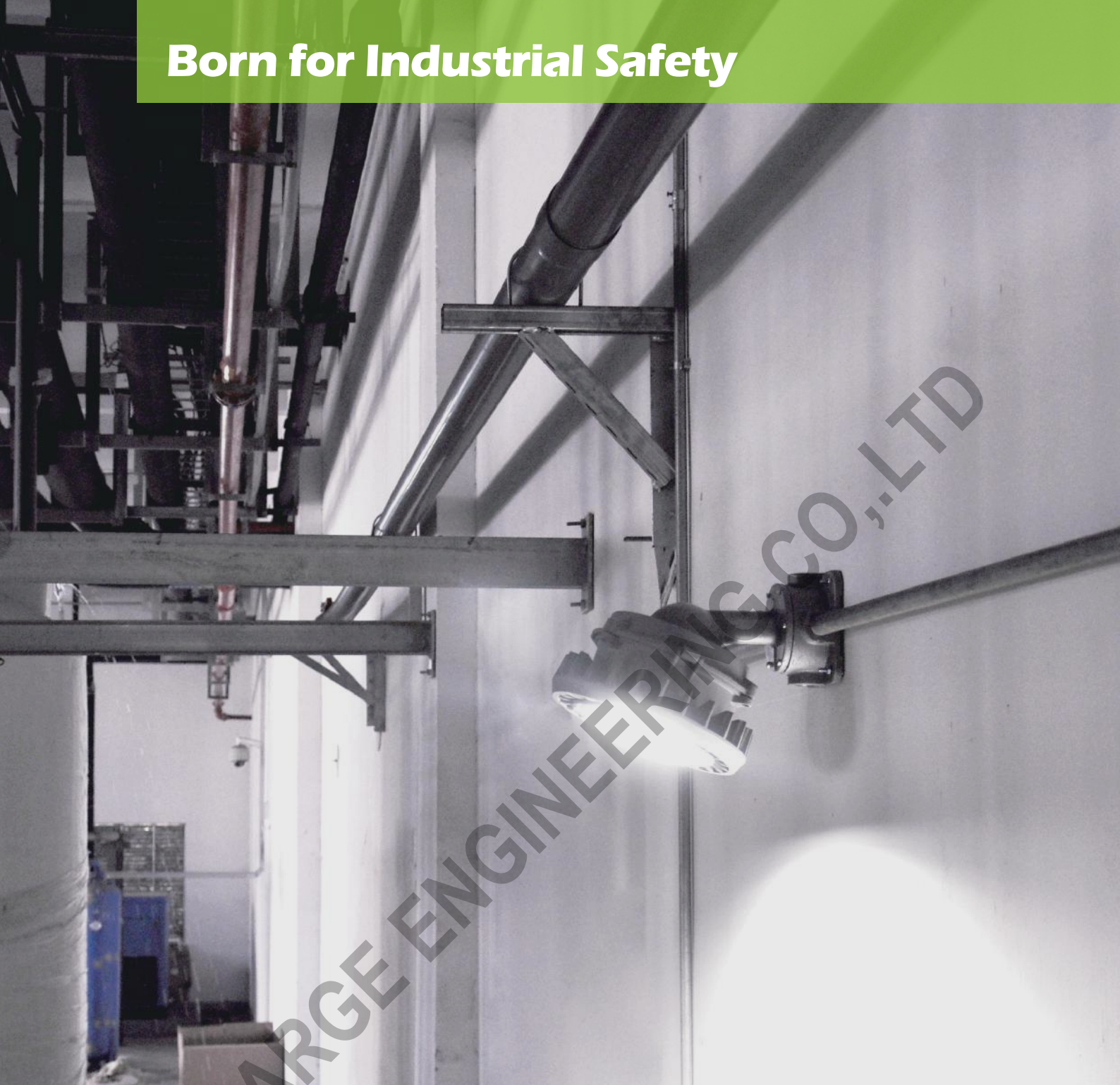


**Born for Industrial Safety**



**Warrior™** (NJZ-FEL-D Series)

**Hazardous Location LED Luminaire**



Specsheet-2021-09A 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: AC120-277,347-480V (50/60Hz)
- Instant illumination and restrike-no warm-up time required
- Safe and reliable heat transfer-Offering a T-rating of T4A (CID2) / T5 (CID1)
- 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

Class I, Zone 2, Group IIC

Zone 21, Group IIIC

Simultaneous Presence

UL 1598 Wet Locations

UL 1598A Marine Outside Type (Salt Water)

CSA C22.2 No. 137

CSA C22.2 NO. 250.0

FCC

IP66

IK08/IK07(Drop Lens)

5G vibration

1000hrs salt spray

## Application

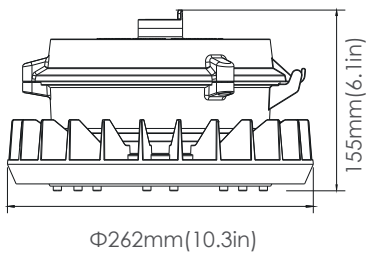
- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Shipyards
- Chemical Processing Facility
- Petrochemical Processing Facility

