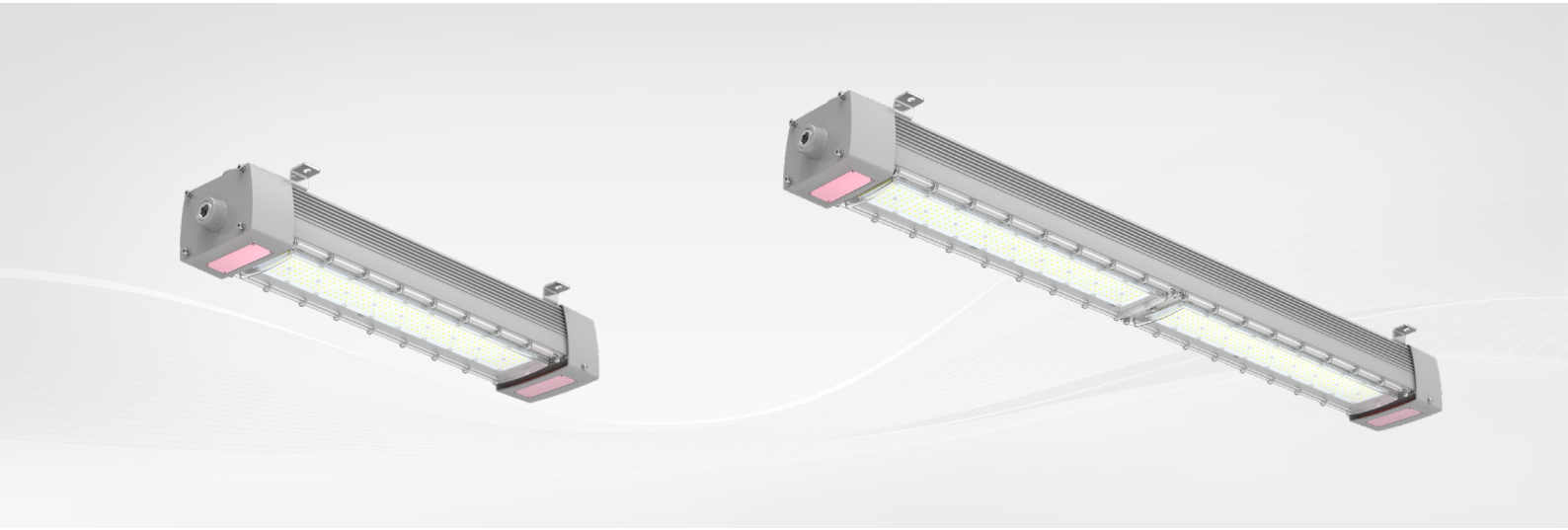
HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLG Spec Sheet

Pan American
Professional Lighting Manufacturer



FLG2 FLG4

EX FLG Spec Sheet

The FLG Series LED fixture is designed for marine and hazardous locations requiring linear illumination. It is suitable for areas classified as hazardous by the presence of flammable gases, vapors, or combustible dusts in accordance with UL requirements.

Compliance

- **UL 844 Hazardous Locations Class**
  Class I Division 2, Groups A, B, C and D
  Class II Division 1, Groups E, F and G
  Class II Division 2, Groups F and G
  Class III
- **UL 1598A Marine Outside Type**
- DNV
- ABS
- Vibration 3G
- NEMA Type 4X
- IP66
- IK10

