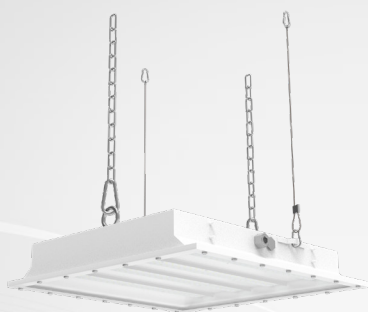
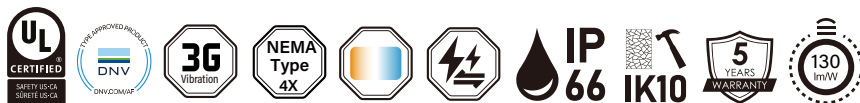
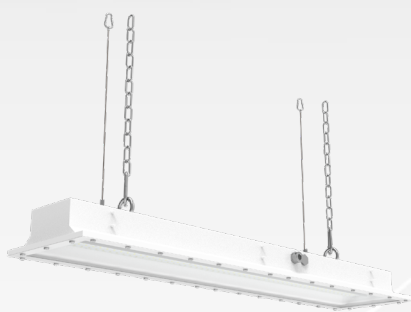


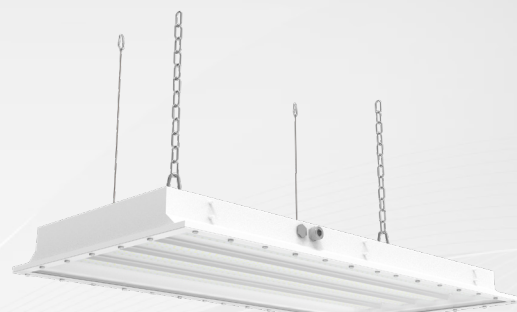
# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet



FLD2-2



FLD 1-4



FLD 2-4

## EX-FLD Spec Sheet

FLD series LED linear luminaires are designed to provide ideal illumination in the harshest environments, also suitable for marine applications. Available in four common sizes, it is certified for use in Class I, Division 2 and others made hazardous by the presence of flammable vapors or gases or combustible dusts.

## Compliance

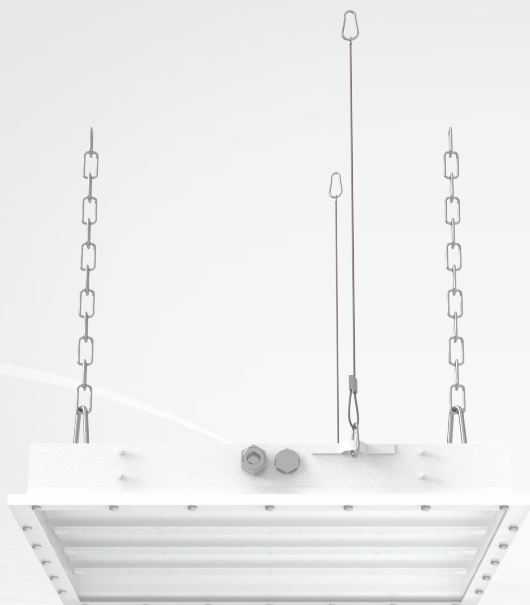
- UL 844 Hazardous Locations Class I Division 2, Group A, B, C and D Class II Division 2, Group F and G Class III
- UL 1598 Wet Locations
- UL 924 Emergency Lighting
- DNV
- ABS
- Vibration 3G
- NEMA Type 4X
- IP66
- IK10

## Application

- Wastewater Treatment Plants
- Oil and gas industry
- Metal treatment industry
- Chemical processing facility
- Ocean, marine location
- Heavy industrials storage facility
- Pharmaceutical facilities
- Food and alcohol factories
- Areas with extreme temperatures
- Hazardous locations
- Corrosive or wet environments
- Marine and hose-down areas

# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

## Benefits & Features



- Available in three common sizes
- Outstanding water and dust proof performance (IP66)
- High luminous efficacy - up to 130 lumens per watt
- Flexible, quick, and easy installation
- Safety rope included for additional protection

