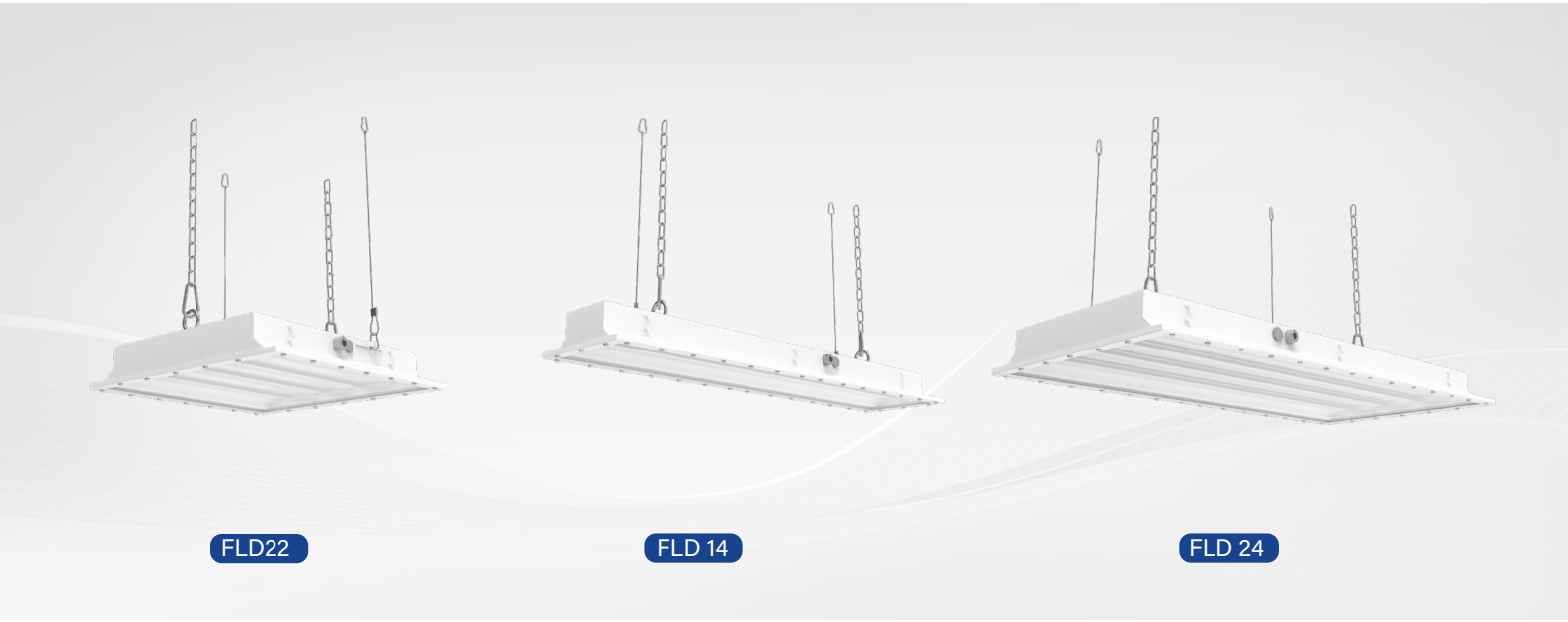
HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

Pan American
Professional Lighting Manufacturer



EX-FLD Spec Sheet

FLD series LED linear luninaires 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 LocationsClass
  Class I Division 2, Groups A, B, C and D
  Class II Division 2, Groups F and G
  Class III
- UL 1598 Wet Locations
- UL 924 Emergency Lighting
- DNV
- ABS
- Vibration 3G
- NEMA Type 4X
- IP66
- IK10

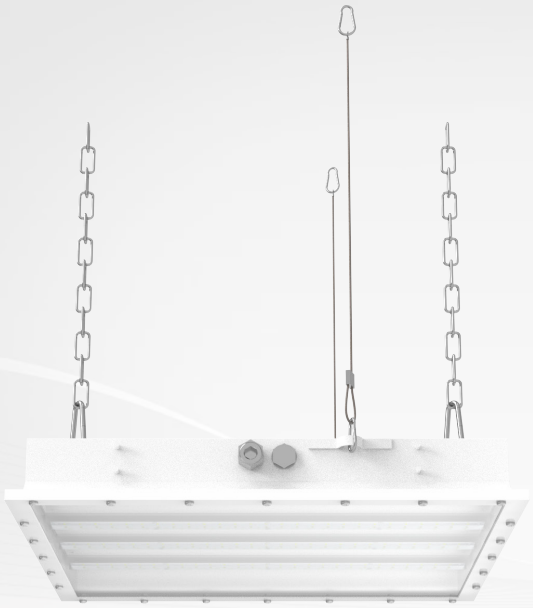
Application

- 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 LOCATIONS LED LUMINAIRE
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Benefits & Features



