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GUARDIAN HAZARDOUS LED LUMINAIRE

Explosion-Proof Floodlight

[EPL-B Series]

Up to 100
Lumens Per Watt

Harsh &
Hazardous Duty

L80 Value
50,000+ Hours

IP66
Rated

Powered By:  **CREE** 

www.kenjitsuusa.com

GUARDIAN Explosion-Proof Led Light (EPL-B Series)

Designed for durability & flexibility

Product Family Information

The GUARDIAN EPL-B Series LED Luminaire are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambient can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC and IEC.

NJZ-FEL-B Series are ideal for retrofit of existing HPS/MH and offer higher efficacy for increased energy savings, lower maintenance costs and shorter paybacks.

Features

- Instant On-including after power interruption
- World Voltage AC 100-277V 50/60Hz
- 50,000+ maintenance free hours @L80
- Heavy duty copper-free anodized die-cast aluminum housing
- Shell surface of electrostatic spraying, Excellent anti-corrosive property
- All exposed fasteners with quality stainless steel
- Thermal shock and 7J impact resistant tempered glass lens
- Shell protection, over-voltage and over heat protection
- Harsh & Hazardous Duty

Application

- Gas Station
- Storage Facility
- Manufacturing Plant
- Marine Loading Terminals
- Chemical Processing Facility
- Petrochemical Processing Facility

Compliance

NEC Standard

- Class I, Div. 2, Groups C, D
- Class I, Zone 1&2, Groups IIB, IIA
- Class II, Div. 2, Groups EFG
- Class III
- Enclosure Type 4 (NEMA 4, 7B CD, 9EFG)

ATEX + IECEx Standard

- Zone 1 and Zone 21 areas
- Zone 2 and Zone 22 areas
- EN 60079-0, EN 60079-1, EN 60079-31
- Cert # IEP 15 ATEX 0326
- Ex II 2G Ex d IIB T5 Gb
- Ex II 2D Ex tb IIIC 95 °C Max Db IP 66
- Temp. -30°C to +50°C
- Enclosed and Gasket



TECHNICAL PARAMETER

Guardian (EPL-B)



Electrical	Power Consumption	20W	40W	50W	60W
	Input Voltage	AC90~265V			
	Power Frequency	50/60Hz			
	Power Factor	≥0.95			
	LED Driver Brand	Meanwell			
Optical	LED Chip Brand	CREE XT-E R4			
	Luminous Flux(Lumen Output)	≥2100Lm	≥4000Lm	≥4800Lm	≥5400Lm
	Beam Angle	60°/110°			
	CCT	5500K			
	CRI(Ra)	≥70			
Environment	Operating Temperature	-30°C ~ +50°C / -22°F to 122°F			
	Operating Humidity	20%~95% RH			
	Gas Environment	T5			
	Dust Environment	T95°C			
Mechanical	Housing Material	Die-cast Aluminum			
	Lamp Glass	Tempered Glass			
	Mounting Options	Ceiling Type; Hanging Chain; Wall Type; Floor Type			
	I P & I K Rating	IP 66 / IK 08			
	Corrosion-proof Grade	Rate 10 (ASTM B117-11)			
	Inlet Thread	M25×1.5mm			
	Cable's Spec	Φ12.5~20mm			
	Mounting Height	3~6m/ 9.8~19.6ft			
	Dimensions(L*W*H)	240*200*130mm/ 9.4*7.9*5.1in			
Packing	Net Weight	4.6kg/ 10.1lbs			
	Dimensions(L*W*H)	327*290*200mm/12.9*11.4*7.9in			
	Gross Weight	5.5kg/ 12.1lbs			
Warranty	3-year standard warranty/ Extendable to 5-year				
	Lumen Maintenance: 50,000 hours @L80				

TECHNICAL PARAMETER

Guardian (EPL-B)



