Born for Industrial Safety

Warrior™ (NJZ-FEL-D Series)

Hazardous Location LED Luminaire

NJZ LIGHTING

2020-02-10 V1.0 EN

Warrior™

Hazardous Location LED Luminaire

NJZ-FEL-D Series

Product description

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

Features

- High luminous efficacy-Up to 150 Lm/W
- Input Voltage: AC120-277V， AC347-480V (50/60Hz)
- Instant illumination and restrike-no warm-up time required
- Safe and reliable heat transfer-Offering a T-rating of T4A (CID2) / T5 (CIID1)
- Shock and vibration resistant-Durable LEDs with solderless board connection
- Die-cast aluminum body and frame-corrosion resistant
- All exposed fasteners with quality stainless steel
- High Temperature silicone gasketing
- Thermal shock and impact resistant tempered glass
- Light weight and compact design

Compliance

NEC/CEC Standard

UL844
Class I Division 2, Group A, B, C, D
Class II Division 1, Group E, F, G
Class II Division 2, Group F, G
Class III, Division 1
Simutaneous Presence
UL 1598A Marine Outside Type
UL 1598 Wet Locations
UL 8750 LED Safety

CSA C22.2 No. 250.0-08, 250.13
FCC / IP66 / IK08 / IK07 (Drop Lens)
5G / 1000hrs salt spray

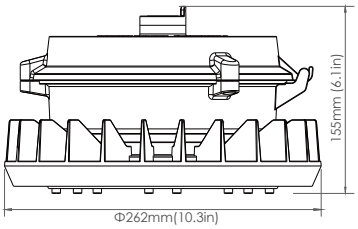
Application

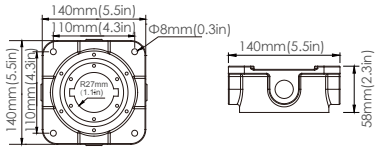
Power Plants / Heavy IndustrialsStorage Facility / Paper mills Wastewater Treatment Plants Loading Docks / Platforms / Shipyards Chemical Processing Facility Petrochemical Processing Facility

Warranty

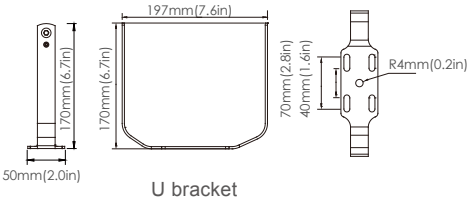
5-Year Standard Warranty
LED lumen Maintenance:
L70＞150,000 Opreation Hours @55°C

Product Dimensions

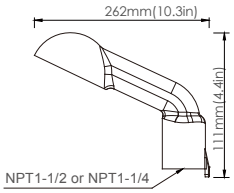




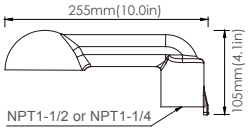
Ceiling mount



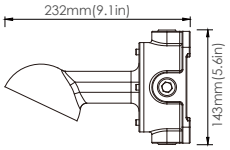
U bracket



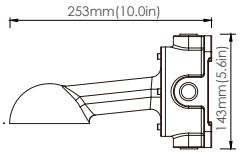
Stanchion 25°



Stanchion 90°



Wall 25°



Wall 90°

Model	Net weight	Dimensions (L×W×H)	Gross weight	Dimensions (L×W×H)
NJZ-FEL-D-45	4.2kg/9.26lbs	Φ260×150 mm 10.2×5.9in	4.9kg/10.8lbs	340×310×205 mm 13.4×12.2×8.1in
NJZ-FEL-D-65				

Multi-mount To

Pendant Top

Multi-mount Top

Ceiling Mount

Bracket

Stanchion 25°

Stanchion 90°

Wall 25°

Wall 90°

Drop Lens

With glare shield installed-25°

With glare shield installed-90°

Technical Parameter

Electrical

Specification		NJZ-FEL-D-45	NJZ-FEL-D-65	NJZ-FEL-D-40	NJZ-FEL-D-60
Rated Power		45W	65W	40W	60W
Input Voltage		AC120-277V		AC347-480V	
Input Frequency		50/60Hz			
Power Factor		≥0.95			
Driver Efficiency		≥90%			
Input Current	(AC100-277V)	0.35/0.15A		0.54/0.24A	
	(AC347-480V)	0.14/0.08A		0.13/0.09A	

Optical

Specification	NJZ-FEL-D-45	NJZ-FEL-D-65	NJZ-FEL-D-40	NJZ-FEL-D-60
Lumen Output	6750Lm-9750Lm			
Lumens Per Watt	150Lm/W (130Lm/W for Drop lens)			
Beam Angle	110° (130° for Drop lens)			
Correlated Color Temperature (CCT)	3000K/4000K/5000K			
Color Rendering Index (CRI)	Ra>70			

Environmental

Specification		NJZ-FEL-D-45	NJZ-FEL-D-65	NJZ-FEL-D-40	NJZ-FEL-D-60
Ambient Operating Temperature		-40°C ～+55°C/-40°F～+131°F			-40°C ～+52°C/-40°F～+126°F
T-code	C1D2	T4A	T4A	T5	T4A
	C2D1	T5			

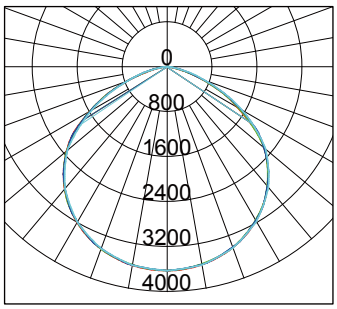
Mechanical

Specification	NJZ-FEL-D-45	NJZ-FEL-D-65	NJZ-FEL-D-40	NJZ-FEL-D-60
Housing Material	Copper-free Aluminum			
Lens Material	Tempered glass			
Mounting Options	Ceiling, Wall, Pole, Bracket, Pendant			
IP Rating	IP66			
IK Rating	IK08*			

