

Born for Industrial Safety



Heat™ (NJZ-FLH Series)

High Temperature Lighting
70°C LED High Bay



2021-01-06 V1.6 EN

Heat™



High Temperature Lighting -- 70°C LED High Bay

NJZ-FLH Series

Product description

The Heat™ NJZ-FLH Series LED Luminaire combines optical performance, energy efficiency, and outstanding versatility to meet the demand of industrial environments with high ambient temperatures and wet applications in Heavy industrial plants, Foundries, Steel Mills, Pulp Paper Mills as well as aircraft hangars and shipyards also delivers a wide range of light outputs from 29,000 up to 116,000 lumen that replace 400W-2,000W HID / HPS / Metal halide fixtures.

NJZ-FLH Series offers higher efficacy for increased energy savings, lower maintenance costs and shorter paybacks.

Features

- Innovative design accommodates up to 8 LED modules
- Heat-sinking technology ensures long lifespan and low light decline
- Design guarantees IP66 & 67 protection for wet locations
- High luminous efficacy-Up to 150 Lm/W
- Suitable for mounting heights from 20 to 100+ feet
- Input Voltage: AC120-277V , AC347-480V (50/60Hz)
- Instant illumination and restrike-no warm-up time required
- 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 or PC Lens
- Valid over the entire temperature range from -40°C to 70°C (-40 °F to 158 °F)

Compliance

UL / CUL,

FCC, DLC*

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

CE/RoHS

IP66 & 67

IK08 (Glass) / IK10 (PC)

5G Vibration

1000hrs salt spray

Application

Heavy Industry

Foundries

Steel Mills

Pulp Paper Mills

Aircraft hangars

Shipyards

Warranty

5-Year Limited Warranty

LED lumen Maintenance:L70>110,000 Operation Hours@70°C

Driver: If operates 24/7 constantly

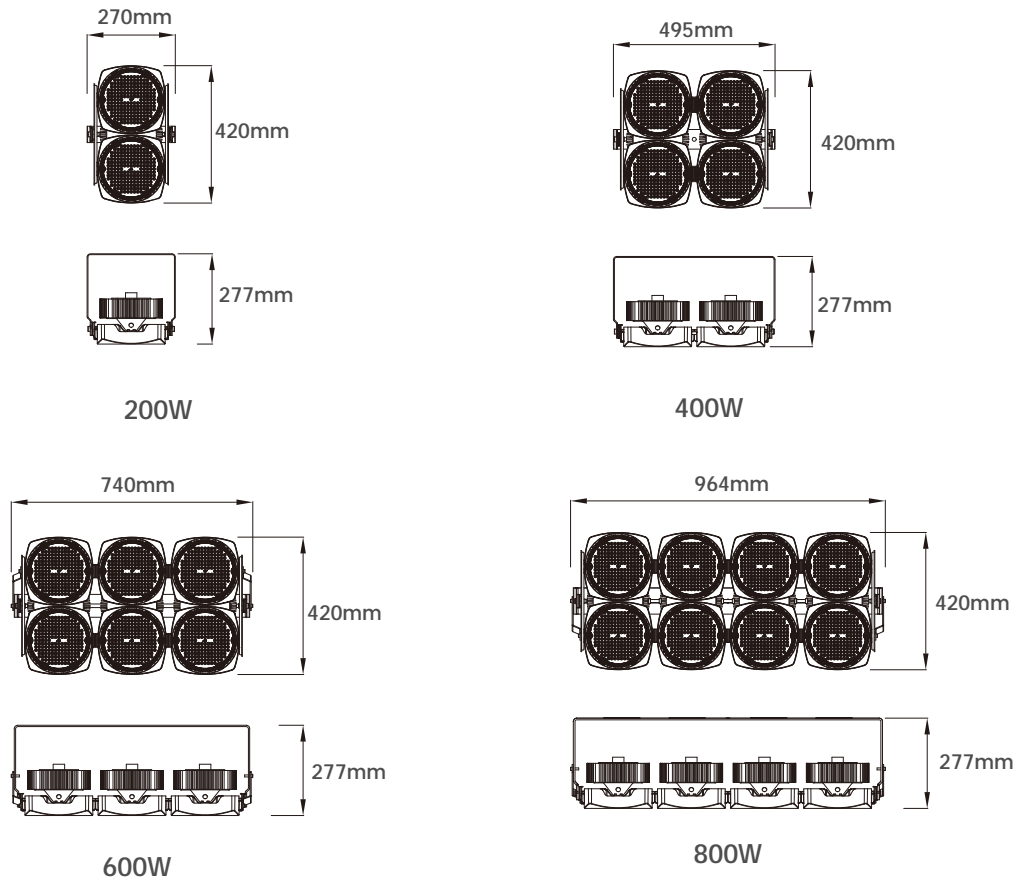
20,000hrs or @70°C (2.5 years)