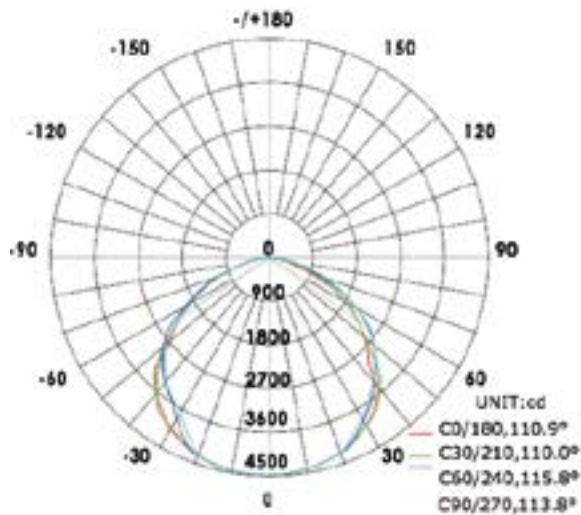
	Power Consumption	80W	100W	120W	150W
Electrical	Input Voltage	AC 1000~277V			
	Power Frequency	50/60Hz			
	Power Factor	≥0.95			
	LED Driver Brand	Meanwell			
	LED Chip Brand	CREE XT-E R4			
Optical	Luminous Flux(Lumen Output)	≥8800Lm	≥10400Lm	≥13300	≥15500Lm
	Beam Angle	60°/110°			
	CCT	5500K			
	CRI(Ra)	≥70			
Environment	Operating Temperature	-30°C ~ +50°C / -22°F to 122°F			
	Operating Humidity	20%~95% RH			
	Gas Environment	T5			
	Dust Environment	T95°C			
Mechanical	Housing Material	Die-cast Aluminum			
	Lamp Glass	Tempered Glass			
	Mounting Options	Ceiling Type; Hanging Chain; Wall Type; Floor Type			
	I P & I K Rating	IP 66 / IK 08			
	Corrosion-proof Grade	Rate 10 (ASTM B117-11)			
	Inlet Thread	M25×1.5mm			
	Cable's Spec	Φ12.5~20mm			
	Mounting Height	6~15m/ 19.6~49.2ft			
	Dimensions(L*W*H)	335*280*164mm/ 13.2*11.0*6.5in			
	Net Weight	12.2kg/ 26.9lbs			
Packing	Dimensions(L*W*H)	370*362*233mm/ 14.6*14.3*9.2in			
	Gross Weight	13.5kg/ 29.7lbs			
Warranty	3-year standard warranty/ Extendable to 5-year				
	Lumen Maintenance: 50,000 hours @L80				

PHOTOMETRIC

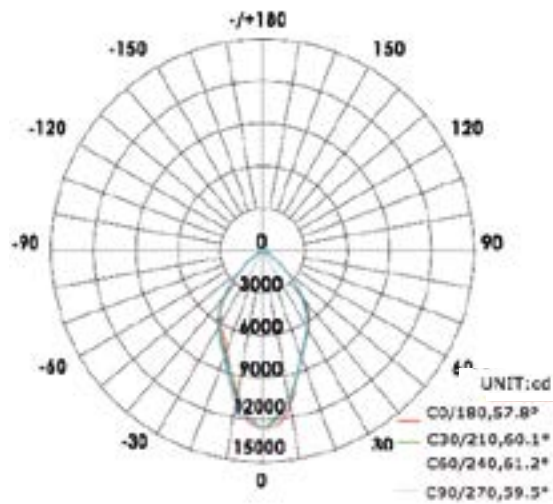
Lens selection by application

The Guardian EPL-B Series optical lens system enables LEDs to provide precise illumination where needed. Lenses are designed for commercial & Industrial applications where mounting height, fixture spacing & light levels help determine lens selection. Consult factory for specific project layouts. Ask manufacture for IES files.

Optics for Common Applications



Average Beam Angle (50%):112.6 DEG



Average Beam Angle (50%):59.7 DEG

Dimension

Product Dimension (EPL-B-Series)

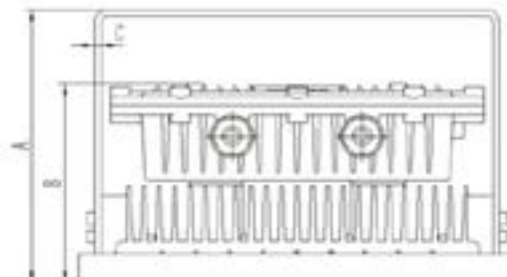
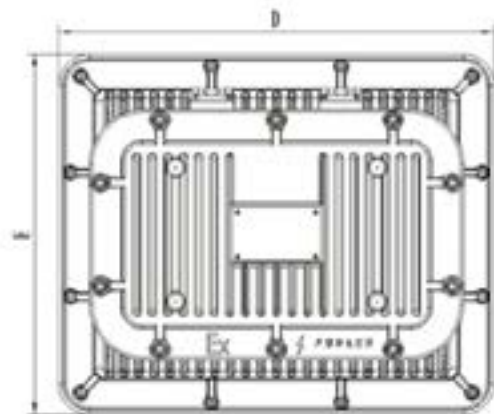
EPL-B (80W/100W/120W/150W)