- The housing (bottom shell) of this product is made of high-strength SPCC material, and the top shell is made of AL6063 aluminum profile, giving it excellent impact resistance.
- All end caps and cable glands are made of SUS304 (SUS316 or nickel-plated brass available as options) with an electrostatic spray coating for superior corrosion resistance.
- Easy to install and wire — simply open the rear wiring cover to make the connection.
- Three mounting options: Ceiling Mount(included)/Pendant Mount (Purchase separately)/ Recessed Mount(Purchase separately)
- Equipped with a safety rope to prevent the luminaire from falling in case of mounting bracket failure.

Key Features and Information

• Electrical

Model	EX-xxxW FLD22	EX-xxxW FLD 14	EX-xxxW FLD 24
Selectable Powe	40W/50W/60W	40W/50W/60W	50W/60W/80W
Power Model	FLD 22/14: SS-75EP-M54BH for 120-277VAC; HVG-65-36AB for 277-480VAC; FLD 24: 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 Requires separate 1-10V DC dimming circuit		



HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

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• Optical

Model	EX-xxxW FLD 22/14	EX-xxxW FLD 24
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 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 22/14/24
Housing Material	US304 (standard); SUS316/SPCC (optional)
Diffuser Type	Flat PC/Flat Glass
Face shell Material	Al6063 (standard)
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 22	120-277VAC	SS-75EP-M54BH	T5: -40℃ to +55℃ (CIDII)
	277-480VAC	HVG-65-36AB	
FLD 14	120-277VAC	SS-75EP-M54BH	T5: -40℃ to +60℃ (CIDII)
	277-480VAC	HVG-65-36AB	
FLD 24	120-277VAC	SS-100EP-M54BH	T5: -40℃ to +55℃ (CIDII)
	277-480VAC	HVG-100-48AB	T5: -40℃ to +60℃ (CIDII)

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

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- 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								

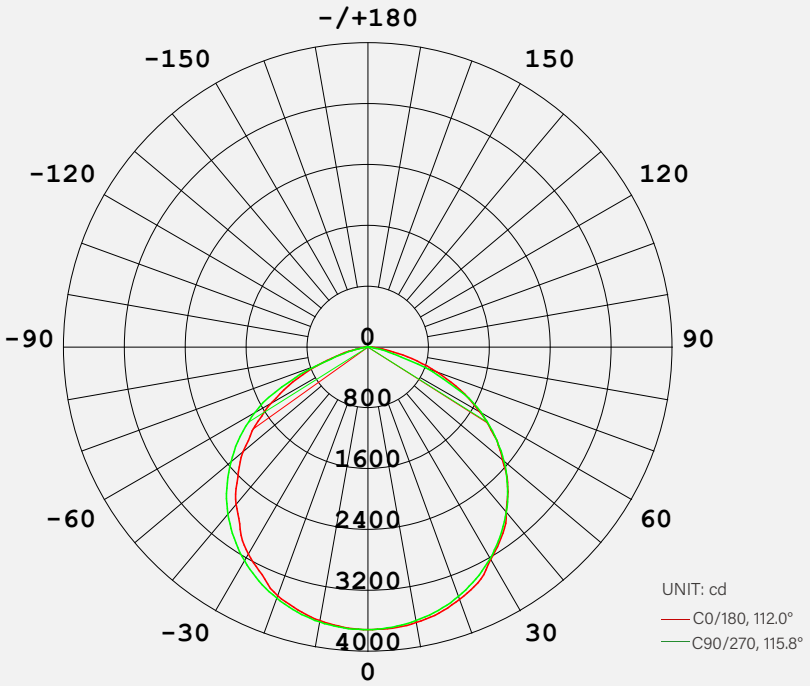
HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

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Professional Lighting Manufacturer

