Born for Industrial Safety

Hammer™ (NJZ-FEL-H Series)

Hazardous Location LED Luminaire

NJZ LIGHTING

Specsheet-2021-09A EN

Hammer™

Hazardous Location LED Luminaire

NJZ-FEL-H Series

CID1 Model

CID2 Model

Product description

The Hammer™ NJZ-FEL-H 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 and IEC.

NJZ-FEL-H 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 150Lm/W
- Universal Voltage：AC120-277,347-480V (50/60Hz)
- Instant illumination and restrike-no warm-up time required
- Ambient range -40°C-+65°C（-40°F~+149°F）
- Safe and reliable heat transfer - Offering a T-rating of T6 (CID1) / T4A (C1D2) / T6 (CII D1)
- Shock-and vibration-resistant - Durable LEDs with solder-less board connection
- Anti-corrosion housing tested 1000hrs to standard ASTM"B117-11"
- All exposed fasteners with quality stainless steel 316
- High Temperature silicone gasketing
- Thermal shock and impact resistant tempered glass lens for CID1,PC Lens for CID2 models
- Harsh & Hazardous Duty

Compliance

NEC/CEC Standard

UL844
Class I Division 1, Group B, C, D* glass lens only
Class I Division 2, Group A, B, C, D
Class II Division 1, Group E, F, G
Class III
Class I, Zone 1, Group IIB+H2
Class I, Zone 2, Group IIC
Zone 21, Group IIIC
UL 1598 Wet Locations
UL 1598A Marine Outside Type (Salt Water)

CSA C22.2 No.137
CSA C22.2 NO. 250.0

FCC
IP66& IP67
IK10 (PC) / IK08 (Glass)
5G vibration
1000hrs salt spray

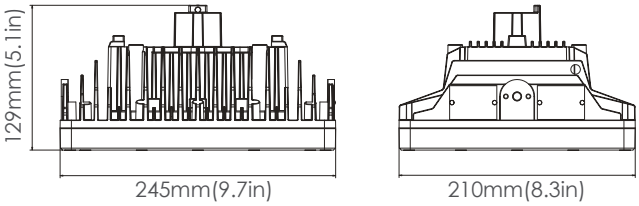
Application

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

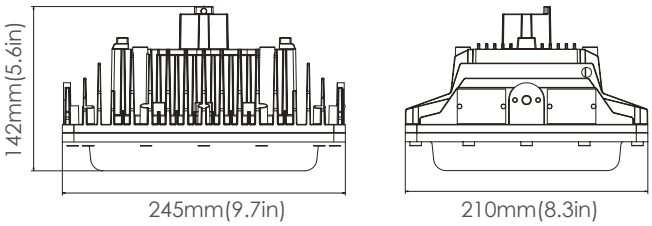
Warranty

5-Year Standard Warranty
LED lumen Maintenance：L70>130,000 Operation Hours@65°C

Product Dimensions



CID1 Model



CID2 Model

Model	Net weight CID1(Glass)	Net weight CID2(PC)	Product Dimensions (L×W×H)	Gross weight CID1(Glass)	Gross weight CID2(PC)	Package Dimensions (L×W×H)
NJZ-FEL-H-21	4.8kg/10.5lbs	3.3kg/7.3lbs	245×210×129mm 9.7×8.3×5.1in **CID1(Glass)**	5.8kg/12.8lbs	4.3kg/9.5lbs	339×278×202mm 13.3×10.9×8.0in
NJZ-FEL-H-40	4.9kg/10.8lbs	3.4kg/7.5lbs		5.9kg/13.0lbs	4.4kg/9.7lbs	
NJZ-FEL-H-50	5.3kg/11.7lbs	3.8kg/8.4lbs	245×210×142mm 9.7×8.3×5.6in **CID2(PC)**	6.3kg/13.9lbs	4.8kg/10.6lbs	
NJZ-FEL-H-60	5.3kg/11.7lbs	3.8kg/8.4lbs		6.3kg/13.9lbs	4.8kg/10.6lbs	