## Key Features and Information

### • Electrical

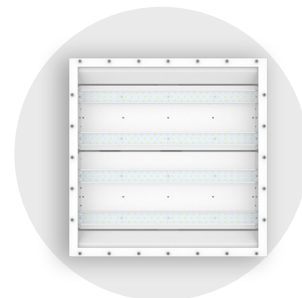
| Model              | EX-xxxW FLD2-2                                                                                                                               | EX-xxxW FLD 1-4 | EX-xxxW FLD 2-4 |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| Selectable Powe    | 40W/50W/60W                                                                                                                                  | 40W/50W/60W     | 50W/60W/80W     |
| Power Model        | FLD 2-2/1-4: SS-75EP-M54BH for 120-277VAC; HVG-65-36AB for 277-480VAC<br>FLD 2-4: SS-100EP-M54BH for 120-277VAC; HVG-100-48AB for 277-480VAC |                 |                 |
| Input Voltage      | 120-277VAC or 277-480VAC                                                                                                                     |                 |                 |
| Input Frequency    | 50/60Hz                                                                                                                                      |                 |                 |
| Power Factor @120V | > 0.95                                                                                                                                       |                 |                 |
| Service Life       | Up to 50,000 hours                                                                                                                           |                 |                 |
| Salt Spray         | 500 hours                                                                                                                                    |                 |                 |
| Power Protection   | Over-voltage, over-current and short-circuit protection                                                                                      |                 |                 |
| Dimming            | Driver includes dimming control wiring for 1-10V dimming systems<br>Requires separate 1-10V DC dimming circuit                               |                 |                 |



# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

## • Optical

| Model            | EX-xxxW FLD 2-2/1-4                                                                                                           | EX-xxxW FLD 2-4 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Selectable Power | 40W/50W/60W                                                                                                                   | 50W/60W/80W     |
| Lumens Per Watt  | 130lm/W                                                                                                                       | 130lm/W         |
| Lumen Output     | 5200lm-7800lm                                                                                                                 | 6500lm- 10400lm |
| Selectable CCT   | 4000K/5000K/6500K                                                                                                             |                 |
| CRI              | >70                                                                                                                           |                 |
| Beam Angle       | 120°                                                                                                                          |                 |
| LED              | Long-life, high-efficacy, discrete, surface-mount 2835 LEDs<br>100,000-Hour LED lifespan based on IES LM-80 results and TM-21 |                 |



(Note: Refer to the table of testing data on page 4.)

## • Mechanical

| Model                   | EX-xxxW FLD 2-2/1-4/2-4                                                          |
|-------------------------|----------------------------------------------------------------------------------|
| Housing Material        | Al6063 (standard); SUS304/SUS316/SPCC (optional)                                 |
| Lens Material           | Flat PC                                                                          |
| Hardware                | Stainless steel                                                                  |
| Waterproof Sealing Ring | Polytetrafluoroethylene                                                          |
| Fixture Color           | White                                                                            |
| Protection Rating       | Ingress protection: IP66    Impact protection: IK10                              |
| Mounting Options        | Ceiling Mount (Included)                                                         |
| Cable Entries           | 3/4" NPT                                                                         |
| Warranty                | 5-year limited warranty for fixture ; 3-year limited warranty for battery backup |

## • Ambient Temperature

| Model   | Input Voltage | Power Model    | Temperature Class            |
|---------|---------------|----------------|------------------------------|
| FLD 2-2 | 120-277VAC    | SS-75EP-M54BH  | T5: -40 °C to +55 °C (CIDII) |
|         | 277-480VAC    | HVG-65-36AB    |                              |
| FLD 1-4 | 120-277VAC    | SS-75EP-M54BH  | T5: -40 °C to +60 °C (CIDII) |
|         | 277-480VAC    | HVG-65-36AB    |                              |
| FLD 2-4 | 120-277VAC    | SS-100EP-M54BH | T5: -40 °C to +55 °C (CIDII) |
|         | 277-480VAC    | HVG-100-48AB   | T5: -40 °C to +60 °C (CIDII) |

# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

• Electrical specification (actual measurement)

| Model                  | EX-60WFLD22D40/65D120ME75T |        |        |        |        |        |        |        |        |
|------------------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Test Power             | 60W                        |        |        | 50W    |        |        | 40W    |        |        |
| Test CCT (K)           | 6500                       | 5000   | 4000   | 6500   | 5000   | 4000   | 6500   | 5000   | 4000   |
| Lumens Per Watt (lm/W) | 169.78                     | 175.44 | 174.14 | 170.55 | 175.45 | 174.88 | 169.79 | 173.55 | 174.17 |
| Lumen Output (lm)      | 10140                      | 10252  | 10317  | 8682.1 | 8781.2 | 8881   | 6958.4 | 7016   | 7124.6 |
| Beam Angle             | 113.8                      | 113.9  | 113.9  | 113.8  | 113.9  | 114    | 113.8  | 113.9  | 113.9  |
| CCT (K)                | 6230                       | 4853   | 4038   | 6221   | 4843   | 4035   | 6209   | 4829   | 4033   |
| CRI                    | 73.9                       | 74.2   | 73.3   | 73.8   | 74.1   | 73.3   | 73.9   | 74.2   | 73.3   |
| Power Factor           | 0.9995                     | 0.9995 | 0.9995 | 0.9992 | 0.999  | 0.9989 | 0.9983 | 0.9983 | 0.9983 |
| Test Voltage           | 120VAC                     |        |        |        |        |        |        |        |        |
| Test Power Model       | SS-100EP-M54BH             |        |        |        |        |        |        |        |        |

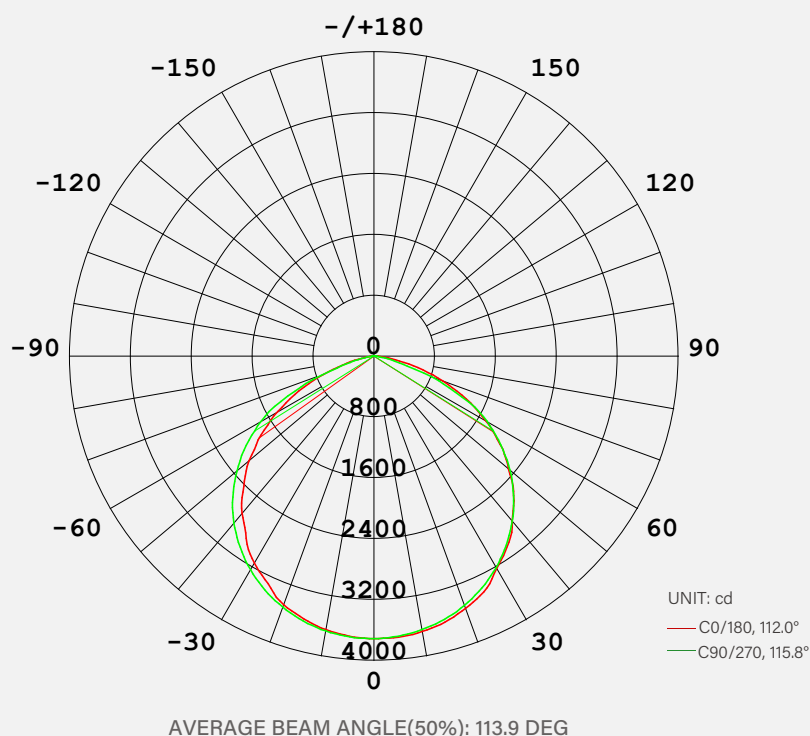
| Model                  | EX-60WFLD14D40/65D120ME75T |        |        |        |        |        |        |        |        |
|------------------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Test Power             | 60W                        |        |        | 50W    |        |        | 40W    |        |        |
| Test CCT (K)           | 6500                       | 5000   | 4000   | 6500   | 5000   | 4000   | 6500   | 5000   | 4000   |
| Lumens Per Watt (lm/W) | 168.16                     | 173.42 | 171.82 | 169.37 | 173.71 | 173.28 | 169.18 | 172.69 | 173.29 |
| Lumen Output (lm)      | 10337                      | 10439  | 10517  | 8672.3 | 8768.2 | 8898.2 | 6835.5 | 6877.8 | 6999.9 |
| Beam Angle             | 114.3                      | 114.3  | 114.3  | 114.2  | 114.3  | 114.3  | 114.3  | 114.3  | 114.3  |
| CCT (K)                | 6226                       | 4932   | 4028   | 6214   | 4932   | 4028   | 6203   | 4932   | 4028   |
| CRI                    | 73.8                       | 73.6   | 72.3   | 73.8   | 73.6   | 72.3   | 73.9   | 73.6   | 72.3   |
| Power Factor           | 0.9993                     | 0.9993 | 0.9993 | 0.9991 | 0.9992 | 0.9991 | 0.9984 | 0.9984 | 0.9984 |
| Test Voltage           | 120VAC                     |        |        |        |        |        |        |        |        |
| Test Power Model       | SS-75EP-M54BH              |        |        |        |        |        |        |        |        |

# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

| Model                  | EX-80WFLD24D40/65D120ME10T |        |        |        |        |        |        |        |        |
|------------------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Test Power             | 80W                        |        |        | 60W    |        |        | 50W    |        |        |
| Test CCT (K)           | 6500                       | 5000   | 4000   | 6500   | 5000   | 4000   | 6500   | 5000   | 4000   |
| Lumens Per Watt (lm/W) | 155.07                     | 160.2  | 156.97 | 157.67 | 161.81 | 160    | 158.55 | 158.55 | 160.99 |
| Lumen Output (lm)      | 12631                      | 12712  | 12841  | 9733.7 | 9822.2 | 9915.6 | 8142.1 | 8181.4 | 8265.8 |
| Beam Angle             | 115.4                      | 114.8  | 114.3  | 115.3  | 114.8  | 114.3  | 115.3  | 114.8  | 114.3  |
| CCT (K)                | 6314                       | 5037   | 4107   | 6320   | 5035   | 4107   | 6320   | 5030   | 4105   |
| CRI                    | 77.3                       | 76.8   | 75.2   | 77.5   | 76.9   | 75.3   | 77.5   | 76.9   | 75.3   |
| Power Factor           | 0.9988                     | 0.9987 | 0.9989 | 0.9983 | 0.9982 | 0.9983 | 0.9975 | 0.9977 | 0.9976 |
| Test Voltage           | 120VAC                     |        |        |        |        |        |        |        |        |
| Test Power Model       | SS-100EP-M54BH             |        |        |        |        |        |        |        |        |

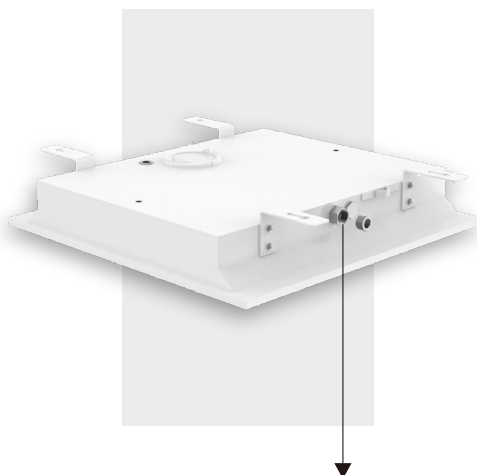
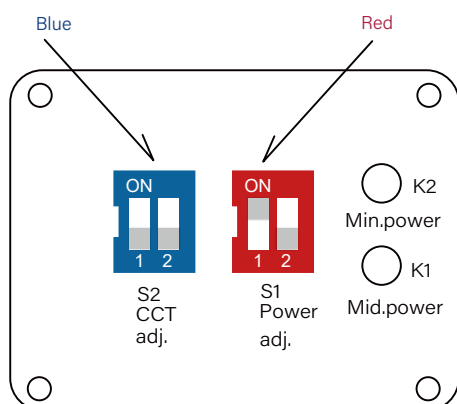
## Photometric

### • 120 Degree



# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

## Power and CCT Selectable



Power and CCT Selectable



DIP switch

## Operating Instructions

### • S1 DIP switch - Red (S1 Power adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three selectable output ratings. Factory default settings and power levels can be customized based on project requirements.

