Manufacturing for Manufacturers



Hammer (NJZ-FEL-H Series) Hazardous Location LED Luminaire



2020-02-10 V1.0 EN

Hammer

Hazardous Location LED Luminaire

NJZ-FEL-H Series

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 150 Lm / 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
- High Temperature silicone gasketing
- Thermal shock and impact resistant tempered glass lens for CID1, PC Lens for C1D2 models
- Harsh & Hazardous Duty

Compliance

NEC/CEC Standard

UL 844 Class I Division 1, Group B, C, D Class I Division 2, Group A, B, C, D Class II Division 1, Group E, F, G Class III UL 1598/UL 1598A Marine

FCC IP66 & IP67 IK10 (PC) / IK08 (Glass) 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

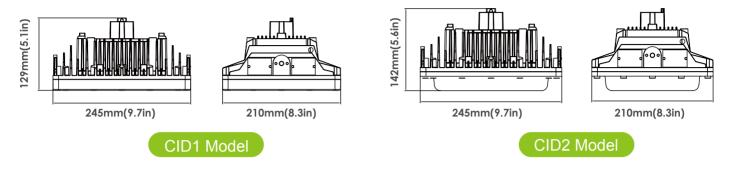
Warranty

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





Product Dimensions



Model	Net weight C1D1 (Glass)	Net weight C1D2 (PC)	Product Dimensions (L×W×H)	Gross weight C1D1 (Glass)	Gross weight C1D2 (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 C1D1 (Glass) 245×210×142mm 9.7×8.3×5.6in	5.8kg/12.8lbs	4.3kg/9.5lbs	296*286*192 11.7×11.3×7.6in
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		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



Technical Parameter

Electrical

Specification		NJZ-FEL-H-21	NJZ-FEL-H-40	NJZ-FEL-H-50	NJZ-FEL-H-60	
Rated Pc	Rated Power		40W	50W	60W	
Input Vo	Input Voltage		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	
input current	(AC347/480V)	N.A	N.A	0.15/0.1A	N.A	
Power Factor		≥0.95				
Driver Efficiency		≥90%				
Surge Protection		4kv				

Optical

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

*Typical value evaluated to T5 optic/5000k(clear glass), varies for different models

Environmental

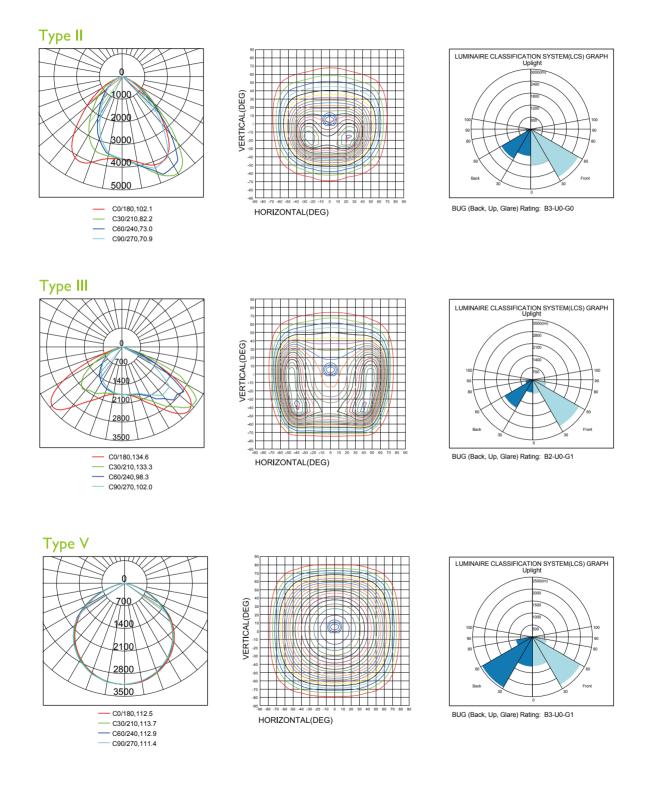
Spe	Specification		NJZ-FEL-H-40	NJZ-FEL-H-50	NJZ-FEL-H-60		
Ambient Ope	Ambient Operating Temperature		-40°C ~+65°C/-40°F~+149°F				
Optimal Ope	Optimal Operating Temperature		25°C (77°F)				
	CID1	Т6	Т6	Т6	T5		
T-Code	CID2	T4A	T4	T4A	Τ4		
	CIID1	Т6	Т6	Т6	Τ5		

Mechanical

Specification	NJZ-FEL-H-21	NJZ-FEL-H-40	NJZ-FEL-H-50	NJZ-FEL-H-60	
Housing Material		Copper-free	e Aluminum		
Lens Material	Tempered glass (Clear/frosted)/PC (Diffused only)				
Mounting Options	Bracket, Pendant, Pole, Ceiling, Wall 25°/90°, Stanchion 25°/90°				
IP Rating	IP66				
IK Rating	IK08 (Tempered Glass) / IK10 (PC Lens)				

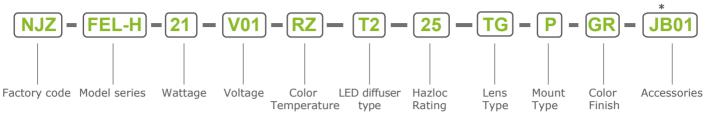


Photometric





Ordering Information and Mounting Accessories



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

FACTORY CODE NJZ

MODEL SERIES FEL-H

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

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

COLOR TEMPERATURE

RD= 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)

HAZLOC RATING

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

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

MOUNT TYPE

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

COLOR FINISH **ACCESSORIES**

GR = "gray"	JB01=Junction Box NPT 3/4"
BL= "black"	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' SJTOW-18/3 Cord (Factory installed)
	CA-X=Cable, order upon request
	AD01=Adapter for mounting parts "JB01" "WL25" "WL90" "SN2501 & SN2502" "SN2501 & SN2502"
	PC01=Pipe Clamp (M8*48mm) for pole φ 1 7/8" (48mm)
	PC02=Pipe Clamp (M8*60mm) for pole φ 2 3/8" (60mm)
	SP03=10kv Surge Protector for 120-277V
	SP04=10kv Surge Protector for 347-480V



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



Hammer



JB01

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



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

SN2501

SN2502

Stanchion-25°,

Stanchion-25°,

NPT 1.25"(1.660"Pole OD)

NPT 1.50"(1.900"Pole OD)

slip-fit stanchion mount

slip-fit stanchion mount



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



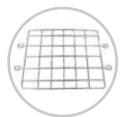
WL90 Wall mount-90° NPT 3/4" Grey Painted A356 Aluminum AL

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



AD01 Adapter for mounting parts



WG05 Stainless Steel Wire guard



PC01 Stanchion mount Pipe clamp_one pair



Stainless Steel Safety Cable kit



PC02 Stanchion mount Pipe clamp_one pair



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.