Mounting

Pendant

Bracket

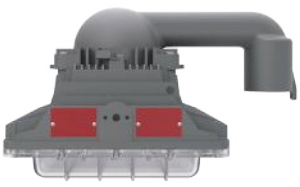
Ceiling

Pole

CID1 Model

CID2 Model*

Stanchion 25°



Stanchion 90°

Wall 25°

Wall 90°

CID2 Model*

Safety cable installed

* Not for luminaires marked for Class I, Division 1, available for Glass or PC lens models with C1D2 / C2D1 listings

Technical Parameter

Electrical

Specification		NJZ-FEL-H-21	NJZ-FEL-H-40	NJZ-FEL-H-50	NJZ-FEL-H-60
Rated Power		21W	40W	50W	60W
Input Voltage		AC120-277	AC120-277	AC347-480	AC120-277
Input Frequency		50/60Hz			
Input Current	(AC120/277V)	0.18/0.09A	0.34/0.16A	N.A	0.48/0.215A
	(AC347/480V)	N.A	N.A	0.15/0.1A	N.A
Power Factor		≥0.9			
Driver Efficiency		≥90%			
Surge Protection		2kv	2kv	6kv	6kv

Optical

Specification	NJZ-FEL-H-21	NJZ-FEL-H-40	NJZ-FEL-H-50	NJZ-FEL-H-60
Lumen Output	4200Lm	6499Lm	7179Lm	8514Lm
Lumens Per Watt	150Lm/W*			
Beam Angle	T2/T3/T5			
Correlated Color Temperature (CCT)	2700K/4000K/5000K			
Color Rendering Index (CRI)	Ra>75			

*value calculated based on 5000K ,varies to differrent spec

Environmental

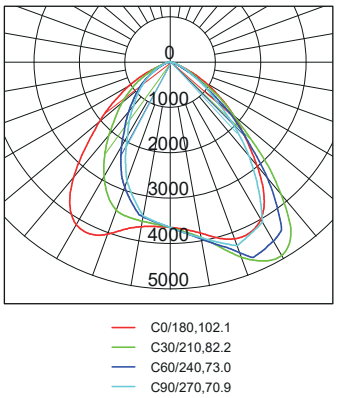
Specification		NJZ-FEL-H-21	NJZ-FEL-H-40	NJZ-FEL-H-50	NJZ-FEL-H-60
Ambient Operating Temperature		-40°C~+65°C(-40°F~+149°F)			60W only 64°C
Optimal Operating Temperature		25°C (77°F)			
T-code	CID1	T6	T6	T6	T5
	CID2	T4A	T4	T4A	T4
	CIID1	T6	T6	T6	T5

Mechanical

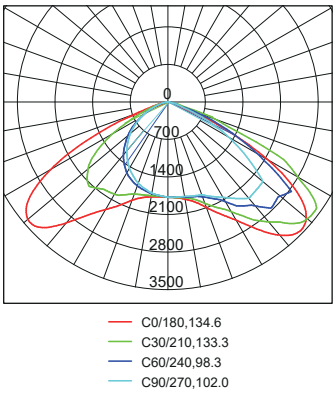
Specification	NJZ-FEL-H-21	NJZ-FEL-H-40	NJZ-FEL-H-50	NJZ-FEL-H-60
Housing Material	Copper-free Aluminum			
Lens Material	Tempered glass(Clear/Frosted)/PC(Diffused only)			
Hardware	Stainless steel 316			
Color	Dark Grey (RAL7037)			
Finish	Polyster powder coating for uniform corrosion resistance			
Protection	IP66 & 67/IK08(Glass)/IK10(PC)/5G vibration/1000hrs salt spray			
Mounting	Pendant, Bracket, Ceiling, Pole, Wall, Stanchion			
Installation	MIN 90°C SUPPLY CONDUCTORS			
Cable entries	1 x NPT3/4 (one at top)			
Termination	Leads(standard L/N/G,Dim+/Dim-/12V),Cord optional			