1. Maximum Output (100% nominal power)  
Switch configuration: Dial 1 = OFF, Dial 2 = OFF;



FLD2-2: 60W

2. Medium Output (70%-90% of nominal power, depending on specification) Switch configuration: Dial 1 = ON, Dial 2 = OFF



FLD2-2: 50W

3. Minimum Output (50%-70% of nominal power, depending on specification) Switch configuration: Dial 1 = OFF, Dial 2 = ON



FLD2-2: 40W

### • S2 DIP switch - Blue (S2 CCT adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three preset color temperature options. The factory default setting can be customized according to order requirements.

1. Cool white, e.g. 6500K  
Switch configuration: Dial 1 = OFF, Dial 2 = OFF



6500K

2. Neutral white, e.g. 5000K  
Switch configuration: Dial 1 = ON, Dial 2 = OFF



5000K

3. Warm white, e.g. 4000K  
Switch configuration: Dial 1 = ON, Dial 2 = ON

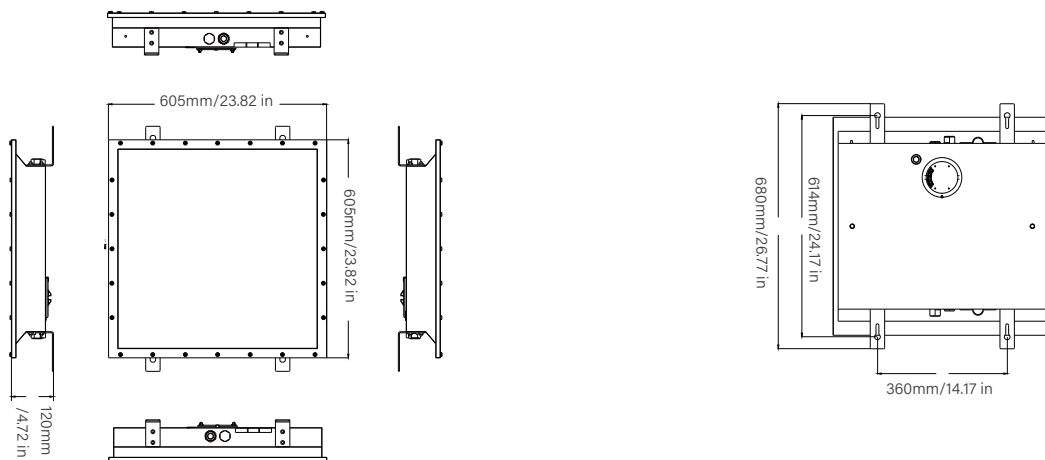


4000K

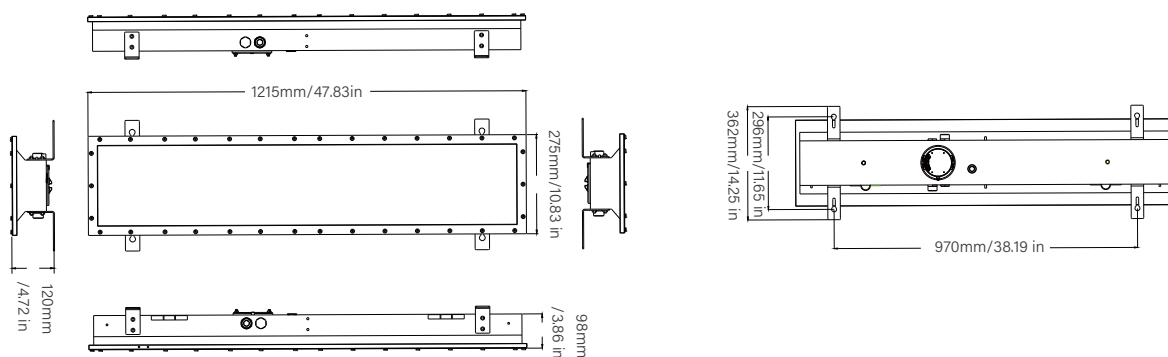
# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

