

Born for Industrial Safety



Ranger™ (NJZ-FEL-E Series)
Hazardous Location LED Luminaire



2020-02-10 V1.0 EN

Ranger™

Hazardous Location LED Luminaire

NJZ-FEL-E Series



Product description

The Ranger NJZ-FEL-E Series LED Luminaire is designed for installations where moisture, dirt, corrosion and vibration may be present. They can be used in locations made hazardous by the presence of flammable vapors or gases as defined by the NEC.

NJZ-FEL-E 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 137 Lm / W
- Universal Voltage: AC120-277V, AC347-480V (50/60Hz)
- Wide ambient temp. range from - 40°C to + 50 °C (-40°F ~ + 122°F)
- Safe and reliable heat transfer - Offering a T-rating of T3C (CID2) / T4A (CIID1)
- Instant on/off operation
- Shock-and vibration-resistant - Durable LEDs with solder-less board connection
- Copper-free aluminum body and corrosion resistant
- All exposed fasteners with quality stainless steel
- Thermal shock and impact resistant PC lens
- Slim and compact design

Compliance

NEC/CEC Standard

UL844 & CSA C22.2 No. 137-M1981

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

Class II Division 1, Group E, F, G

Class III, Division 1

UL 1598A Marine (Salt Water)

UL 1598 Wet Locations

UL 8750 LED Safety

DLC*

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

FCC

IP66

IK08

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

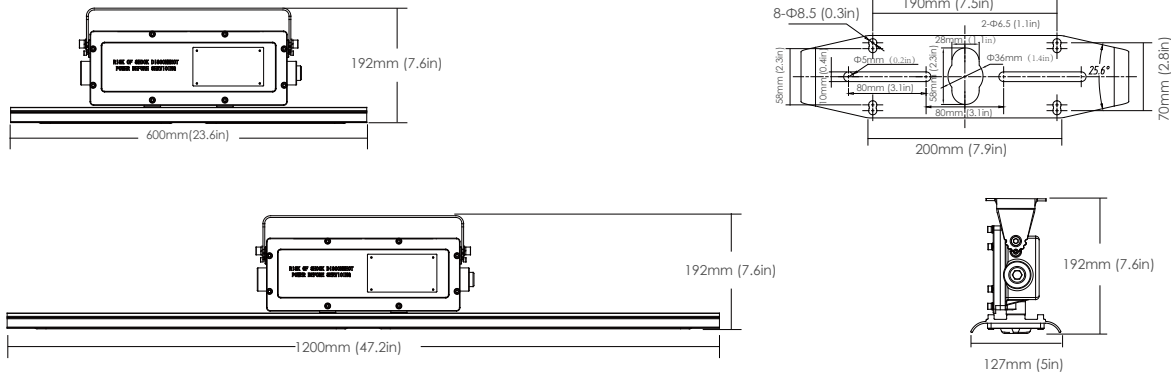
5-Year Standard Warranty

LED lumen Maintenance:

L70 > 120,000 Operation Hours @ 50°C

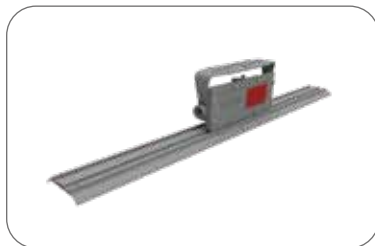


Product Dimensions

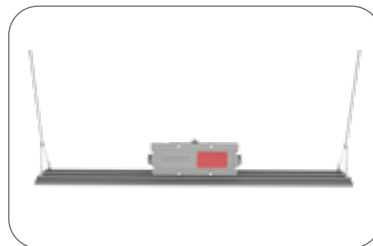


Model	Net weight	Dimensions (L×W×H)	Gross weight	Dimensions (L×W×H)
NJZ-FEL-E-40	5.5kg/12.1lbs	600×127×192 mm 23.6×5.0×7.6in	6.2kg/13.6lbs	675×180×230 mm 26.6×7.1×9.1in
NJZ-FEL-E-80	7.6kg/16.7lbs	1200×127×192 mm 47.2×5.0×7.6in	8.7kg/19.1lbs	1275×180×230 mm 50.2×7.1×9.1in

Mounting



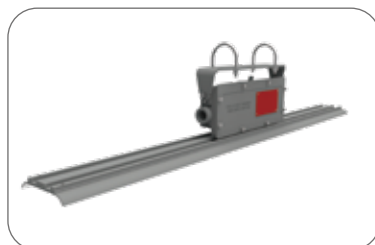
Ceiling&Wall



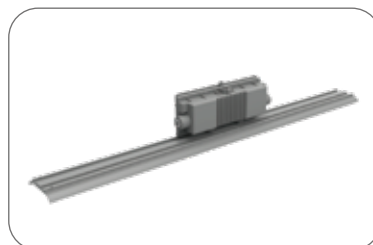
Hanging Mount-A



Hanging Mount-B



Stanchion



Pendant



with glare shield installed

Technical Parameter

Electrical

Specification		NJZ-FEL-E-40	NJZ-FEL-E-80
Rated Power		40W	80W
Input Voltage		AC120-277V, AC347-480V	
Input Frequency		50/60Hz	
Input Current	(AC120/277V)	0.34/0.16A	0.67/0.32A
	(AC347/480V)	0.13/0.09A	0.25/0.18A
Power Factor		≥0.95	
Driver Efficiency		≥90%	

