

Born for Industrial Safety



Freedom™ (NJZ-FLB Series)

Marine lighting

• Ports / Crane / Spot Lighting



Specsheet-2021-09A EN

Freedom™

Marine lighting—Ports / Crane / Spot Lighting



Product description

The Freedom™ NJZ-FLB Series LED Luminaire combines optical performance, energy efficiency, and outstanding versatility to meet the requirements of harsh lighting solutions in Ports / Wharf, Crane, Loading Docks, Large construction sites, also delivers a wide range of light outputs that replace 200W-1,000W HID / HPS / Metal halide fixtures.

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

Features

- Modular Design accommodates from 50W to 400W
- Instant illumination and restrike no warm-up time required
- High luminous efficacy-Up to 140 Lm/W
- Input Voltage: AC120-277V , AC347-480V (50/60Hz)
- Various lighting distribution 25°/60°/90°/120°/40°*120°/65°*120°
- Each module configurable individually with different beam patterns
- Impact resistant UV protected PC Lens
- Anti-corrosion aluminum housing tested 2000hrs to standard ASTM"B117-11"
- All exposed fasteners with quality stainless steel 316
- Robust design rated with IP67 / IK08 / 5G

Compliance

CB/CE/RoHS by TUV Listed
UL/CUL
FCC
IP67
IK08
5G
2000hrs salt spray

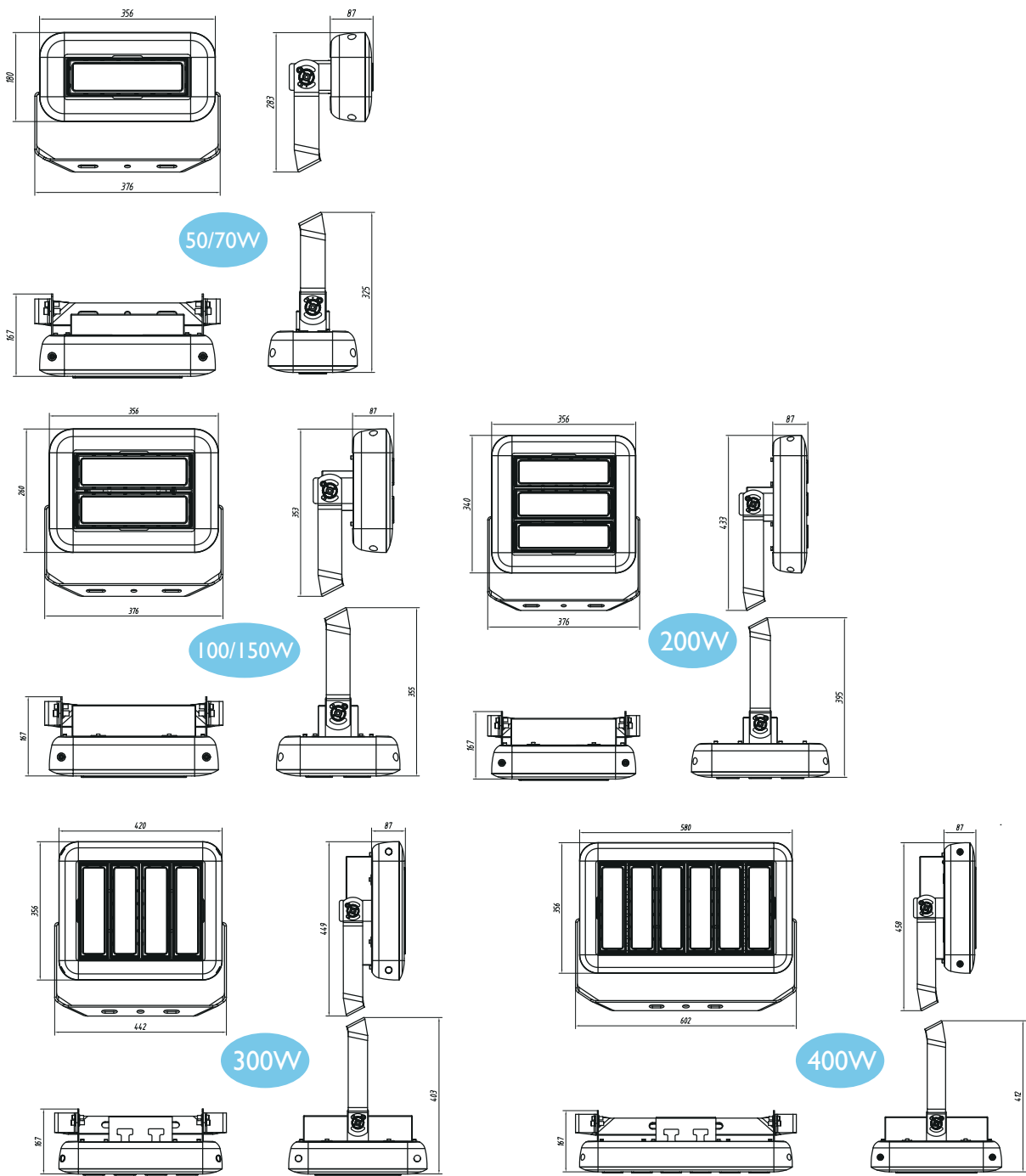
Warranty

5-Year Standard Warranty(On-shore)
2-Year Standard Warranty(Off-shore)
LED lumen Maintenance: L70>140,000 Operation Hours@50°C

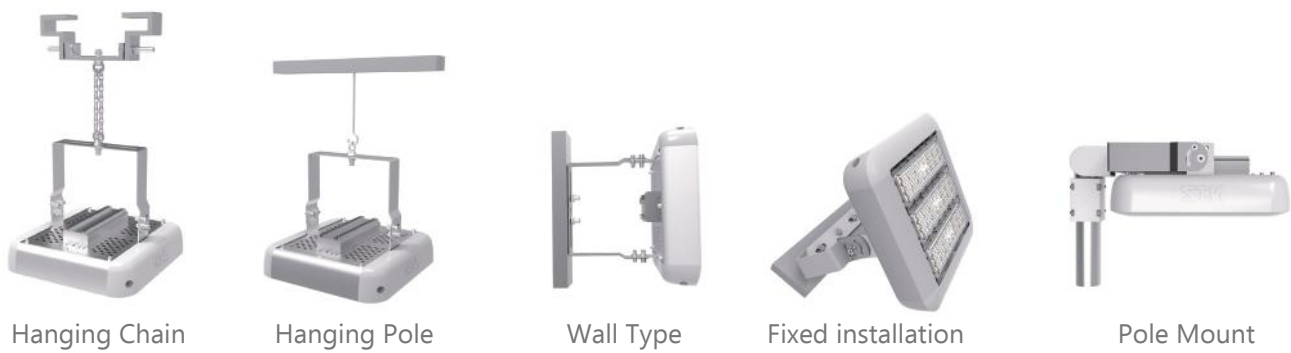
Application

- Ports / Wharf
- Crane
- Loading Docks
