

Born for Industrial Safety



Freedom

- High Bay Light (NJZ-FLB Series)
- Flood Light
- Area Light



Freedom

High Bay Light



Flood Light



Area Light



Product description

The Freedom NJZ-FLB Series LED Luminaire combines optical performance, energy efficiency, and outstanding versatility to meet the requirements of high & low bay lighting applications in industrial and commercial buildings, delivers a wide range of light outputs that replace 100W-1,000W HID / HPS / Metal halide and four-to-eight lamp T5/T8 high intensity fluorescent fixtures.

With some retrofit in design and installation, Freedom series LED High Bay Light is able to be applied in different sites with new functions. Freedom series LED area light is able to be used in parking lot and plaza through using a slipfitter to install the lighting fixture to a pole. By modifying the bracket, Freedom series LED High Bay Light is able to be mounted on floor as a floodlight, or mounted in tunnel as a tunnel light.

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

Features

- Innovative design accommodates up to 6 LED modules
 - Heat-sinking technology ensures long lifespan and low light decline
 - Double coupling design guarantees IP67 protection for wet locations
 - Imported PC lens, non-yellowing and non-cracking for long term outdoor application
 - Heavy Duty Anodized Die-cast aluminum housing and corrosion resistant coating
 - Valid over the entire temperature range from -40°C to 50°C (-40 °F to 122 °F)
-

Compliance

CB/CE/RoHS by TUV Listed
UL/CUL, DLC Listed

Warranty

5-Year Standard Warranty
LED lumen Maintenance: L80@50,000 Operation Hours

Application (High Bay Light/Flood Light)

For low mounting height	For high mounting height
Assembly Lines	Factories
Manufacturing Areas	Exhibition Halls
Food Processing Plants	Big-Box Retail Stores
Warehouses And Parking Garages	
Cold Storage	
Distribution Center	

Application (Area Light)

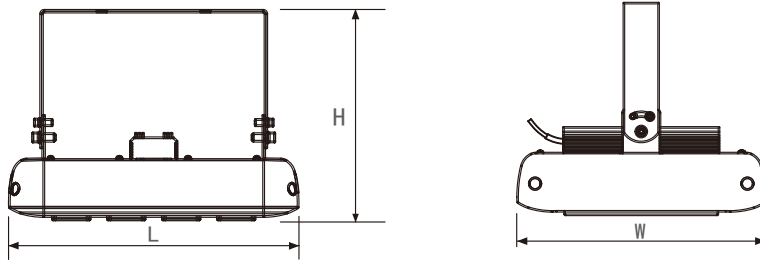
Parking lots
Main streets
Secondary trunk roads
Sidewalks/residential areas
Industrial parks/squares/parks
Schools/gardens

Lumen Efficient Design Inc. lumenefficientdesign.ca

All documentation is subject to change without notice. Please contact us for details.

tel. 705.207.6793 main. 705.677.9090

Product Dimensions



Model	Net weight	Dimensions (L×W×H)	Gross weight	Dimensions (L×W×H)
NJZ-FLB-50	3.4kg/7.5lbs	356x200x152mm 14x7.8x6in	8.2kg/18.1lbs	520x430x220 mm 20x16.9x8.7in
NJZ-FLB-100 NJZ-FLB-150	5.2kg/11.5lbs	356x260x152mm 14x10.2x6in	6.2kg/13.7lbs	430x345x220 mm 16.9x13.6x8.7in
NJZ-FLB-200	7.1kg/15.7bs	356x340x152mm 14x13.4x6in	8.1kg/17.9lbs	430x425x220mm 16.9x16.7x8.7in
NJZ-FLB-300	9.2kg/20.3lbs	420x356x152mm 16.5x14x6in	10.4kg/22.9lbs	505x430x220mm 19.9x16.9x8.7in
NJZ-FLB-400	13.7kg/30.2lbs	580x356x152mm 22.8x14.2x6in	15.2kg/33.5lbs	665x430x220mm 26.2x16.9x8.7in

*The Data in the table above equally applies to NJZ-FLB-E series and NJZ-SLE Series at the same rated power

Mounting



Hanging Chain



Hanging Pole



Ceiling Type



Wall Type



Fixed installation



Pole Mount

Technical Parameter

Electrical

Specification	NJZ-FLB-50	NJZ-FLB-100	NJZ-FLB-150
Rated Power	50W	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-100	NJZ-FLB-150
Lumen Output	7000Lm	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		

Environmental

Specification	NJZ-FLB-50	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)		

Mechanical

Specification	NJZ-FLB-50	NJZ-FLB-100	NJZ-FLB-150
Housing Material	Aluminum Alloy		
Lens Material	PC		
IP Rating	IP67		
IK Rating	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		