30,000hrs@65°C (3.5 years)

43,800hrs@60°C Ta. (5-year)



Product Dimensions



Model	Net weight(PC/Glass)	Product Dimensions (L×W×H)	Gross weight	Package Dimensions (L×W×H)
NJZ-FLH-200	8.7kg/9.5kg	420x270x277mm	9.7kg/10.5kg	553x380x226mm
NJZ-FLH-400	16kg/17.6kg	495x420x277mm	17kg/18.6kg	605x554x226mm
NJZ-FLH-600	25.8kg/28.2kg	740x420x277mm	26.8kg/29.2kg	859x578x231mm
NJZ-FLH-800	33.5kg/36.6kg	964x420x277mm	34.5kg/37.6kg	1085x578x231mm

Technical Parameter

Electrical

Specification	NJZ-FLH-200	NJZ-FLH-400	NJZ-FLH-600	NJZ-FLH-800	
Rated Power	200W	400W	600W	800W	
MH Replacement	400-600W	1000-1200W	1500W	2000W	
Input Voltage	AC120-277, 347-480 V				
Input Frequency	50/60Hz				
Power Factor	>0.9				
Driver Efficiency	≥90%				
Input current	(AC120-277V)	1.67/0.81A	3.34/1.62A	5.01/2.43A	6.68/3.24A
	(AC347-480V)	0.58/0.42A	1.16/0.84A	1.74/1.26A	2.32/1.68A
THD	≤20%				

Optical

Specification	NJZ-FLH-200	NJZ-FLH-400	NJZ-FLH-600	NJZ-FLH-800
Lumen Output	30000Lm	60000Lm	90000Lm	120000Lm
Lumens Per Watt	1 lm/W (30°/60°/90°/120°/30*120°) 1.0lm/W (15°/TYPEIII)			
Beam Angle	15°/30°/60°/90°/30*120°/Type III (PC Lens) 120°(clear glass)			
Correlated Color Temperature (CCT)	3000K/4000K/5000K/5700K			
Color Rendering Index (CRI)	Ra >70			

Environmental

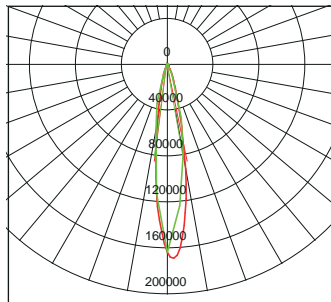
Specification	NJZ-FLH-200	NJZ-FLH-400	NJZ-FLH-600	NJZ-FLH-800
Ambient Operating Temperature	-40°C to 70°C (-40 °F to 158 °F) *			
Optimal Operating Temperature	25°C (77°F)			

*Polycarbonate lens reduces max ambient temperature to 65°C.

Mechanical

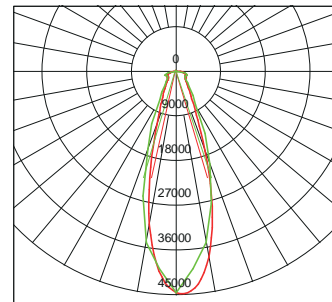
Specification	NJZ-FLH-200	NJZ-FLH-400	NJZ-FLH-600	NJZ-FLH-800
Housing Material	Aluminum Alloy			
Lens Material	Tempered glass / PC			
Hardware	Stainless steel 316			
Color	BLACK (RAL9005)			
Finish	Polyster powder coating for uniform corrosion resistance			
Protection	IP66&67 / IK08 (Glass) / IK10 (PC) / 5G vibration / 1000hrs salt spray			
Mounting	U-Bracket			
Installation	MIN 90°C SUPPLY CONDUCTORS			

15 Degree



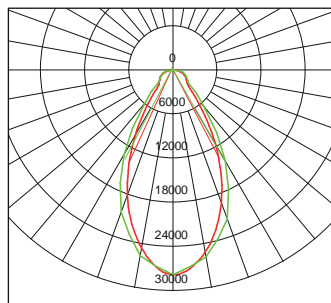
— V 0.0DEG PLAN,17.6
— H 0.0DEG PLAN,17.1

30 Degree



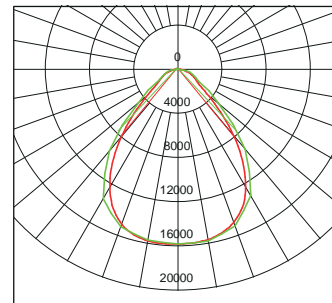
— V 0.0DEG PLAN,31.4
— H 0.0DEG PLAN,35.1

