

**Born for Industrial Safety**

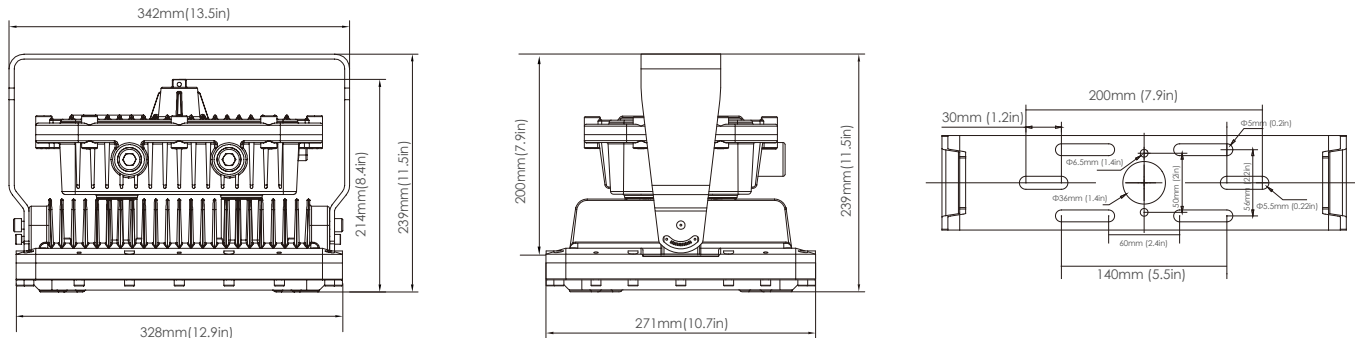


**Defender™** (NJZ-FEL-C Series)  
Hazardous Location LED Luminaire





### Product Dimensions

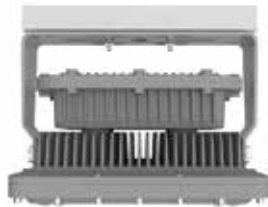


Model	Net weight	Dimensions (L×W×H)	Gross weight	Dimensions (L×W×H)
<b>NJZ-FEL-C-080</b>	15.2kg/33.5lbs	328×271×176mm 12.9×10.7×6.9in	16.2kg/35.7lbs	412×372×270mm 16.2×14.6×10.6in
<b>NJZ-FEL-C-100</b>	15.3kg/33.7lbs		16.3kg/35.9lbs	
<b>NJZ-FEL-C-150</b>	15.5kg/34.2lbs		16.5kg/36.4lbs	

### Mounting



Pole Type



Ceiling Type



Wall Type



Pendant



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
	(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

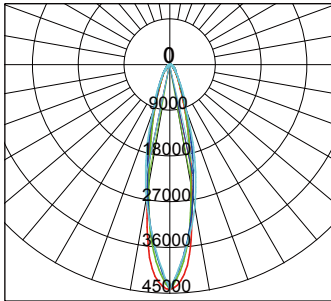
Specification	NJZ-FEL-C-080	NJZ-FEL-C-100	NJZ-FEL-C-150
Ambient Operating Humidity	5%~95% RH		
Ambient Operating Temperature	-40°C ~+60°C/-40°F~+140°F		
Optimal Operating Temperature	25°C (77°F)		
T-Code	CID1: T6 CID2, CIID2: T4A		

#### Mechanical

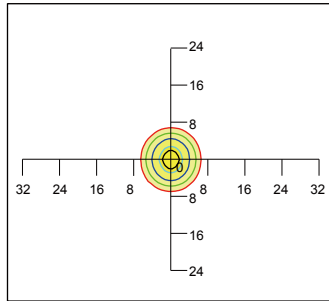
Specification	NJZ-FEL-C-080	NJZ-FEL-C-100	NJZ-FEL-C-150
Housing Material	Copper-free Aluminum		
Lens Material	Tempered glass(Diffused optional)		
Mounting Options	Pole, Ceiling,Wall, Pendant		
IP Rating	IP66		
IK Rating	IK09		