Environmental

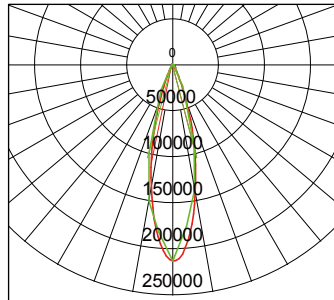
Specification	NJZ-FLB-200	NJZ-FLB-300	NJZ-FLB-400
Ambient Operating Humidity	10%~90% RH		
Ambient Operating Temperature	-40°C ~ +50°C		
Optimal Operating Temperature	25°C (77°F)		

Mechanical

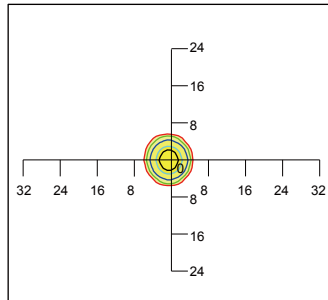
Specification	NJZ-FLB-200	NJZ-FLB-300	NJZ-FLB-400
Housing Material	Aluminum Alloy		
Lens Material	PC		
IP Rating	IP67		
IK Rating	IK08		

Photometric

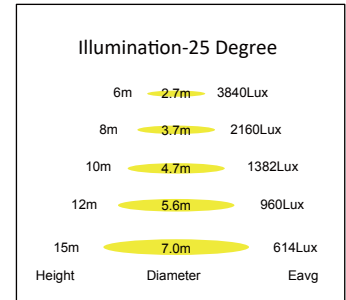
25 Degree



- V 0.0DEG PLAN,26.2
- H 0.0DEG PLAN,27.8

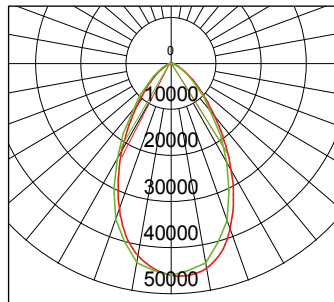


Mounting Height 33'(10m), 0 Tilt

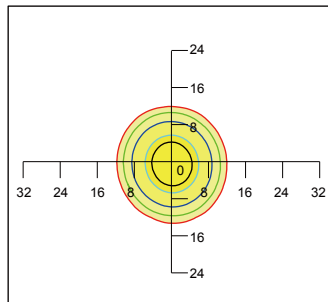


Flux out: 25032 lm

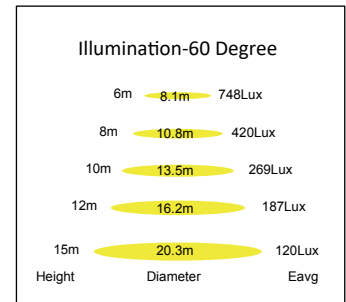
60 Degree



- V 0.0DEG PLAN,61.9
- H 0.0DEG PLAN,62.3

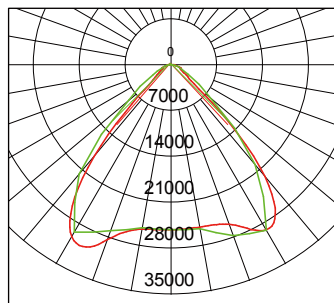


Mounting Height 33'(10m), 0 Tilt

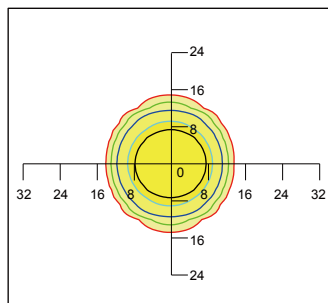


Flux out: 30573 lm

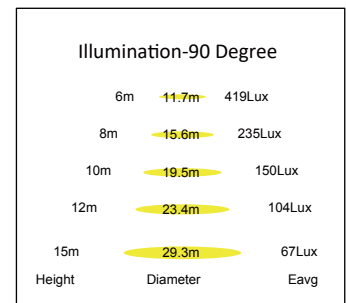
90 Degree



- V 0.0DEG PLAN,87.9
- H 0.0DEG PLAN,92.5

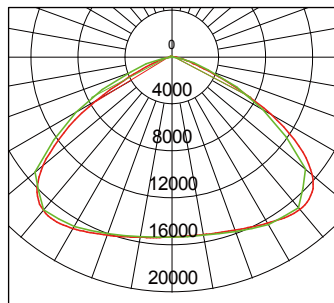


Mounting Height 33'(10m), 0 Tilt

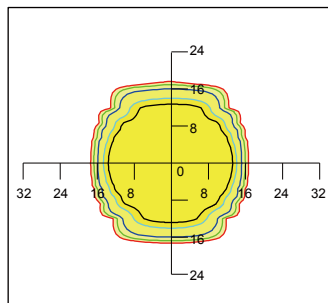


Flux out: 44217 lm

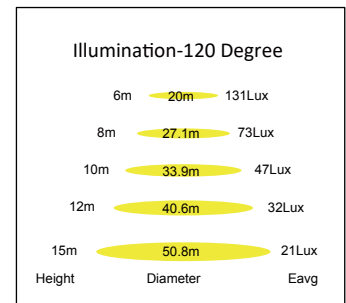
120 Degree



- V 0.0DEG PLAN,122.2