Measuring Unit : mm

A	B	C	D	E
218	159	4	336	279

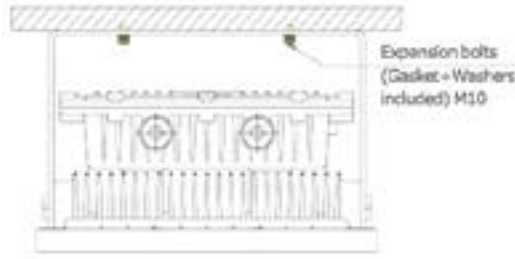
EPL-B (20W/40W/50W/60W)

A	B	C	D	E
205	130	3	240	200

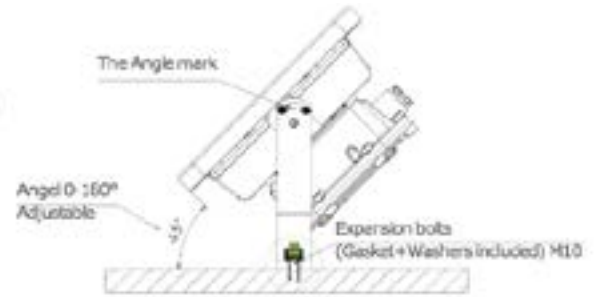


Mounting

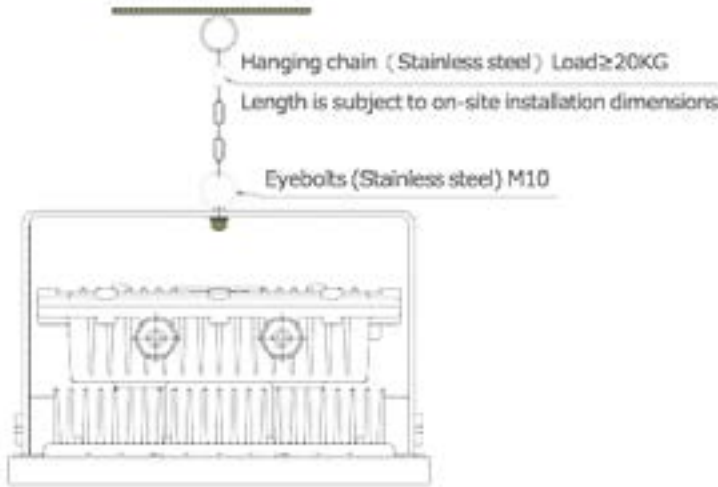
- Ceiling Type
- Hanging Chain
- Wall Type
- Floor Type



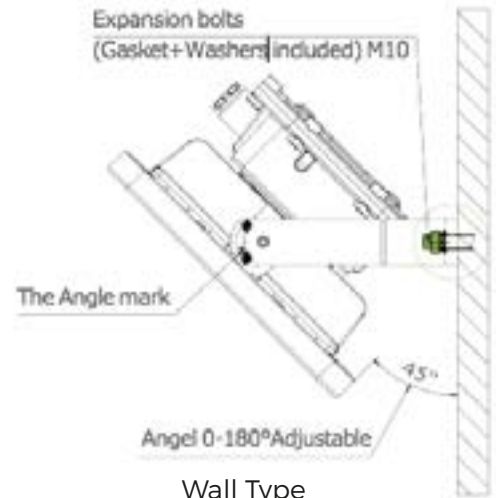
Ceiling Type



Floor Type



Hanging Chain



Wall Type

ORDERING INFORMATION-LED EXPLOSION-PROOF FLOODLIGHT

Ordering Example:

