

# Defender™ HAZARDOUS LED Luminaire

LED Explosion-proof Floodlight  
( FEL-C Series )



- Up to 130 Lumens Per Watt
- Harsh & Hazardous Duty
- L90 Value 100,000+ Hours
- Crisp White 5000K

Powered By:





# Defender™ LED Explosion-proof Floodlight

( NJZ-FEL-C Series )

## DESIGNED FOR DURABILITY & FLEXIBILITY

### Product Family Information

The Defender™ NJZ-FEL-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-C 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 gasketing
- 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 / Shipyards
- 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 gasketed

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

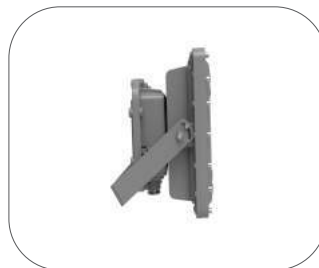
Cert # Pending ( Completion: Dec 2016 )

Ex d IIB T6 Gb

Ex tb IIIC 85 °C Max Db

# Technical Parameter

## Defender™



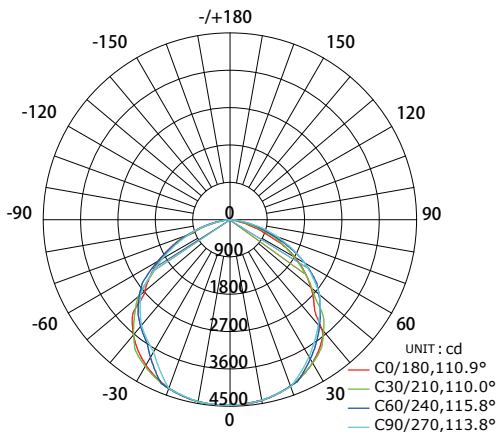
Electrical	Power Consumption	80W	100W	150W
	Input Voltage	AC 100~277V / 200~480V		
	Power Frequency	50/60Hz		
	Power Factor	≥0.95		
	LED Driver Brand	Meanwell HLG Series		
Optical	LED Chip Brand	Cree XP-G3		
	Luminous Flux(Lumen Output)	≥10000 Lm	≥13000 Lm	≥19000 Lm
	Beam Angle	25° / 60° / 120°		
	CCT	5000 K		
	THD	Less than 10 %		
Environment	Operating Temperature	-40oC ~ +60oC / -40°F to 140°F		
	Operating Humidity	10%~90% RH		
	Max Operatating 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		
	Cable's Spec	Φ12.5~20mm		
	Mounting Height	6~15 M / 20 ~ 50 FT		
	Dimensions(L*W*H)	335*280*164mm/ 13.2*11.0*6.5 in		
	Net Weight	14.6 KG / 32.1 lbs		
Packing	Dimensions(L*W*H)	370 * 362 * 233mm/ 14.6 * 14.3 * 9.2in		
	Gross Weight	16 KG / 35.2 lbs		
Warranty	5-Year Standard Warranty			
	LED Lumen Maintenance: L90 @ 100,000 Opreation Hours			