- H 0.0DEG PLAN,125.4

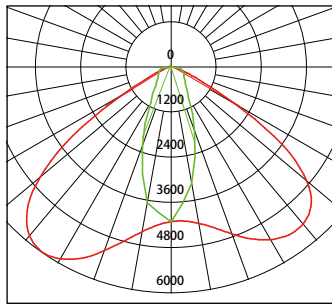


Mounting Height 33'(10m), 0 Tilt

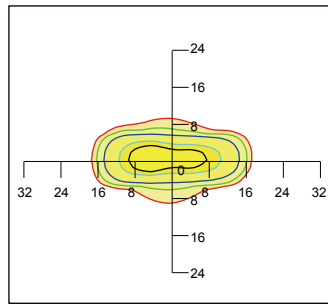


Flux out: 50304 lm

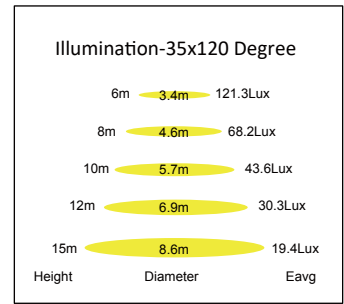
40*120 Degree



— V 0.0DEG PLAN,118.1
— H 0.0DEG PLAN,39.7

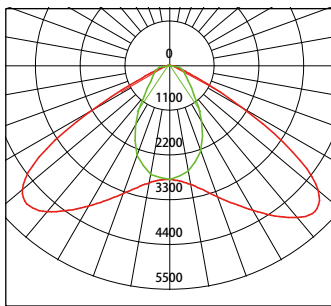


Mounting Height 33'(10m), 0 Tilt

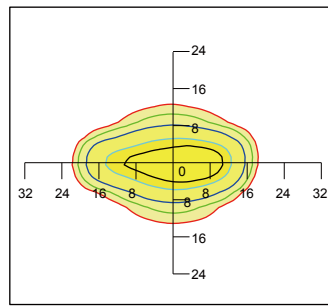


Flux out: 1204 lm

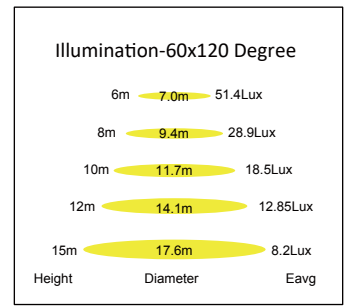
65*120 Degree



— V 0.0DEG PLAN,125.1
— H 0.0DEG PLAN,66.9

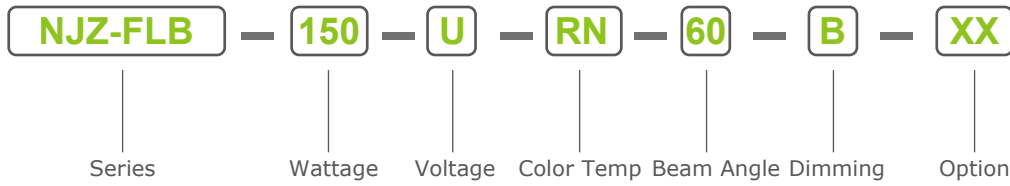


Mounting Height 33'(10m), 0 Tilt



Flux out: 2016 lm

Ordering Information and Mounting Accessories



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
RL= 4000K
RR=5700K

BEAM ANGLE

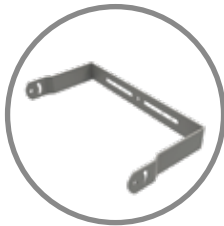
25=25°
60=60°
90=90°
120=120°
42=40*120°
62=65*120°

DIMMING

B=0/1-10V

OPTION

UB04=U bracket
RG01=Hanging ring
UB05=Stainless steel U-Bracket for 360Deg Rotation
SF02=Slip fitter



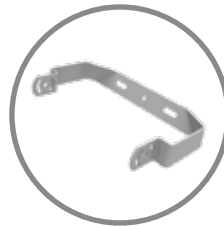
UB04

Ceiling/Wall Type
Stainless steel U-Bracket



RG01

Hanging Chain/Hanging Pole Type
Hanging ring



UB05

Fixed installation Type
Stainless steel U-Bracket



SF02

Pole Mount
Slip fitter(angle adjustable)