- Large construction sites

Product Dimensions



Mounting



Technical Parameter

Electrical

Specification	NJZ-FLB-50	NJZ-FLB-70	NJZ-FLB-100	NJZ-FLB-150
Rated Power	50W	70W	100W	150W
Input Voltage	AC120-277, 347-480V			
Input Frequency	50/60Hz			
Output Voltage	DC48/54			
Power Factor	>0.95			
Driver Efficiency	≥90%			

Optical

Specification	NJZ-FLB-50	NJZ-FLB-70	NJZ-FLB-100	NJZ-FLB-150
Lumen Output	7000Lm	9800Lm	14000Lm	21000Lm
Lumens Per Watt	140Lm/W *			
Beam Angle	25°/60°/90°/120°/40°*120°/65°*120°			
Correlated Color Temperature (CCT)	3000K/4000K/5700K			
Color Rendering Index (CRI)	Ra≥70			

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

Environmental

Specification	NJZ-FLB-50	NJZ-FLB-70	NJZ-FLB-100	NJZ-FLB-150
Ambient Operating Humidity	10%~90% RH			
Ambient Operating Temperature	-40°C~+50°C			
Optimal Operating Temperature	25°C (77°F)			
Salt Spray ASTM"B117-11"	2000hours			

Mechanical

Specification	NJZ-FLB-50	NJZ-FLB-70	NJZ-FLB-100	NJZ-FLB-150
Housing Material	Marine grade aluminum			
Back plate / Bracket	Stainless steel 304			
Hardware	Stainless steel 316			
Finish (Housing)	Anodized			
Finish (Back plate&Bracket)	Polyster powder cotingfor uniform corrosion resistance			
Lens Material	Polycarbonate			
Protection	IP67 / IK08			

Technical Parameter

Electrical

Specification	NJZ-FLB-200	NJZ-FLB-300	NJZ-FLB-400
Rated Power	200W	300W	400W
Input Voltage	AC120-277, 347-480V		
Input Frequency	50/60Hz		
Output Voltage	DC48/54		
Power Factor	>0.95		
Driver Efficiency	≥90%		

