Born for Industrial Safety



DefenderTM (NJZ-FEL-C Series)
Hazardous Location LED Luminaire



Defender™

Hazardous Location LED Luminaire

NJZ-FEL-C Series

Product description

The Defender™ NJZ-FEL-C Series LED Luminaire is 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.

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

Features

- Best-in-class system efficacy Up to 130 Lm / W
- Universal Voltage: AC120-277, 347-480V (50/60Hz)
- Instant illumination and restrike no warm-up time required
- Safe and reliable heat transfer Offering a T-rating of T6 (CID1)/T4A (CID2, CIID2)
- 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

Compliance

NEC/CEC Standard

UL844

Class I Division 1, Group C, D

Class I Division 2, Group A, B, C, D

Class II Division 2, Group F, G

Class III

UL1598A

CSA C22.2 No.137-M1981

CSA C22.2 No.30-M1986

CSA C22.2 No.25-1966

DLC Premium*

Not all product variations listed on this page are DLC qualified.* Visit www.designlights.org/search to confirm qualification.

FCC

IP66

IK09

5G

1000hrs salt spray

Application

Power Plants / Heavy Industrials Storage Facility / Paper mills Wastewater Treatment Plants Loading Docks / Platforms / Shipyards Chemical Processing Facility Petrochemical Processing Facility

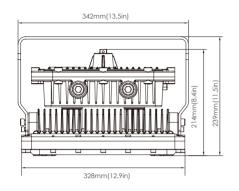
Warranty

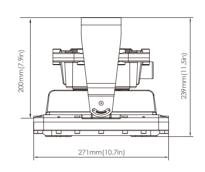
5-Year Standard Warranty LED lumen Maintenance: L70>170,000 Opreation Hours @ 60°C

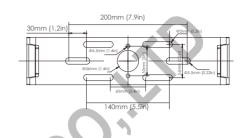


Defender™

Product Dimensions







Wall Type

Model	Net weight	Dimensions (L×W×H)	Gross weight	Dimensions (L×W×H)
NJZ-FEL-C-080	15.2kg/33.5lbs	328×271×176mm 12.9×10.7×6.9in	16.2kg/35.7lbs	412×372×270mm 16.2×14.6×10.6in
NJZ-FEL-C-100	15.3kg/33.7lbs		16.3kg/35.9lbs	
NJZ-FEL-C-150	15.5kg/34.2lbs		16.5kg/36.4lbs	

Mounting



With glare shield installed



Technical Parameter

Electrical

Specification		NJZ-FEL-C-080	NJZ-FEL-C-100	NJZ-FEL-C-150
Rated Power		80W	100W	150W
Input Voltage			AC120-277, 347-480V	
Input Frequency			50/60Hz	
Input Current	(AC120/277V)	0.63/0.29A	0.82/0.36A	1.7/0.54A
mpat carrent	(AC347/480V)	0.24/0.17A	0.29/0.21A	0.43/0.31A
Power Factor			≥0.95	
Driver Efficiency		≥90%		
Surge Protection		4kv		

Optical

Specification	NJZ-FEL-C-080	NJZ-FEL-C-100	NJZ-FEL-C-150
Lumen Output	10400Lm	13000Lm	19500Lm
Lumens Per Watt		130Lm/W	
Beam Angle		25°/60°/120°	
Correlated Color Temperature (CCT)		3000K/4000K/5000K	
Color Rendering Index (CRI)		Ra>70	

Environmental

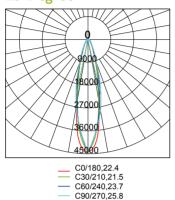
Specification	NJZ-FEL-C-080	NJZ-FEL-C-100	NJZ-FEL-C-150
Ambient Operating Humidity		$5\%\!\sim\!95\%RH$	
Ambient Operating Temperature	-4	0°C ~+60°C/-40°F~+140°	'F
Optimal Operating Temperature		25°C (77°F)	
T-Code	C	ID1: T6 CID2, CIID2: T4A	4

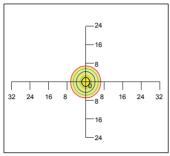
Mechanical

Specification	NJZ-FEL-C-080	NJZ-FEL-C-100	NJZ-FEL-C-150
Housing Material	Copper-free Aluminum		
Lens Material	Tempered glass(Diffused optional)		
Mounting Options	Pole, Ceiling, Wall, Pendant		
IP Rating	IP66		
IK Rating	IK09		

