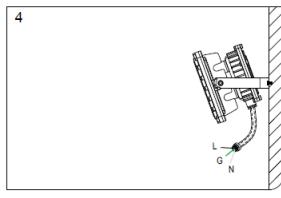
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



2. Through the cable to flexible metal conduit and tighten it with the fixture.

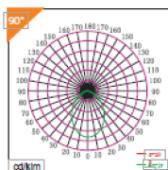
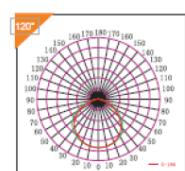
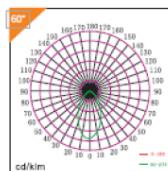
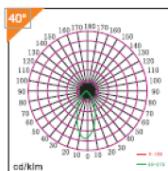


3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing Ø10 expansion screws and bracket on the wall.



4. Connect the AC cable, Black cable joins to Live wire, white cable joins to Null wire, green cable joins to grounding.

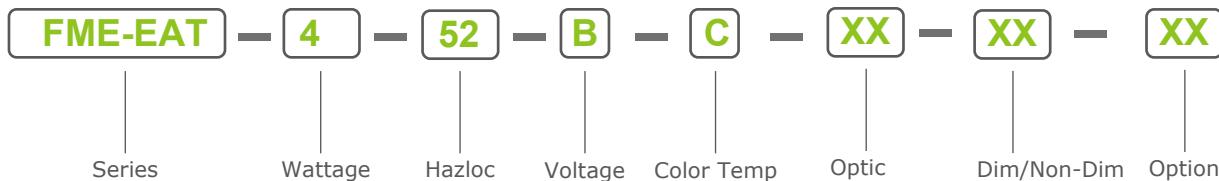
## Photometric



## Technical Parameter

Item No.	FME-EAT-2	FME-EAT-4	FME-EAT-6	FME-EAT-8	FME-EAT-10	FME-EAT-12	FME-EAT-15	FME-EAT-18
Power	20W	40W	60W	80W	100W	120W	150W	180W
Input Voltage				120-277V OR 347-480V				
Lumen	2,600	5,200	7,800	10,400	13,000	16,200	20,250	24,300
Light Efficacy				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 and Mounting Accessories



<u>SERIES</u>	<u>WATTAGE</u>	<u>HAZLOC</u>	<u>VOLTAGE</u>	<u>COLOR TEMP</u>	<u>OPTIC</u>	<u>DIM/NON-DIM</u>	<u>OPTION</u>
FME-EAT	2=20W	42=CIDI	A=AC100-277V	S= 4000K	M=40°	D=Dimmable	OPDPS=250 Stanchion
	4=40W	52=CIDI <sup>II</sup>				ND=Non-Dimmable	OPPS=90° Stanchion
	6=60W	62=CIIDI	B=AC277-480V	I= 5000K	N= 60°		OPWA=250 Wall Mount
	8=80W	72=CIII		C= 6000K	O= 90°		OPCB=90° Wall Mount
	10=100W				P= 100°		OPPP=Pendant Mount
	12=120W				Q= 110°		OPDPP=120 Pendant
	15=150W				R= 120°		OPEB=Junction Box
	18=180W						OPC= 47(in) Conduit

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 or 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.