Optical

Specification	NJZ-FLB-200	NJZ-FLB-300	NJZ-FLB-400
Lumen Output	28000Lm	42000Lm	56000Lm
Lumens Per Watt	140Lm/W *		
Beam Angle	25°/60°/90°/120°/40°/120°/65°/120°		
Correlated Color Temperature (CCT)	3000K/4000K/5700K		
Color Rendering Index (CRI)	Ra>70		

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

Environmental

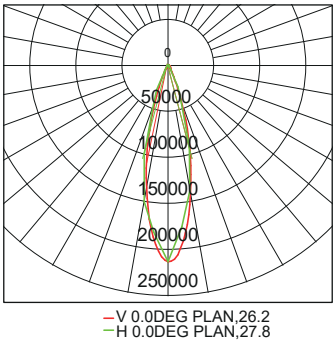
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Mechanical

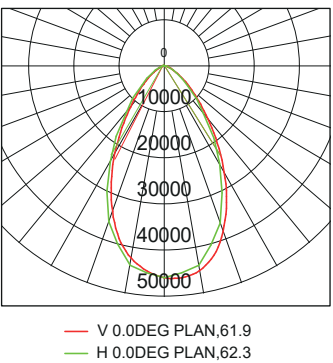
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Protection	IP67 / IK08		

Photometric

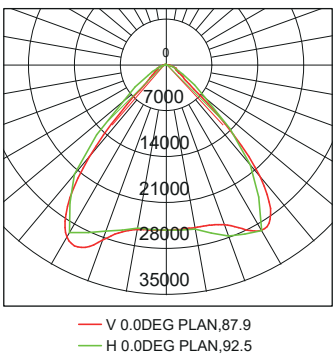
25 Degree



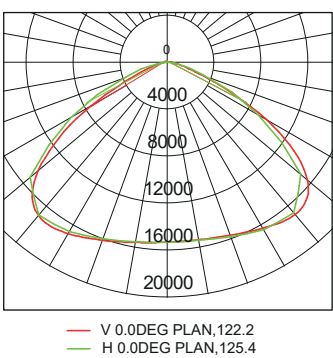
60 Degree



90 Degree

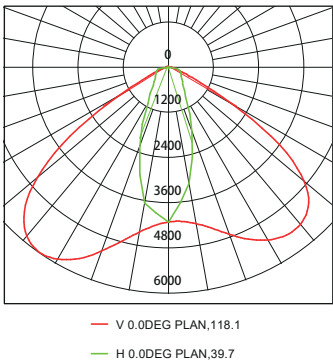


120 Degree

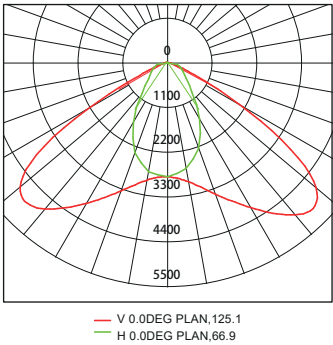


Photometric

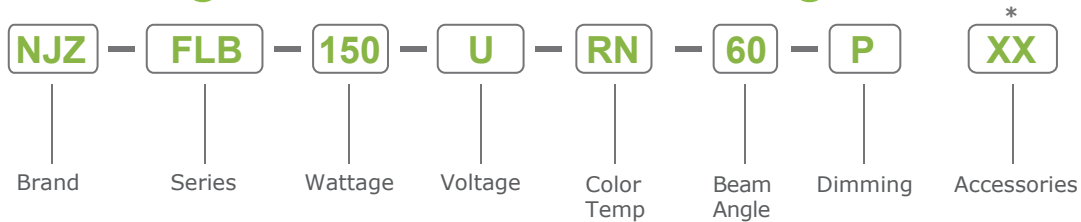
40*120 Degree



65*120 Degree



Ordering Information and Mounting Accessories



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

BRAND

NJZ

SERIES

FLB

WATTAGE

50=50W
 100=100W
 150=150W
 200=200W
 300=300W
 400=400W

VOLTAGE

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

COLOR TEMP

RN= 3000K (Warm White)
 RL= 4000K (Neutral White)
 RM= 5700K (Cool White)

BEAM ANGLE

25=25°
 60=60°
 90=90°
 120=120°
 42=40*120°
 62=65*120°

Dimming

P=Non dimmable

ACCESSORIES

RG01=Hanging ring
 UB05=Stainless steel U-Bracket for 360Deg Rotation
 SF02=Slip fitter



RG01

Hanging Chain/Hanging Pole Type
Hanging ring



UB05

360Deg Rotation
Stainless steel U-Bracket



SF02

Pole Mount
Slip fitter(angle adjustable)