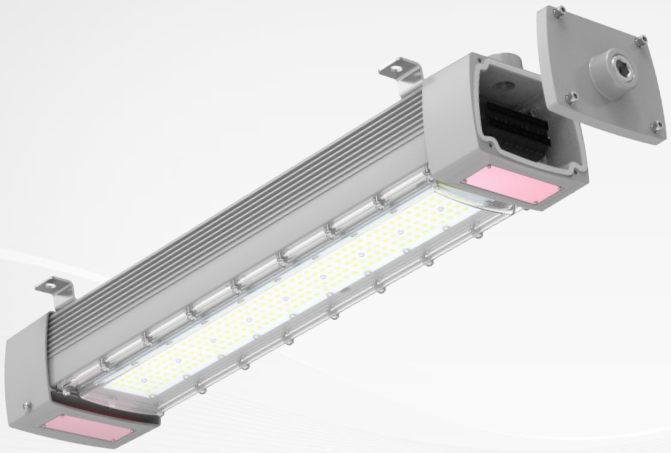
Application

- Heavy Industrials Storage Facility
- Paper Mills
- Chemical Processing Facility
- Power Plants
- Petrochemical Processing Facility
- Offshore Environments
- Wastewater Treatment Plants
- Food and Alcohol Industry

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLG Spec Sheet

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Benefits & Features



- Fixed mounting design for quick installation.
- Top cable entry for easy wiring.
- Side wiring access covers with captive screws.
- Aluminum alloy housing for superior corrosion and heat dissipation performance.
- Optical system with PC diffuser for visual comfort and uniform illumination; multiple beam options available.
- High-efficiency optics reduce luminaire quantity and lower installation and operating costs.

Key Features and Information

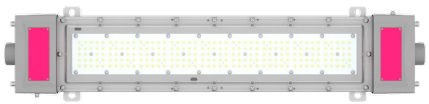
• Electrical

Model	EX-xxxW FLG2	EX-xxxW FLG2
Selectable Power	30W/40W/60W	80W/100W/120W
Power Model	FLG2: SS-75VP-56BH for 120-277VAC ; HVG-100-48AB for 277-480VAC FLG4: SS-150VP-56BH for 120-277VAC ; HVG-150-48AB for 277-480VAC	
Input Voltage	120 - 277VAC/277 - 480VAC	
Input Frequency	50/60Hz	
Power Factor @120V	> 0.95	
Optional Emergency Function	Min. 90 mins (Contact sales for EM options)	
Service Life	Up to 50,000 hours	
Salt Spray	1000 Hours	
Dimming	Driver includes dimming control wiring for 1-10V dimming systems. Requires separate 1-10V DC dimming circuit.	



HAZARDOUS LOCATIONS LED LUMINAIRE
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- optical

Model	EX-xxxW FLG2	EX-xxxW FLG4
Selectable Power	30W/40W/60W	80W/100W/120W
Lumens Per Watt	180lm/W	180lm/W
Lumen Output	5400-10800lm	14400lm-21600lm
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 FLG2/FLG4
Housing Material	Aluminum
Diffuser Material	Clear Polycarbonate(PC)/ Frosted Polycarbonate(PC)
Gasket Material	Silicone Rubber
Protection Rating	Ingress protection: IP66　Impact protection: IK10
Hardware	SUS304
Mounting Options	Ceiling(Included), Pole(Purchase separately) , Guide Rail(Purchase separately)
Cable Entry	3/4" NPT
Outlet	1. Side wiring access covers with captive screws.　2. Wiring is not supplied as standard. Customized wiring options are available upon request.
Warranty	5 years(emergency backup battery for 2 years)

- Ambient Temperature

Model	Input Voltage	Power Mode	Temperature Class
FLG2	120-277VAC	SS-75VP-56BH	T5: -40℃ to +65℃ (CIDII)
	277-480VAC	HVG-100-48AB	
FLG4	120-277VAC	SS-150VP-56BH	T5: -40°C to 65°C (CIDII)
	277-480VAC	HVG-150-48AB	

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLG Spec Sheet

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- Electrical specification (actual measurement)