Optical

Specification		NJZ-FEL-E-40	NJZ-FEL-E-80
Lumen Output		5480Lm	10960Lm
Lumens Per Watt		137Lm/W	
Beam Angle		110°	
Correlated Color Temperature (CCT)		3000K/4000K/5000K	
Color Rendering Index (CRI)		Ra>70	

Environmental

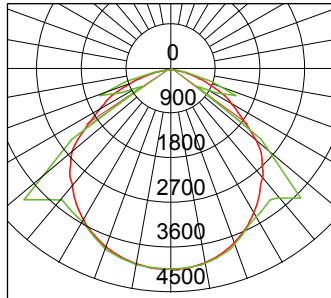
Specification		NJZ-FEL-E-40	NJZ-FEL-E-80
Ambient Operating Humidity		5%~95% RH	
Ambient Operating Temperature		-40°C ~+50°C/-40°F~+122°F	
Optimal Operating Temperature		25°C (77°F)	
T-Code		Class I Div2: T3C	Class II Div1 : T4A

Mechanical

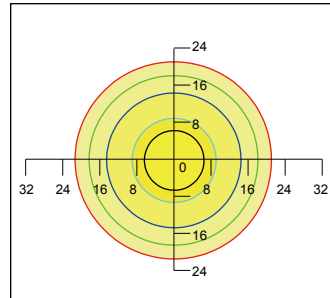
Specification		NJZ-FEL-E-40	NJZ-FEL-E-80
Housing Material		Copper-free Aluminum	
Lens Material		Polycarbonate	
Mounting Options		Ceiling, Wall, Stanchion, Hanging Mount, Pendant	
IP Rating		IP66	
IK Rating		IK08	

Photometric

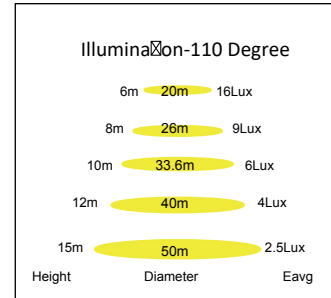
110 Degree



— V 0.0DEG PLAN, 112.1
— H 0.0DEG PLAN, 109.1



Mounting Height 33'(10m), 0 Tilt



Flux out: 5253 lm

Ordering Information and Mounting Accessories



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

BRAND

NJZ

SERIES

FEL-E

POWER

40=40W
80=80W

VOLTAGE

V01= AC 120-277V
V04= AC 347-480V

COLOR TEMP

RN=3000K (Warm White)
RL=4000K (Neutral White)
RZ=5000K (Neutral White)

BEAM ANGLE

110=110°

HAZLOC

25=CID2, CIID1

LENS

T=Transparent PC
F=Diffuse PC

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

ACCESSORIES

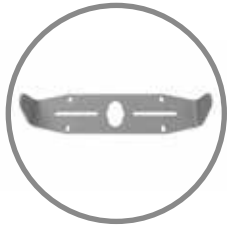
UB02=Stainless steel U-Bracket
HC01=Hanging Chain
HK04=Hanging Ring
LS06=Glare Shield
PC01=Pipe clamp one pair (M8*48mm) for Round pole φ 1 7/8" (48mm)
PC02=Pipe clamp one pair (M8*60mm) for Round pole φ 2 3/8" (60mm)
SC02=Stainless Steel Safety Cable kit
CA01=3' SJTOW-18/3 Cord (Factory installed)
CA-X=Cable, order upon request
SP03=10kv Surge Protector 100~277V



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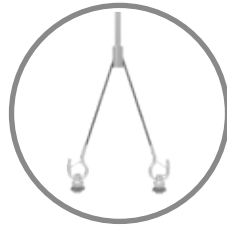
Tel: +86-25-52397600-8816 | Email: inquiry@njztech.com | Web: www.njzlighting.com

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UB02

Ceiling/Wall mount
Stainless steel U-Bracket



HC01

Hanging Mount-A
Hanging Chain



HK04

Hanging Mount-B
Hanging Ring
M10 Eyebolt SUS316



PC01/PC02

Stanchion mount
Pipe clamp



LS06

Glare Shield
Stainless Steel SUS304



SC02

Stainless Steel
Safety Cable kit



CA01

3' SJTOW-18/3 Cord
(Factory installed)

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.