EPL-B - 150 - U - CW - 60 - N - CT - K

Series	Wattage	Voltage	Color Temp.	Beam Angle	Dimming Control & Sensor	Mounting	Power Cord
SERIES EPL-B	WATTAGE 20 20W 40 40W 50 50W 60 60W 80 80W 100 100W 120 120W 150 150W	VOLTAGE U= Universal AC100-277V 3= 347 4= 480 (*Specify single voltage)	COLOR TEMP. CW= 5500K (Cool White) CW= 4000K (Cool White)	BEAM ANGLE 60=60° 110=110°	DIMMABILITY N=Non D=0- 10V O=Occupancy Sensor	MOUNTING CT=Ceiling Type HC=Hanging Chain FT=Floor Type WT=Wall	POWER CORD K=Knock out access with Explosion-proof Gland

C= Custom cord & plug required

(*Consult factory for ordering custom cord Length or plug type, may take longer delivery time.)

Note:
Please consult factory if you have any demand in particular.
For example: Dimming Driver, Intelligent Control System, etc.



INTELLIGENT CONTROL

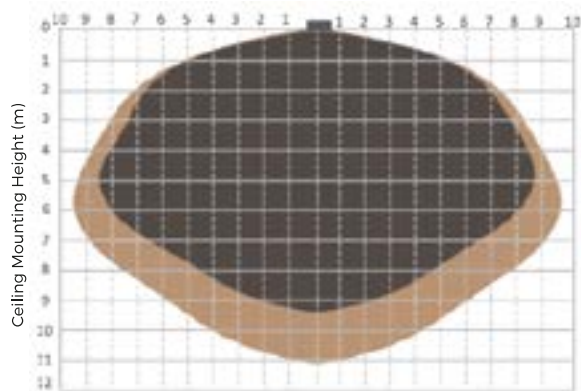
Microwave Sensor & Dimmer Option



Technical Data			
Operating Voltage	120-277V	Standby power	approx. 0.5W
Switched power	Max. capacitive load: 800W @277V, 400W@120V	Warm time	20s
Detection area	10/50/75/100%, can be customized	Sensor principle	Microwave motion detector
Hold time	5S/30S/1min/5min/10min/20min/30min, can be customized	Microwave frequency	5.8GHz+/-75MHz
Standby period	0s/10s/1min/5min/10min/30min/1h/+∞can be customized	Microwave power	<0.2mw
Standby dimming level	10%/20%/30%/50% can be customized	Detection range	Max. (φxH):18m x 10m
Daylight threshold	2~50lux daylight/twilight/darkness, can be customized		'# o ~ 150o
Operating temperature	-35°C ~ +70°	Mounting height	Max.10m
IP rating	IP 67 (mounting inside the lamp)		ETL, FCC

Detection Pattern

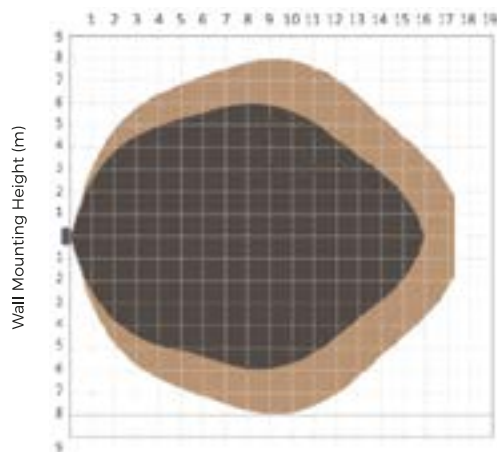
Ceiling Mounting Pattern (m)



■ Area of high sensitivity

■ Area of lower sensitivity

Wall Mounting Pattern (m)



■ Area of high sensitivity

■ Area of lower sensitivity

Setting

	Detection Area			Hold-time			Daylight Sensor			(Corridor function)							
	1	2		1	2	3	1	2		1	2	3	1	2			
I	●	●	100%	●	●	●	5s	●	●	Disable	●	●	●	0s	●	●	10%
II	●	○	75%	●	●	○	30s	●	○	50lux	●	●	○	10s	●	○	20%
III	○	●	50%	●	○	●	1min	○	●	10lux	●	○	●	1min	○	●	30%
IV	○	○	10%	●	○	○	5min	○	○	2lux	●	○	●	5min	○	○	50%
V				○	●	●	10min				○	●	●	10min			
VI				○	●	○	20min				○	●	○	30min			
VII				○	○	○	30min				○	○	●	1h			
VIII											○	○	○	+∞			

1. Detection area be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

2. Hold time means the time period you would like to keep the lamp on 100% after the person has left the detection area.

3. The daylight threshold can be set on DIP switches to fit for particular application.

4. This is the time period you would like to keep at the low light output level before it is completely switched off the long absence of people.