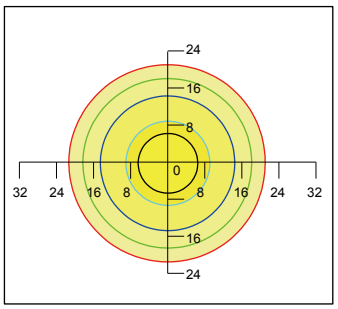
* Flat glass lens only

Photometric

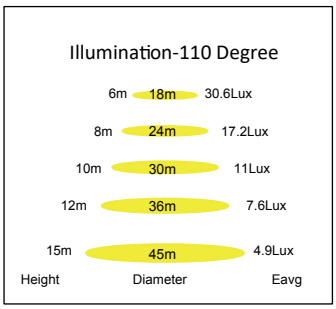
110 Degree



C0/180,113.0°
C30/210,112.9°
C60/240,113.6°
C90/270,112.9°

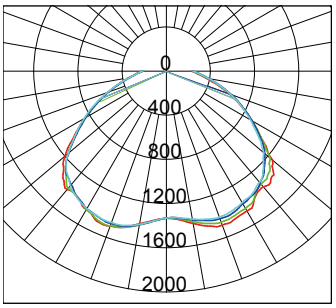


Mounting Height 33'(10m), 0 Tilt



Flux out: 7901 lm

130 Degree for drop lens



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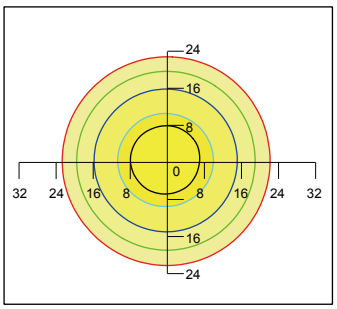
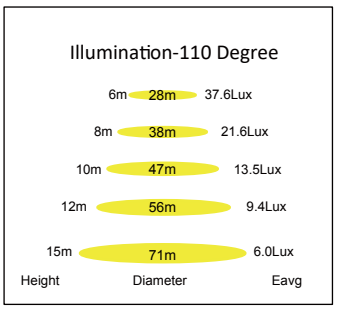
C30/210,134.4
C60/240,134.9
C90/270,135.0



Mounting Height 33'(10m), 0 Tilt



Flux out: 4586 lm

Ordering Information and Mounting Accessories

NJZ	FEL-D	45	V04	RL	110	25	T	P	GR	XX*
Factory code	Model Series	Wattage	Voltage	Color Temp	Beam Angle	Hazloc	Lens	Mount type	Color of enclosure	Accessories

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

SERIES
FEL-D

WATTAGE
45=45W
65=65W
40=40W
60=60W

Note: 45W & 65W when operating @ 120-277
40W & 60W when operating @ 347-480

VOLTAGE
V01= 100-240/277 Vac
VO4= 347-480 Vac

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

BEAM ANGLE
110=110°(Flat Glass)
130=130° (Glass Globe)

HAZLOC
25=CID2,CIID1

LENS
T=Transparent glass
D=Diffuse flat glass
DL01=Drop glass globe

MOUNT TYPE
P= NPT 3/4"pendant mount
U= Bracket
F=Multi-mount
(Ceiling/Stanchion/Wall)

COLOR OF ENCLOSURE
GR = "gray" (Standard)
BL= "black"
WT= "white"
BZ = "bronze"

ACCESSORIES
JB01=Junction Box NPT 3/4"
PB01= U-Bracket (SUS 304)
WL25=Wall mount-25°
WL90=Wall mount-90°
SN2501=Stanchion-25°(NPT 1.25")
SN2502=Stanchion-25°(NPT 1.50")
SN9001=Stanchion-90°(NPT 1.25")
SN9002=Stanchion-90°(NPT 1.50")
WG02=Stainless Steel Wire guard for Flat Lens
WG03=Stainless Steel Wire guard for Drop Lens
SC03=Stainless Steel Safety Cable kit
CA01=3' SJTOW-18/3 Cord (Factory installed)
CA-X=Cable, order upon request
DL01=Drop Lens
LS03=Glare Shield -25°
LS04=Glare Shield -90°
SP01=10kv Surge Protector 100~277V
SP02=10kv Surge Protector 347~480V

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

JB01
Ceiling
Junction Box NPT 3/4"
Grey Painted A356 Aluminum AL

PB01
Wall/Pipe
U-Bracket (SUS 304)
Stainless steel bracket

WL25
Wall mount-25°
NPT 3/4" Grey Painted
A356 Aluminum AL

WL90
Wall mount-90°
NPT 3/4" Grey Painted
A356 Aluminum AL

SN2501
Stanchion-25°,
NPT 1.25"(1.660"Pole OD)
slip-fit stanchion mount

SN2502
Stanchion-25°,
NPT 1.50"(1.900"Pole OD)
slip-fit stanchion mount

SN9001
Stanchion-90°,
NPT 1.25"(1.660"Pole OD)
slip-fit stanchion mount

SN9002
Stanchion-90°,
NPT 1.50"(1.900"Pole OD)
slip-fit stanchion mount

WG02
Stainless Steel
Wire guard

WG03
Stainless Steel
Wire guard

SC03
Stainless Steel
Safety Cable kit

CA01
3' SJTOW-18/3 Cord
(Factory installed)

DL01
Drop Lens
Tempered Glass

LS03
Glare Shield-25°
Aluminium alloy

LS04
Glare Shield-90°
Aluminium alloy

SP01/SP02
10KV Surge Protector

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.