60 Degree



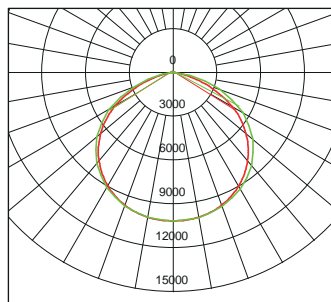
— V 0.0DEG PLAN,52.3
— H 0.0DEG PLAN,59.7

90 Degree



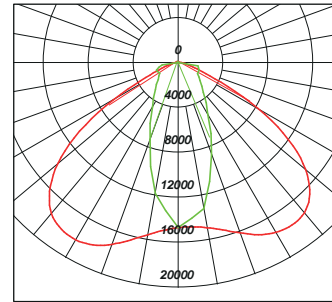
— V 0.0DEG PLAN,80.1
— H 0.0DEG PLAN,87.0

120 Degree



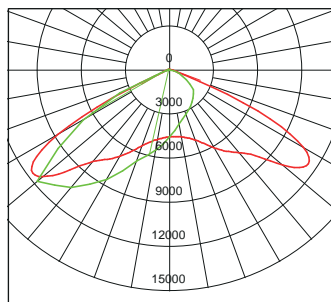
— V 0.0DEG PLAN,115.8
— H 0.0DEG PLAN,122.3

30*120 Degree



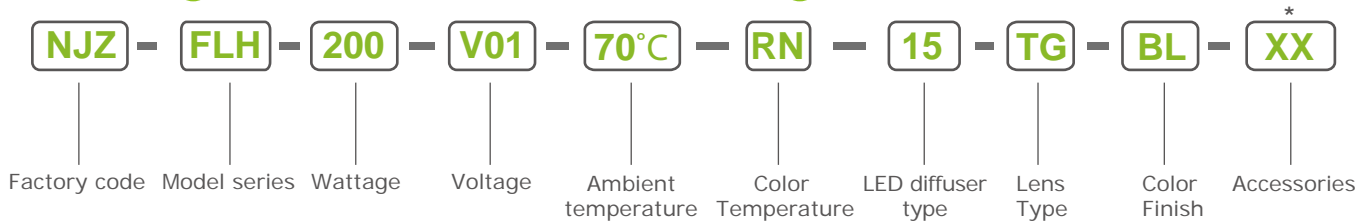
— V 0.0DEG PLAN,120.3
— H 0.0DEG PLAN,44.1

Type III



— V 0.0DEG PLAN,134.8
— H 0.0DEG PLAN,48.2

Ordering Information and Mounting Accessories



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

FACTORY CODE

NJZ

MODEL SERIES

FLH

WATTAGE

200=200W
400=400W
600=600W
800=800W

VOLTAGE

V01= AC120-277V
V04= AC347-480V

AMBIENT TEMPERATURE

65°C= PC lens max Ta.
70°C= Glass lens max Ta.

COLOR TEMPERATURE

RN= 3000K
RL= 4000K
RZ= 5000K
RM= 5700K

LED DIFFUSER TYPE

15=15°
30=30°
60=60°
90=90°
T3=Type III
120=120°
32=30*120°

Note

15°/30°/60°/90°/30*120°/Type III (PC Lens)
120° (Clear glass)

LENS TYPE

TG = Clear glass
FG = Frosted glass
PC = PC

COLOR FINISH

BL= "black"
TDC=Tiger Drylac paint

ACCESSORIES

WG06=Wire Guard
SP01=10KV Surge Protector for 120-277V
SP02=10KV Surge Protector for 347-480V
SP05=20KV Surge Protector for 120-277V
SP06=20KV Surge Protector for 347-480V
CA02=6ft.cord (Standard)
CA-X=Custom length cord, order upon request
SC05=3ft. Safety Cable Kit
JB20=Junction box for 200W
JB40=Junction box for 400W
JB60=Junction box for 600W
JB80=Junction box for 800W

INSTALLATION TIPS

Dimming Standard: 0-10V Dimming (10-100%) + 12V





WG06

Wire Guard



SP01

Surge Protector
10KV
AC120~277V



SP02

Surge Protector
10KV
AC347~480V



SP05

Surge Protector
20KV
AC120~277V



SP06

Surge Protector
20KV
AC347~480V



CA02

6ft. Cord



SC05

3ft. Safety Cable kit



JB20

Junction box
for 200W



JB40

Junction box
for 400W



JB60

Junction box
for 600W



JB80

Junction box
for 800W