## Warranty

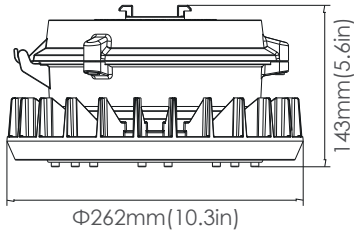
5-Year Standard Warranty

LED lumen Maintenance: L70>150,000 Operation Hours@55°C

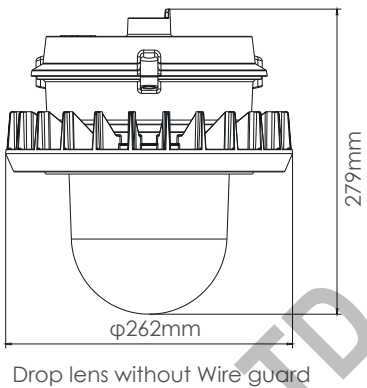
Product Dimensions



ADAPTER P



ADAPTER F



Drop lens without Wire guard

Unit:mm

Model	Net weight	Dimensions (L×W×H)	Gross weight	Dimensions (L×W×H)
NJZ-FEL-D (Flat glass)	4.2kg/9.3lbs	Φ262×155mm Φ10.3×6.1in	4.9kg/10.8lbs	323×295×220mm
NJZ-FEL-D (Drop glass)	4.8kg/10.6lbs	Φ262×279mm Φ10.3×11in	5.6kg/12.3lbs	323×295×360mm

Mounting



Pendant Top



Bracket



Safety cable installed



Multi-mount Top



Ceiling Mount



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		AC120-277		AC347-480	
Input Frequency		50/60Hz			
Input Current	(AC120/277V)	0.35/0.15A	0.54/0.24A		
	(AC347/480V)			0.12/0.08A	0.18/0.13A
Power Factor		≥0.9			
Driver Efficiency		≥90%			
Surge Protection		4Kv			

### 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			

\*value calculated based on 5000K ,varies to different spec

### 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	CID2	T4A	T4A	T5
	CIID1	T5		

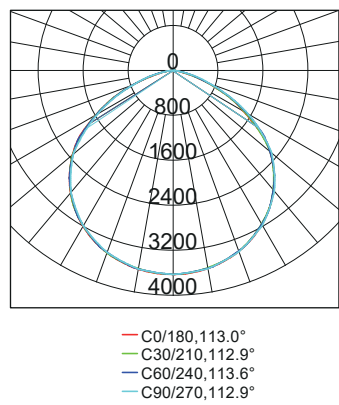
### Mechanical

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			
Hardware	Stainless steel 316			
Color	Dark Grey (RAL7037)			
Finish	Polyster powder coating for uniform corrosion resistance			
Protection	IP66/IK08*/5G vibration/1000hrs salt spray			
Mounting	Pendant, Bracket, Ceiling, Pole, Wall			
Installation	MIN 90°C SUPPLY CONDUCTORS			
Cable entries	1 x NPT3/4 (one at pendant top)			
Termination	3 x WAGO 221-413 (max. 4 mm²,3-conductor,with levers)			

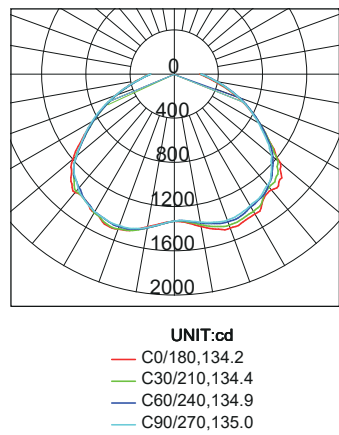
\*Flat glass lens only/IK07(Drop Lens)

Photometric

I10 Degree



I30 Degree for drop lens





### Ordering Information and Mounting Accessories

<b>NJZ</b>	<b>FEL-D</b>	<b>45</b>	<b>V04</b>	<b>RL</b>	<b>110</b>	<b>25</b>	<b>T</b>	<b>P</b>	<b>GR</b>	<b>*XX</b>
Brand	Series	Wattage	Voltage	Color Temp	Beam Angle	Hazloc	Lens Type	Mount Type	Color	Accessories

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

BRAND	SERIES	WATTAGE	VOLTAGE	COLOR TEMP
NJZ	FEL-D	45=45W 65=65W 40=40W 60=60W Note: 45W & 65W when operating @120-277 40W & 60W when operating @347-480	V01= AC100-240/277V V04= AC347-480V	RN= 3000K (Warm White) RL= 4000K (Neutral White) RZ= 5000K (Neutral White)
BEAM ANGLE	HAZLOC	LENS TYPE	MOUNT TYPE	
110=110°(Flat Glass) 130=130° (Glass Globe)	25=CID2,CIID1	T=Transparent glass D=Diffuse flat glass DL01=Drop glass globe	P=NPT 3/4 pendant mount U=Bracket F=Multi-mount (Ceiling/Stanchion/Wall)	
COLOR OF FINISH	ACCESSORIES	INSTALLATION TIPS		
GR=Gray(Standard) BL=Black WT=White BZ=Bronze	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 SC04=Stainless Steel Safety Cable CA01=3' SEOWW-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 for 100-277V SP02=10kv Surge Protector for 347-480V	<b>1. Termination</b> 3x WAGO 3-conductor for L, N, G connection Conductor range: 0,2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG Rated voltage UL: 600 V Rated current UL: 20A  <b>2.Cable Entries</b> 3/4" NPT (Top x1 open )  <b>3.Dimming</b> Unavailable		



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



### SC04

Stainless Steel  
Safety Cable



### CA01

3' SEOWW-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 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.