### Photometric

#### 25 Degree



- C0/180,22.4
- C30/210,21.5
- C60/240,23.7
- C90/270,25.8

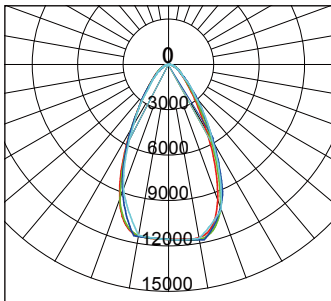


Mounting Height 33'(10m), 0 Tilt

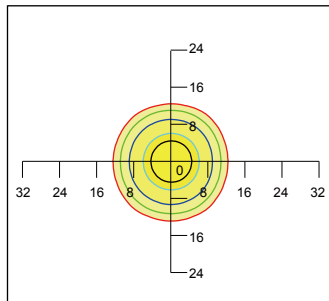
Height	Diameter	Eavg
6m	2.4m	1223Lux
8m	3.2m	688Lux
10m	4m	440Lux
12m	4.7m	305Lux
15m	5.9m	195Lux

Flux out: 5727 lm

#### 60 Degree



- C0/180,56.0
- C30/210,56.7
- C60/240,58.4
- C90/270,56.9

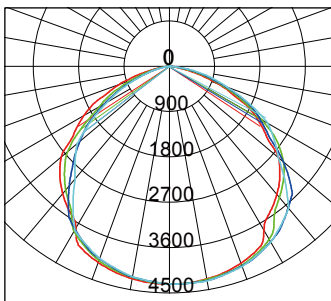


Mounting Height 33'(10m), 0 Tilt

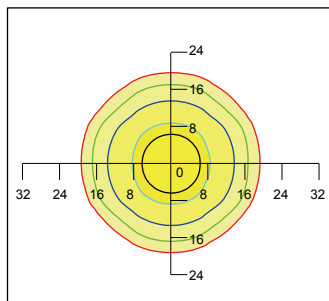
Height	Diameter	Eavg
2m	2.3m	2294Lux
4m	4.6m	573Lux
6m	6.9m	254Lux
8m	9.2m	143Lux
10m	11.5m	91Lux

Flux out: 9609 lm

#### 120 Degree



- C0/180,114.5
- C30/210,114.1
- C60/240,110.6
- C90/270,113.2

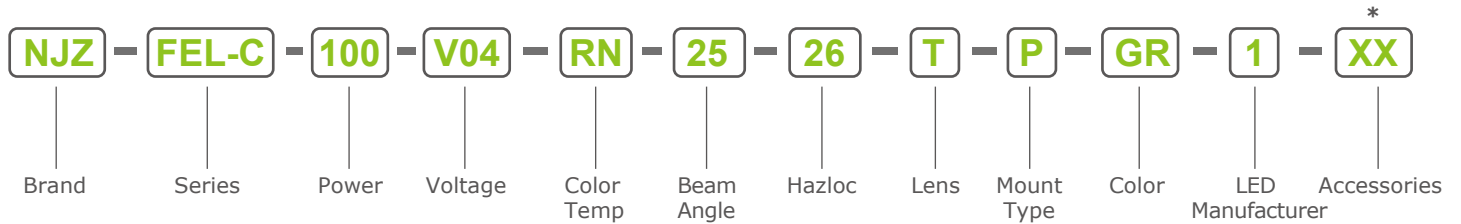


Mounting Height 33'(10m), 0 Tilt

Height	Diameter	Eavg
2m	6m	491Lux
4m	12m	122Lux
6m	18.1m	54Lux
8m	24.1m	30Lux
10m	30.2m	19Lux

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

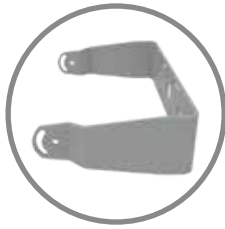
GR=Gray  
BL=Black  
WT=White  
BZ=Bronze

### LED MANUFACTURER

0= CREE XPG-3  
1= OSRAM OSOLON 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



**UB01**  
Ceiling/Wall Type  
Stainless steel U-Bracket



**UB03**  
Anti-vibration  
U-bracket



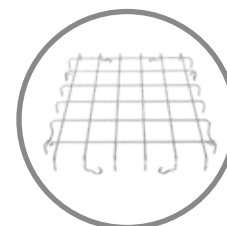
**UB04**  
360Deg rotation  
U-bracket



**SN01**  
Pole Type  
Stanchion



**SP01/SP02**  
10KV Surge Protector



**WG01**  
Stainless Steel  
Wire guard



**SC01**  
Stainless Steel  
Safety Cable kit



**LS05**  
Glare Shield  
Stainless Steel SUS304



Not all product variations listed on this page are DLC qualified.\*  
Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualification.

### 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 or 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.