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

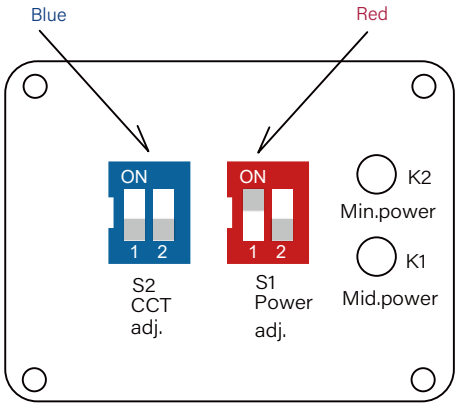


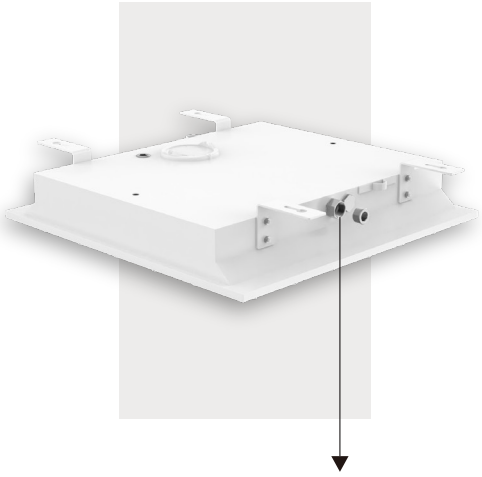
AVERAGE BEAM ANGLE(50%): 113.9 DEG

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

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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



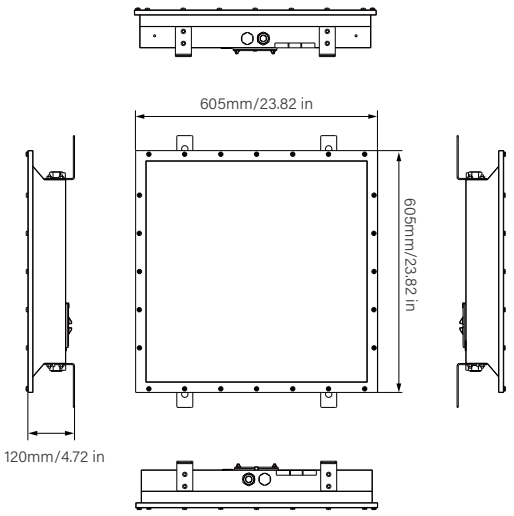
4000K

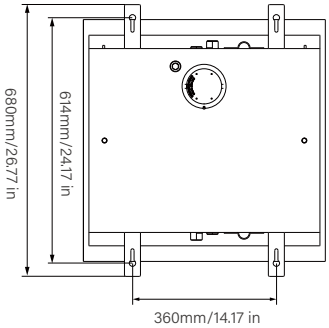
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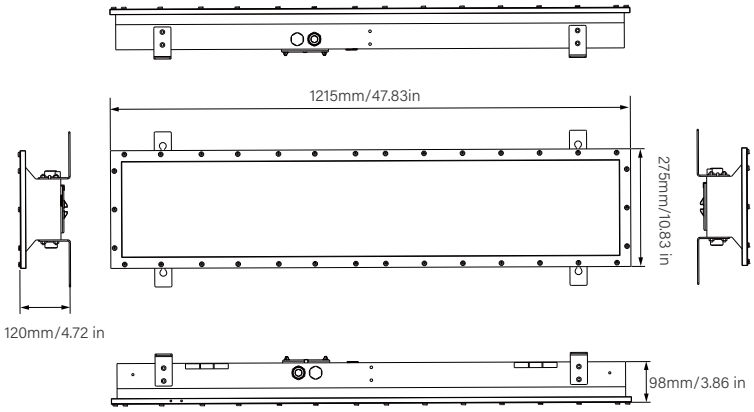
Product Dimensions Unit: mm[inch]