Photometric

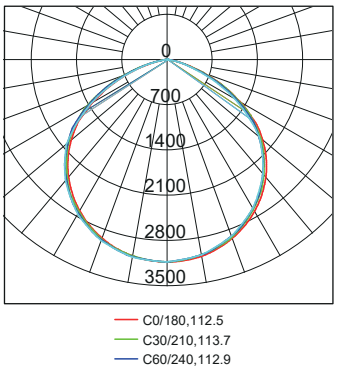
Type II



Type III



Type V



Ordering Information and Mounting Accessories

NJZ	–	FEL-H	–	21	–	V01	–	RZ	–	T2	–	25	–	TG	–	P	–	GR		* XX
Brand		Series		Wattage		Voltage		Color Temp		LED diffuser type		Hazloc		Lens		Mount Type		Color		Accessories

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

BRAND
NJZ

SERIES
FEL-H

WATTAGE
21=21W
40=40W
50=50W
60=60W

VOLTAGE
V01= AC120-277V
V04= AC347-480V
(50W only)

COLOR TEMP
RN= 2700K (Warm White)
RL= 4000K (Neutral White)
RZ= 5000K (Neutral White)

LED DIFFUSER TYPE
T2=Type II LED diffuser*
T3=Type III LED diffuser*
T5=110° (No LED diffuser)
* available with TG (clear glass) only

HAZLOC RATING
1=CID1,CID2,CIID1*(Glass lens ver)
25=CID2,CIID1# (PC lens ver)

LENS TYPE
TG = Clear glass
FG = Frosted glass
FP = Frosted PC(Drop lens)

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

COLOR OF FINISH
GR=Gray(Standard)
BL=Black

ACCESSORIES
JB01=Junction Box NPT 3/4"
PB02= 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")
WG04=Stainless Steel Wire guard for Flat Lens
WG05=Stainless Steel Wire guard for Drop Lens
SC04=Stainless Steel Safety Cable kit
CA01=3' SEOOW-18/3 Cord (Factory installed)
CA-X=Cable, order upon request
AD01=Adapter for mounting parts "JB01" "WL25" "WL90" "SN2501 & SN2502" "SN9001 & SN9002"
PC01=Pipe Clamp (M8*48mm) for pole Φ 1 7/8'' (48mm)
PC02=Pipe Clamp (M8*60mm) for pole Φ 2 3/8'' (48mm)
SP03=10kv Surge Protector for 120-277V
SP04=10kv Surge Protector for 347-480V

INSTALLATION TIPS
1. Cabling
2ft (0.6m) leads standard (L/N/G, Dim+, Dim-, 12V)
Special request for various length

2.Cable Entries
3/4" NPT (Top x1 open)

3.Dimming
Standard: 0-10V Dimming (10-100%)

IP67 IK10

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

PB02
Wall/Pipe
U-Bracket (SUS 304)
Stainless steel bracket

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

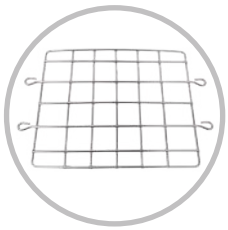
WL90
Wall mount-90°
NPT 3/4" Grey Painted
A356 Aluminum AL

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

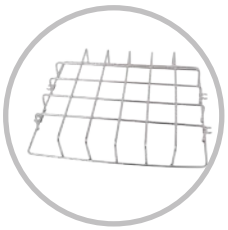
SN2502
Stanchion-25°,
NPT 1.50"(1.900"Pole OD)
slip-fit stanchion mount

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



WG04
Stainless Steel
Wire guard



WG05
Stainless Steel
Wire guard

SC04
Stainless Steel
Safety Cable kit

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

AD01
Adapter for
mounting parts

PC01
Stanchion mount
Pipe clamp_one pair

PC02
Stanchion mount
Pipe clamp_one pair

SP03
10KV Surge
Protector 100~277V

SP04
10KV Surge
Protector 347~480V

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.