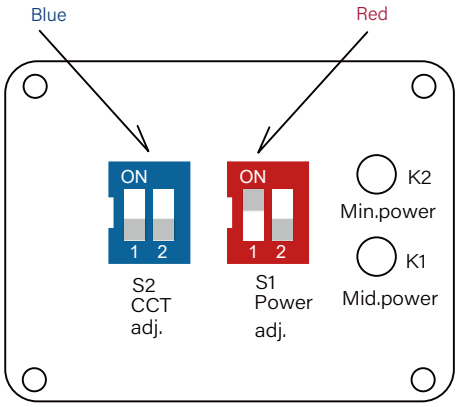
Model	EX-60WFLGB2D50D120VP75T								
Test Power	60W			40W			30W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	182.96	186.74	183.11	182.45	184.87	183.23	179.4	181.73	181.94
Lumen Output (lm)	11006	11004	10937	7371.5	7358.9	7409.6	5506.7	5476.9	5572.3
Beam Angle	117	116.8	116.5	117.1	116.8	116.5	117.1	116.8	116.5
CCT (K)	6130	4895	4010	6114	4893	4007	6107	4891	4007
CRI	73.9	74.5	74	73.9	74.5	74.1	73.6	74.6	74.2
Power Factor	0.9964	0.9962	0.9964	0.9918	0.9924	0.9925	0.9877	0.9871	0.9875
Test Voltage	120VAC								
Test Power Model	SS-75VP-56BH								

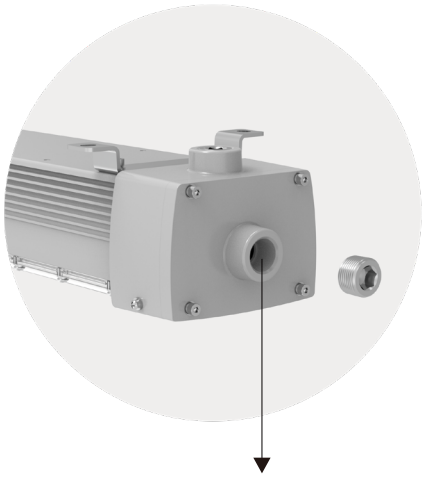
Model	EX-120WFLGB4D50D120VP15T								
Test Power	120W			100W			80W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	186.6	191.62	188.41	189.57	191.7	163.96	190.2	191.38	190.38
Lumen Output (lm)	22188	22246	22280	18725	18600	18714	15043	14901	15062
Beam Angle	116.3	116.1	115.8	115.8	116.1	115.8	115.8	116	115.8
CCT (K)	6175	4929	4065	6161	4925	4062	6151	4922	4060
CRI	74	74.5	74.1	74	74.5	74.1	74	74.6	74.1
Power Factor	0.9955	0.9955	0.9955	0.9936	0.9934	0.9936	0.9905	0.9902	0.9905
Test Voltage	120VAC								
Test Power Model	SS-150VP-56BH								

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLG 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;