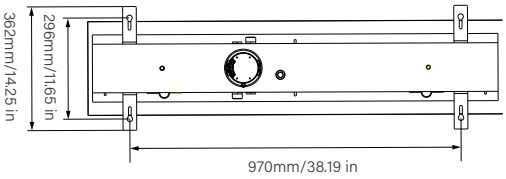
• FLD 22



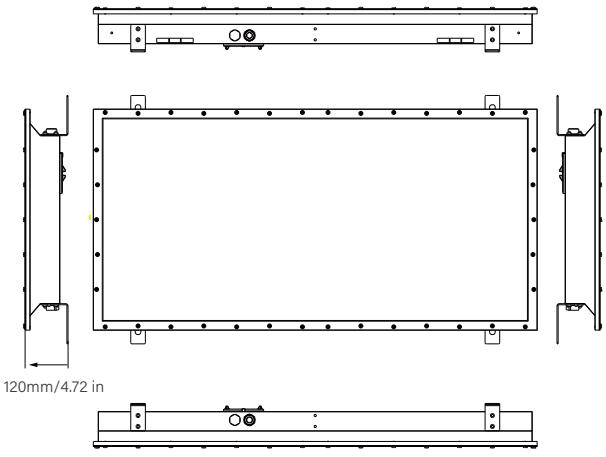


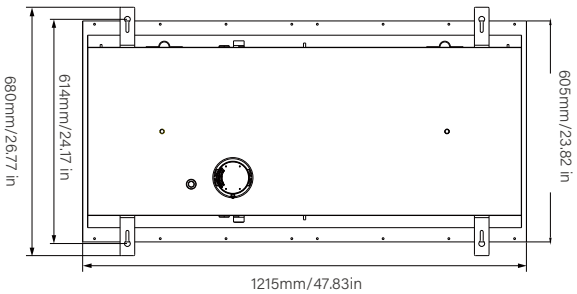
• FLD 14





• FLD 24



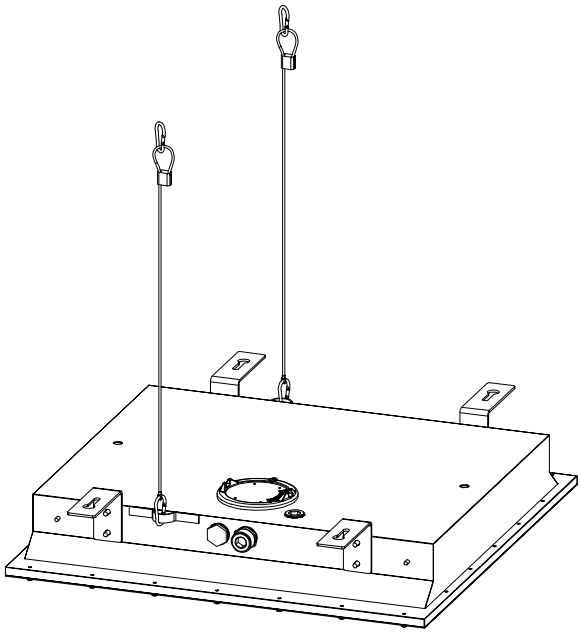


HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

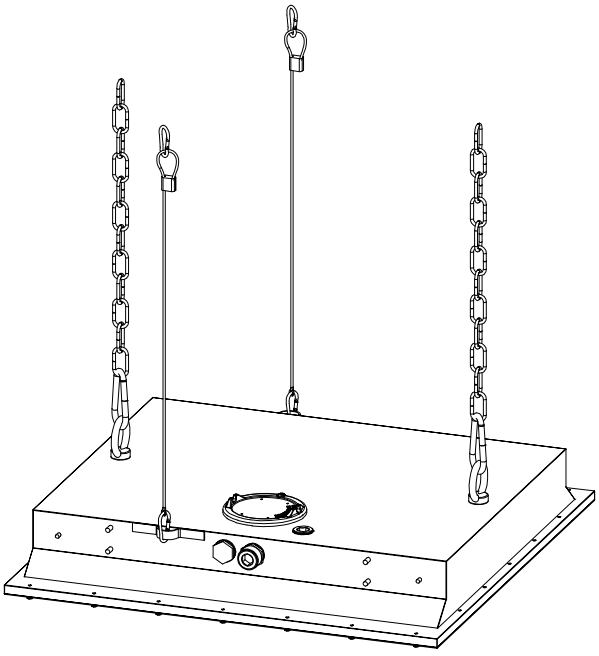
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Mounting Methods

- Option 1: Ceiling Mount (Included)