# Photometric

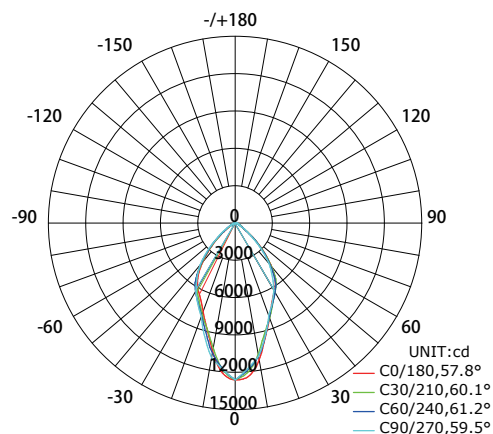
## Lens selection by application

The Defender™ NJZ-FEL-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

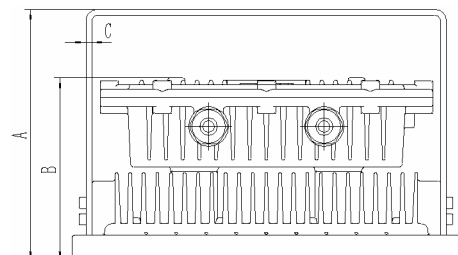
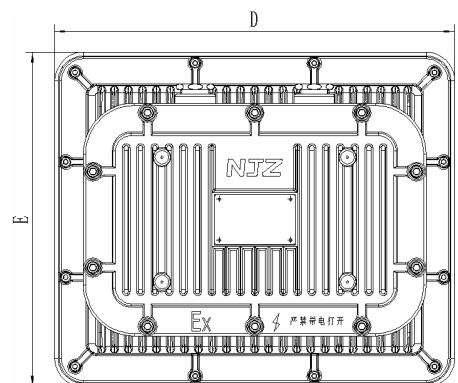
## Product Dimension

### NJZ-FEL-C-Series

#### • FEL-C 80W / 100W / 150W

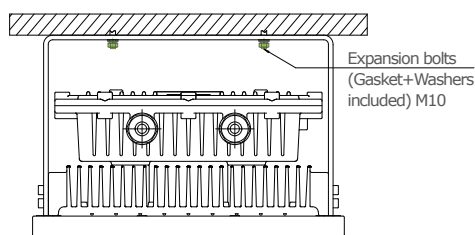
A	B	C	D	E
218	159	4	336	279

Measuring Unit : mm

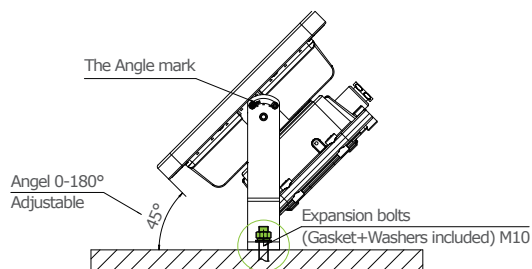


## Mounting

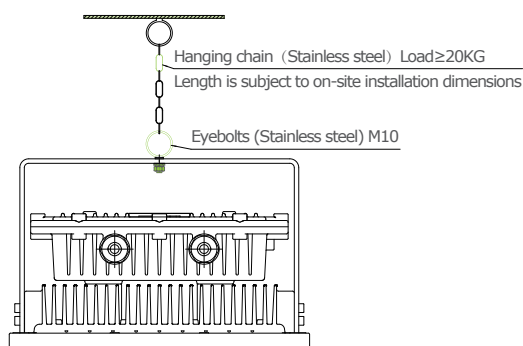
- Ceiling Type
- Hanging Chain
- Wall Type
- Floor Type



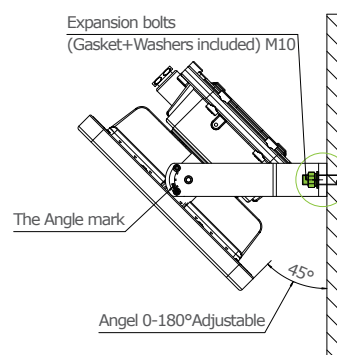
Ceiling Type



Floor Type



Hanging Chain



Wall Type

## Ordering Information- LED Explosion-proof Floodlight

### ORDERING EXAMPLE:

<b>FEL-C</b>	<b>150</b>	<b>v01</b>	<b>RZ</b>	<b>120</b>
Series	Wattage	Voltage	Color Temp.	Beam Angle
<u>SERIES</u> FEL-C	<u>WATTAGE</u> 80 80W 100 100W 150 150W	<u>VOLTAGE</u> V01= AC 100-277V V04= AC 200~480V	<u>COLOR TEMP.</u> RZ= 5000K ( Neutral White )	<u>BEAM ANGLE</u> 25=25° 60=60° 120=120°

#### Important Note :

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