Note: 0 means on/off control; +∞ means 2 steps of dimming control, fixture never switch off.

5. This is the dimmed low light output level you would like to have after the hold-time in the absence of people.



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GUARDIAN HAZARDOUS LED LUMINAIRE

Explosion-Proof Floodlight

[EPL-C Series]

Up to 130
Lumens Per Watt

Harsh &
Hazardous Duty

L90 Value
100,000+ Hours

Crisp White
5000K

Powered By:  **CREE** 

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GUARDIAN Explosion-Proof Led Light (EPL-C Series)

Designed for durability & flexibility

Product Family Information

The GUARDIAN EPL-C Series LED Luminaire are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambient can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC and IEC.

NJZ-FEL-B Series are ideal for retrofit of existing HPS/MH and offer higher efficacy for increased energy savings, lower maintenance costs and shorter paybacks.

Design Features

- Best-in-class system efficacy - Up to 130 Lm / W
- Universal Voltage: AC 100~277V / 347~480V (50/60Hz)
- Instant illumination and restrike -no warm-up time required
- Wide ambient temp. range from - 40 C to + 60 C (-40 F ~ + 140 F)
- Safe and reliable heat transfer - Offering a T-rating of T6 (CI D1)
- Shock-and vibration-resistant -Durable LEDs with solder-less board connection
- Copper-free aluminum body and frame-corrosion resistant
- All exposed fasteners with quality stainless steel
- High Temperature silicone gasket
- Thermal shock and impact resistant glass lens
- Harsh & Hazardous Duty

Application

- Mining Sites / Heavy Industrials
- Storage Facility
- Paper mills / Wastewater Treatment Plants
- Loading Docks / Platforms / Ship yards
- Chemical Processing Facility
- Petrochemical Processing Facility

Compliance

NEC Standard

- Class I, Div. 1, Groups C, D
- Class I, Div. 2, Group A,B,C,D
- Class II, Div. 2, Groups F,G
- Class III
- Enclosed and gasket
- Wet Locations / Type 4X / IP 66 UL-
- 1598/8750 for LED Lighting UL-1598(A)
- UL-844 and CSA C22.2 for Hazardous locations
- DLC 4.0 Premium

IECEx Standard

- Zones 1 and 2 (Ex-Gas)
- Zones 21 and Zone 22 (Ex-Dust)
- IEC 60079-0 , IEC 60079-1
- Cert # Pending (Completion: Dec 2016)
- Ex d IIB T6 Gb
- Ex tb IIIC 85 °C Max Db



TECHNICAL PARAMETER

Guardian



Electrical	Power Consumption	80W	100W	150W
	Input Voltage	AC 100~277V / 200~480V		
	Power Frequency	50/60Hz		
	Power Factor	≥0.99		
	LED Driver Brand	Meanwell HLG / HVG		
Optical	LED Chip Brand	CREE XP-G3 (3535 Chips)		
	Luminous Flux(Lumen Output)	≥10000 Lm	≥13000 Lm	≥19000 Lm
	Beam Angle	25° / 60° / 120°		
	CCT	5000 K		
	TDH	Less than 10 %		
Environment	Operating Temperature	-40°C ~ +60°C / -40°F to 140°F		
	Operating Humidity	10%~90% RH		
	Max Operating Temp. Code	Class I Div. 1, Group C,D @ T6 Class I Div. 2, Group A, B, C, D @ T4A Class II Div. 2, Group F, G @ T4A		
Mechanical	Housing Material	Copper-Free Die-cast Aluminum		
	Lamp Glass	Tempered Glass		
	Mounting Options	Ceiling Type; Hanging Chain; Wall Type; Floor Type		
	I P & I K Rating	IP 66 / IK 08		
	Corrosion-proof Grade	1598A Outside Type - Salt Water		
	Inlet Thread	NPT 3/4		
	Cross Section Core	0.5~2.5 mm²		
	Mounting Height	6~15 M / 20 ~ 50 FT		
	Dimensions(L*W*H)	328*271*176mm/ 13.0*10.7*6.9 in		
	Net Weight	15 KG / 33 lbs		
Packing	Dimensions(L*W*H)	370 * 362 * 245mm/ 14.6 * 14.3 * 9.6in		
	Gross Weight	16 KG / 35 lbs		
Warranty	5-Year Standard Warranty			
	LED Lumen Maintenance: L90 @ 100,000 Operation Hours			