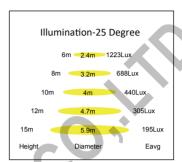
Photometric

25 Degree



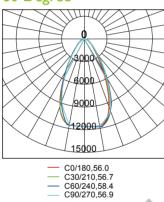


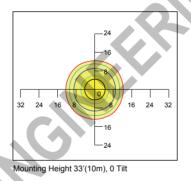
Mounting Height 33'(10m), 0 Tilt

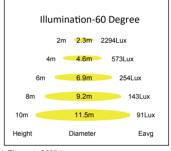


Flux out: 5727 lm

60 Degree

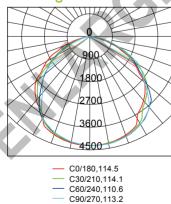


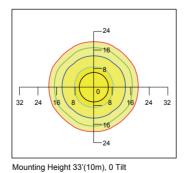


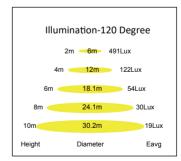


Flux out: 9609 lm

120 Degree







Flux out: 14639 lm

Ordering Information and Mounting Accessories



*: Suffix not within nomenclature as per Certification, for marketing purpose only

BRAND NJZ SERIES FEL-C **POWER**

080=80W 100=100W

150=150W

VOLTAGE

V01= AC120-277V

V04= AC347-480V

COLOR TEMP

RN= 3000K (Warm White) RL= 4000K (Neutral White)

RZ= 5000K (Neutral White)

BEAM ANGLE

25°=25° 60°=60° 120°=120° HAZLOC 1=CID1

26=CID2,CIID2

LENS

T=Transparent glass D=Diffuse glass MOUNT TYPE

P=NPT 3/4 pendant mount U=NPT 3/4 pendant+U-bracket

COLOR OF FINISH

GR=Gray BL=Black WT=White BZ=Bronze LED MANUFACTURER

0= CREE XPG-3

1= OSRAM OSLON SQUARE M2

ACCESSORIES

UB01=Stainless steel U-Bracket

UB03=Anti-vibration U-bracket

UB04=360Deg rotation U-bracket

SN01=Stanchion

SP01=10kv Surge Protector 100~277V

SP02=10kv Surge Protector 347~480V

WG01=Stainless Steel Wire guard

SC01=Stainless Steel Safety Cable kit

LS05=Glare Shield



UB01Ceiling/Wall Type
Stainless steel U-Bracket



UB03Anti-vibration
U-bracket



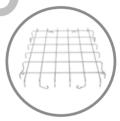
UB04 360Deg rotation U-bracket



SN01Pole Type Stanchion



SP01/SP0210KV Surge Protector



WG01 Stainless Steel Wire guard



SC01 Stainless Steel Safety Cable kit



LS05 Glare Shield Stainless Steel SUS304











Class I Locations

Class I locations are those in which inflammable gases or vapors are or may be present in sufficient quantities to produce explosive or flammable mixtures.

CLASS I, DIVISION 1

Class I, Division 1 locations are where hazardous atmosphere may be present during normal operations. It may be present continuously, intermittently, periodically or during normal repair or maintenance operations, or those areas where a breakdown in processing equipment releases hazardous vapors with the simultaneous failure of electrical equipment.

CLASS I, DIVISION 2

Class I, Division 2 locations are those in which volatile flammable liquids or gases are handled, processed or used. Normally they will be confined within closed containers or in closed systems from which they can escape only in the case of rupture or deterioration of the containers or systems.

Class II Locations

Class II locations are those that are hazardous because of the presence of combustible dust.

CLASS II, DIVISION 1

Class II, Division 1 locations include areas where combustible dust may be in suspension in the air under normal conditions in sufficient quantities to produce explosive or ignitable mixtures (Dust may be emitted into the air continuously, intermittently or periodically), or where failure or malfunction of equipment might cause a hazardous location to exist and provide an ignition source with the simultaneous failure of electrical equipment, included also are locations in which combustible dust of an electrically conductive nature may be present.

CLASS II, DIVISION 2

Class II, Division 2 locations are those in which combustible dust will not normally be in suspension nor will normal operations put dust in suspension, but where accumulation of dust may interfere with heat dissipation from electrical equipment or where accumulations near electrical equipment may be ignited.

Class III Locations

Class III locations are those considered hazardous due to the presence of easily ignitable fibers of flyings, which are in quantities sufficient to produce ignitable mixtures.

CLASS III, DIVISION 1

Locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used.

CLASS III. DIVISION 2

Locations where easily ignitable fibers are stored or handled.