FLG2: 60W

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



FLG2: 40W

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



FLG2: 30W

- **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



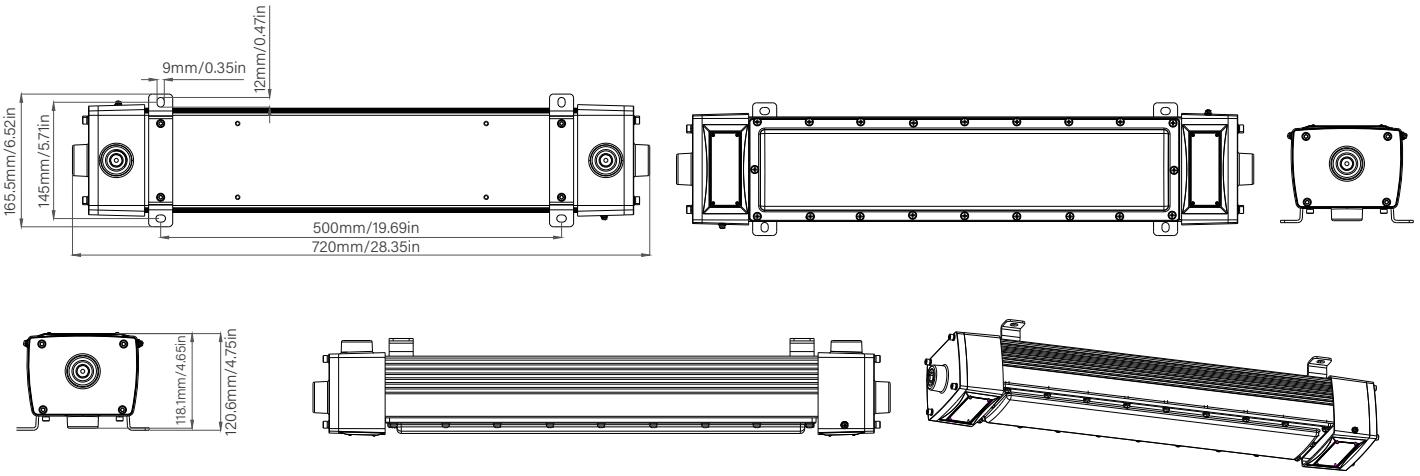
4000K

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLG Spec Sheet

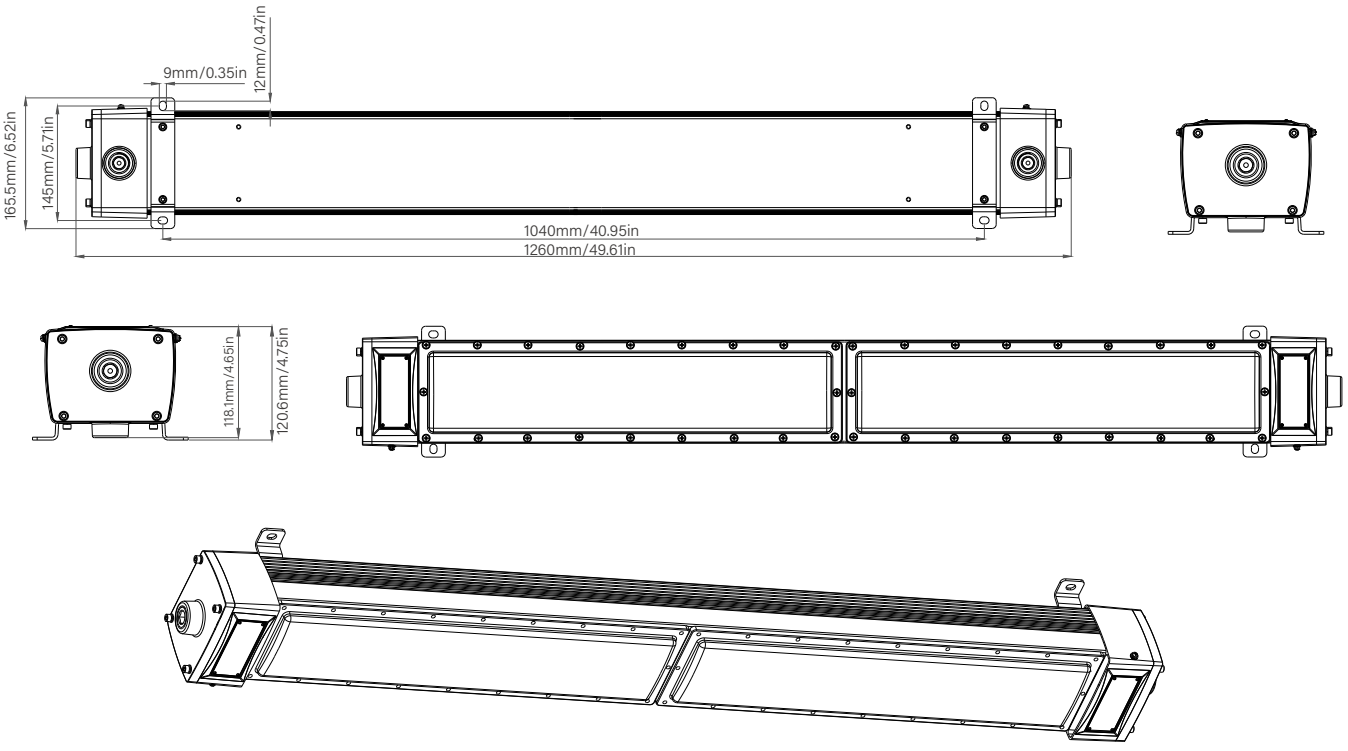
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Product Dimension (Unit: inch)