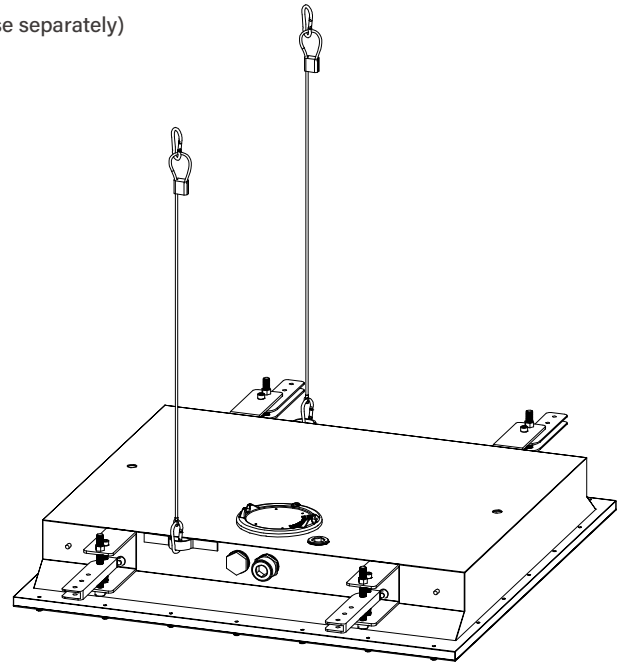
- Option 2: Pendant Mount (Purchase separately)



HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

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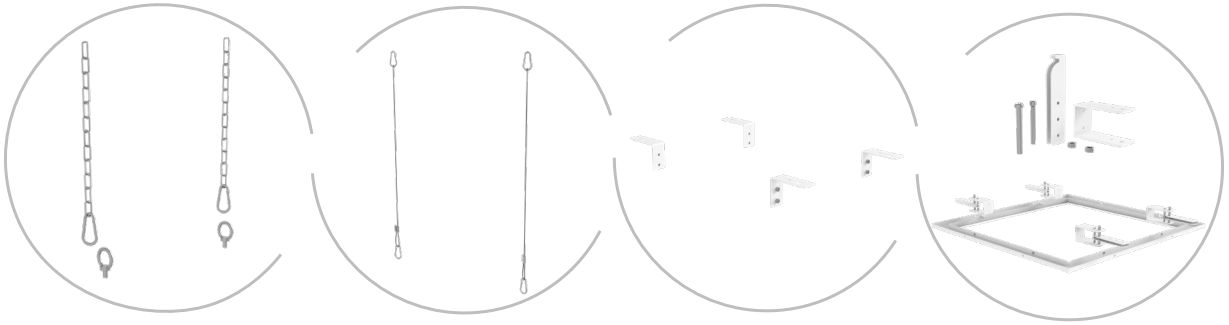
• Option 3: Recessed Mount (Purchase separately)



Packing Information

Model	Product Dimensions (LxWxH)	Gross Weight	Product Dimensions (LxWxH)	Quantity/Carton
FLD 22	605x605x120mm/23.8x23.8x4.7inch	21kg/46.3lb	700x680x175mm/27.6x26.8x6.9inch	1 pc
FLD 14	275x1215x120mm/1.8x47.8x4.7inch	20kg/44lb	1320x350x175mm/52x13.8x6.9inch	1 pc
FLD 24	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 LOCATIONS LED LUMINAIRE
EX-FLD Spec Sheet

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Ordering Guide

EX - xxW FLD 24 D 50 D120 H E75 T S E

Basic Model Series
EX

Rated input power
Selectable:
FLD22:40W/50W/60W
FLD14:40W/50W/60W
FLD24:50W/60W/80W

Model series name
FLD

Dimension of Housing
22= 2 ft x 2 ft long
14 = 1 ft x 4 ft long
24= 2 ft x 4 ft long

Dimming
D - Dimmable

LED color temperature
Selectable:
50 = 4000K/5000K
6500K

Beam angle
D120 = 120 degrees

Input Voltage
Blank = 120-277 V
or 200-277 V
M = 120-347 V
H = 277-480 V

LED Driver
E75=SS-75EP-M54BH
H65=HVG-65-36AB
E100=SS-100EP-M54BH
H10=HVG-100-48AB

Dual Tunable or not
Blank =
Without Tunable
T = With Tunable

Sensor or not
-S=with Low Voltage
motion sensor
Blank = Without Sensor

Backup Power
Blank = without Backup Power source
-E = with Backup Power source