## Product Dimensions Unit: mm[inch]

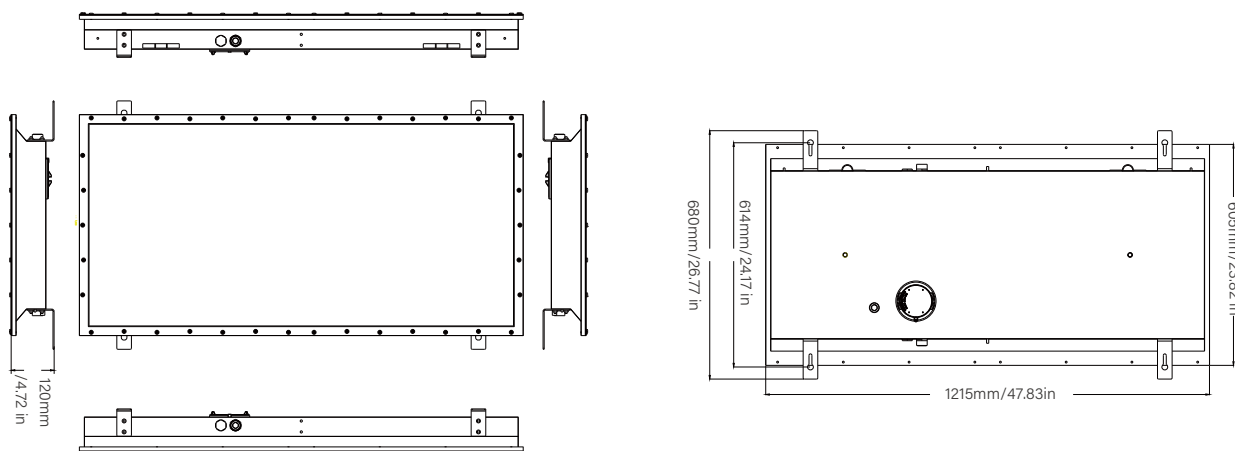
### • FLD 2-2



### • FLD 1-4



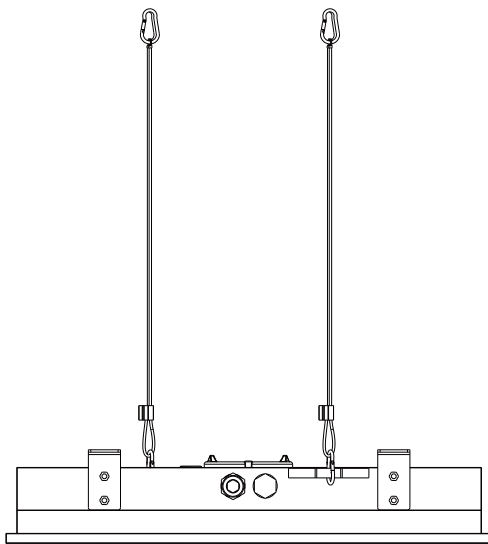
### • FLD 2-4



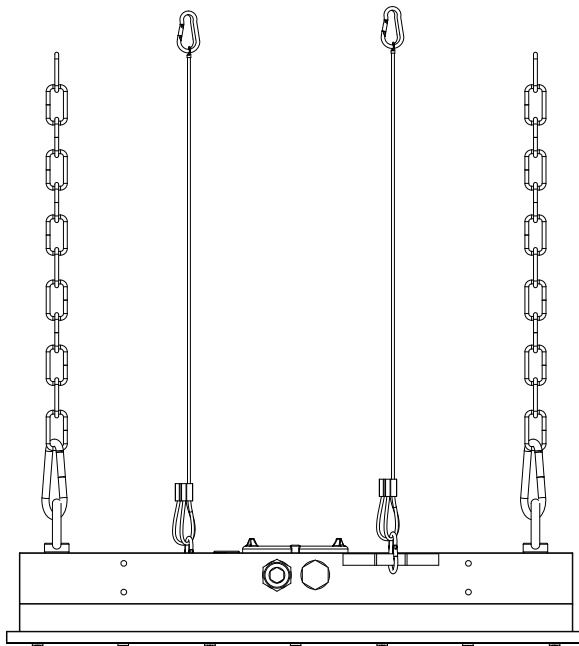
# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