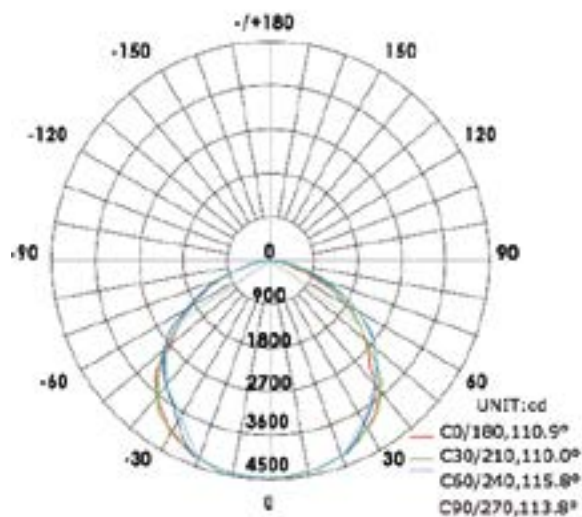


PHOTOMETRIC

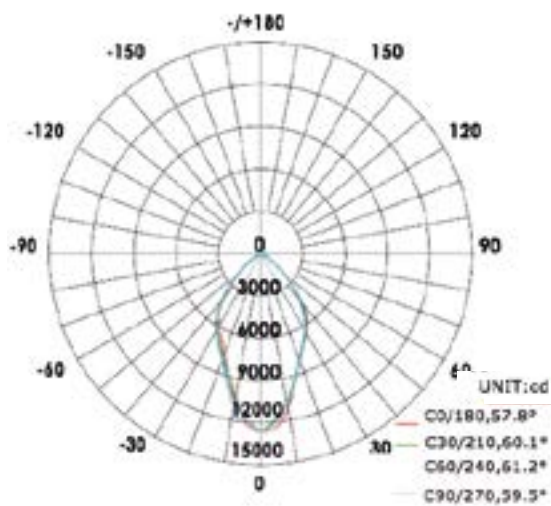
Lens selection by application

The Guardian EPL-C Series optical lens system enables LEDs to provide precise illumination where needed. Lenses are designed for Industrial & Hazardous applications where mounting height, fixture spacing & light levels help determine lens selection. Consult factory for specific project layouts. Ask manufacture for IES files.

Optics for Common Applications



Average Beam Angle (50%):120 DEG



Average Beam Angle (50%):60 DEG

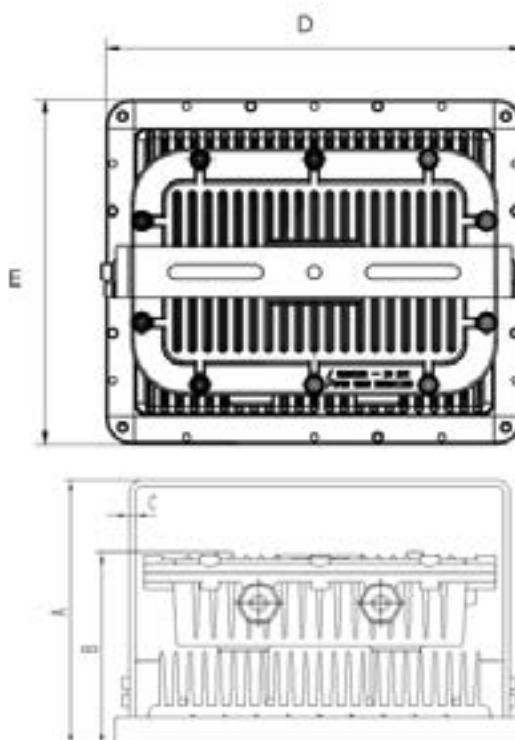
Dimension

Product Dimension (EPL-C-Series)