- FLG2



- FLG4

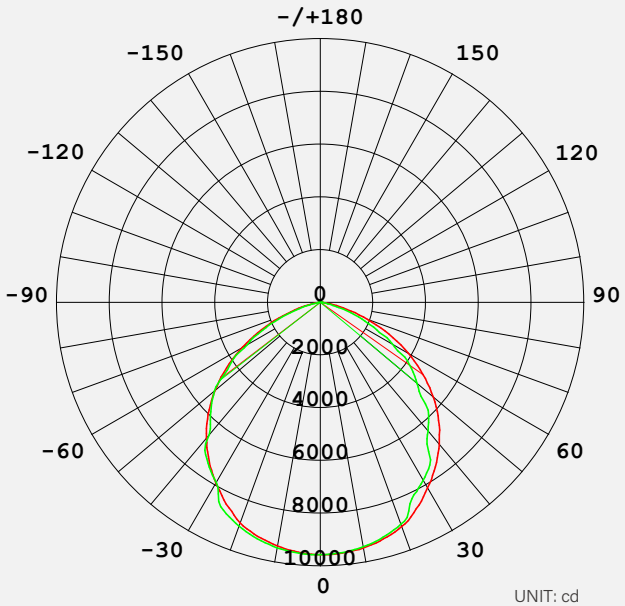


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EX-FLG Spec Sheet

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Photometric

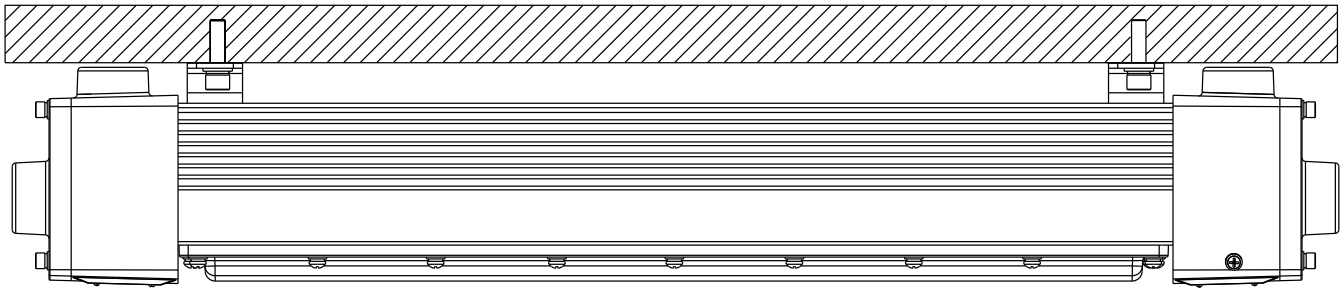
- 120 Degree



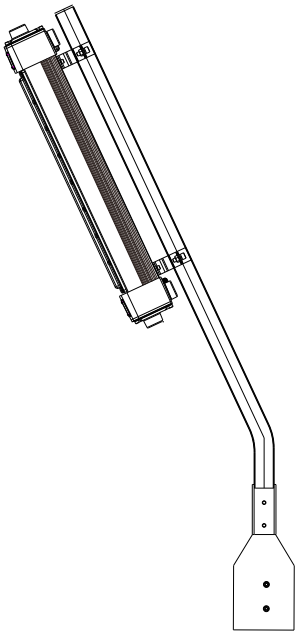
AVERAGE BEAM ANGLE(50%): 115.8 DEG

Mounting Methods

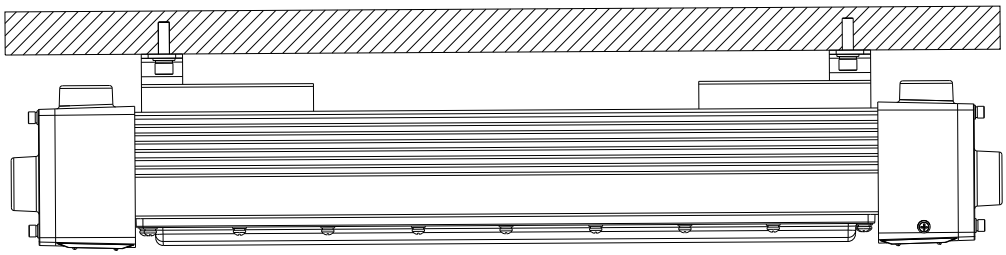
- Option 1: Ceiling Mounting

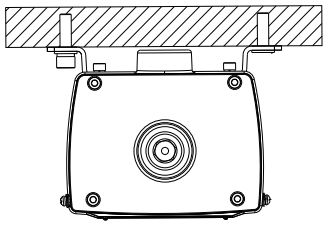


- Option 2:Pole Mounting



- Option 3: Guide Rail Mounting





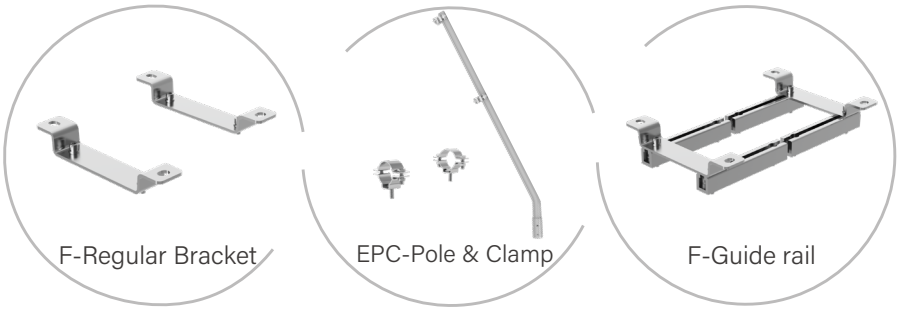
Packing Information

Model	Package Dimensions	Net Weight	Gross Weight	Quantity/Carton
FLG2	845x226x215mm/33.27×8.90×8.46inch	5.8kg/12.79 lb	6.42 kg/14.15 lb	1 pc
FLG4	1385x226x215mm/54.53×8.90×8.46inch	8.75 kg/19.29 lb	9.54kg/20.93 lb	1 pc

HAZARDOUS LOCATIONS LED LUMINAIRE
EX-FLG Spec Sheet

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Accessories



Ordering Guide

EX - xxW FLG B 2 D 50 D120 CP L T 1

Basic Model Series
EX – for all luminaires

Luminaire input wattage rating
Selectable:
FLG2:30W/40W/60W
FLG4:80W/100W/120W

Luminaire series
FLG

Junction Box and Junction Box Cover Type
FLG-B Shell, FLG-B Junction Box and FLG-B Junction Box Cover

Length of shell
2= the length of shell is 572 MM
4= the length of shell is 1112 MM

Dimming function
D - Dimmable
Blank – Not Dimmable

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

Light distribution beam angle
D120 = 120 degrees

Designates the diffuser type
CP = Clear PC Cover
FP = Frosted PC Cover

Type of Input
H= 200-480V
277-480V
M = 120-347 V
L=120-277 V

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

LED Driver
VP75=SS-75VP-56BH
VP15=SS-150VP-56BH
H10=HVG-100-48AB
H15=HVG-150-48AB