## Mounting Methods

- Option 1: Ceiling Mount (Included)

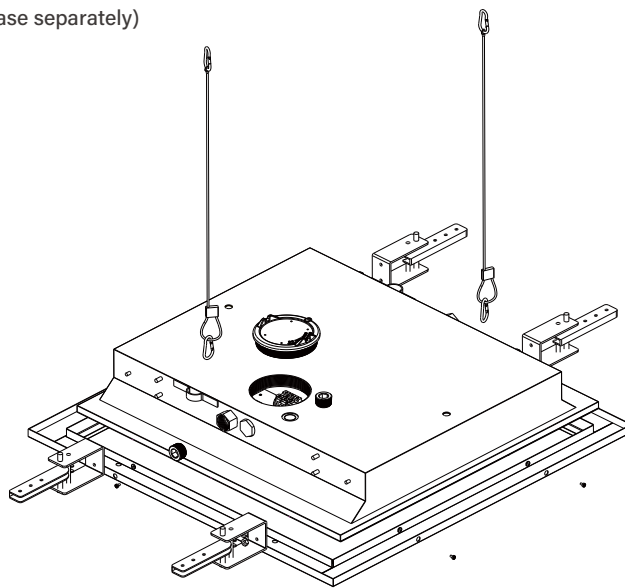


- Option 2: Pendant Mount (Purchase separately)



# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

- Option 3: Recessed Mount (Purchase separately)



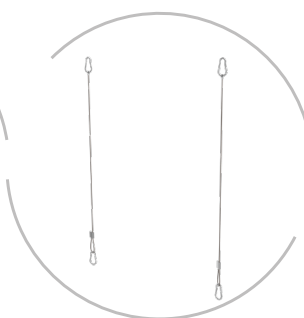
## Packing Information

| Model   | Product Dimensions (LxWxH)       | Gross Weight | Product Dimensions (LxWxH)      | Quantity/Carton |
|---------|----------------------------------|--------------|---------------------------------|-----------------|
| FLD 2-2 | 605x605x120mm/23.8x23.8x4.7inch  | 21kg/46.3lb  | 700x680x175mm/27.6x26.8x6.9inch | 1 pc            |
| FLD 1-4 | 275x1215x120mm/1.8x47.8x4.7inch  | 20kg/44lb    | 1320x350x175mm/52x13.8x6.9inch  | 1 pc            |
| FLD 2-4 | 605x1215x120mm/23.8x47.8x4.7inch | 30kg/66.1lb  | 1320x680x175mm/52x26.8x6.9inch  | 1 pc            |

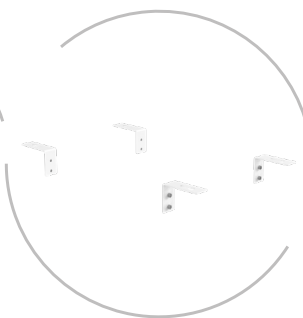
## Accessories



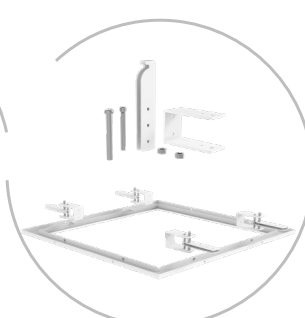
F- suspension  
chain & ring



F- Safety Cable  
(Included)



F- Ceiling mount  
(Included)



F- Recessed mount  
accessory

# HAZARDOUS LOCATION LED LUMINAIRE EX-FLD Spec Sheet

## Ordering Guide