FEL-C 80W / 100W / 150W

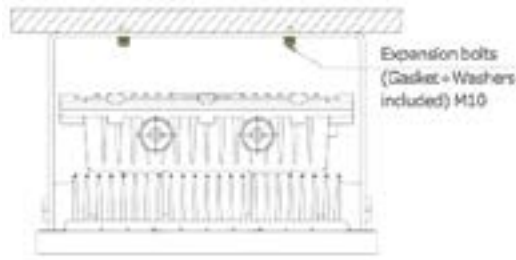
A	B	C	D	E
234	176	4	328	271

Measuring Unit : mm

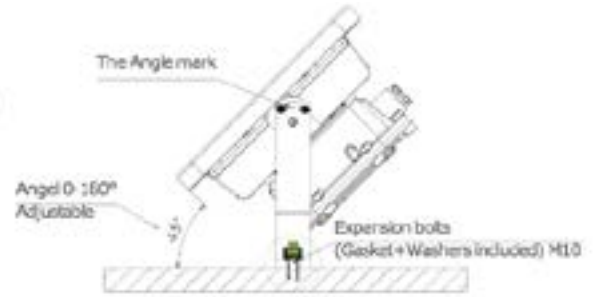


Mounting

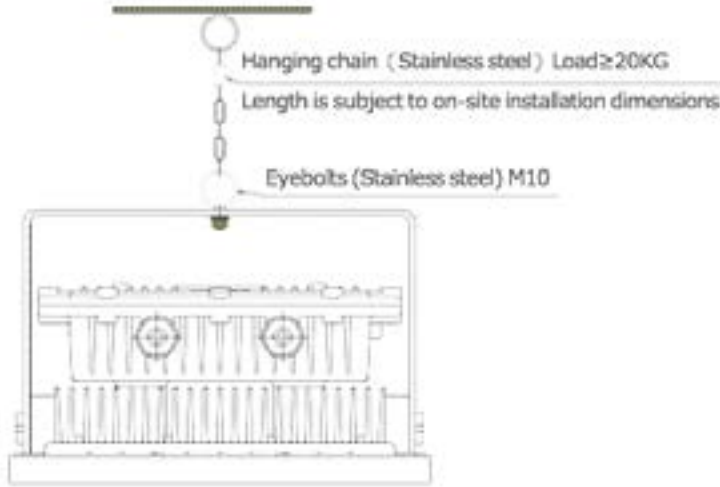
- Ceiling Type
- Hanging Chain
- Wall Type
- Floor Type



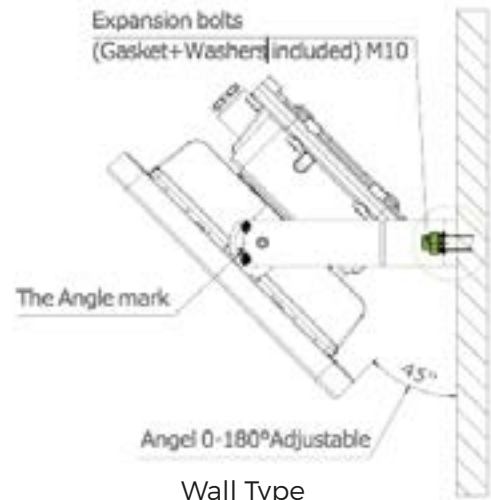
Ceiling Type



Floor Type



Hanging Chain



Wall Type

ORDERING INFORMATION-LED EXPLOSION-PROOF FLOODLIGHT

Ordering Example:

EPL-C - **150** - **V01** - **NW** - **120**

Series	Wattage	Voltage	Color Temp.	Beam Angle
SERIES EPL-C	WATTAGE 080 80W 100 100W 150 150W	VOLTAGE V01= AC 100-277V V04= AC 200-480V	COLOR TEMP. NW= 5000K (Neutral White) WH=4000K (Warm White)	BEAM ANGLE 25=25° 60=60° 120=120°

Note:
Please specify C1 D1 or C1 D2 for ordering as price varies .
Please consult factory if you have any demand in particular.