Fidelux

FRHBN - National Sanitation Foundation (NSF), IP69K Rated Impact Resistant Luminaire for Food Processing

Product Description

The FRHBN high bay series design to help to keep foods free of contaminants, our luminaire does meet some of the most stringent cleanliness standards required of food industry.

Specifically designed to meet performance listings relevant to their intended use - including Wash down, IP69K, NSF rating. Our environment friendly luminaires are built to be corrosion resistant, contain no toxic materials, and withstand frequent hose downs in support of overall clean ability.

Features & Benefits

- Wash-down / Steam Clean
- NSF
- IP69K
- High Efficacy
- Corrosion Resistant
- Impact Resistant
- Excellent glare control

The FRHBN has been tested to meet stringent IP69K high pressure, high temperature washdown requirements

Applications

- Food Processing
- Beverage Processing
- Dairy Farms
- Creamery - Cream Processing
- Cheese Factory
- Silo - Grain Storing
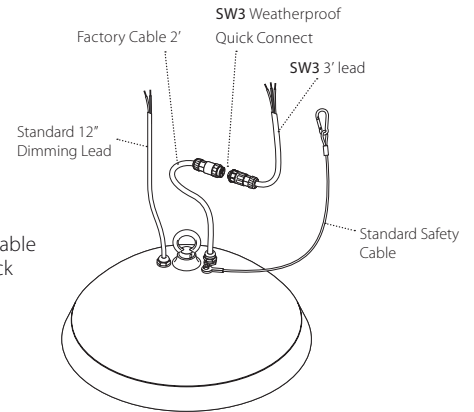- Chemical Areas and Hazardous Locations

Mounting Options

- SUK - Suspension Chain Mounting Hook
- Pendant and Surface Mounting bracket

Approval Listings

- NSF, ETL

FRHBN shown with optional **SW3** Power cable with weatherproof quick connect

Factory Cable 2'
SW3 Weatherproof Quick Connect
SW3 3' lead
Standard 12" Dimming Lead
Standard Safety Cable

IK10 | IP69K | 120° | 90° | 45° | NSF

1-10V | ETL LISTED | 10 YEARS WARRANTY

Fidelux

FRHBN Series Product Ordering Guide

Example: FRHBN-150W-50K-90-PC6-CM

Product	CCT/Color Temp	Voltage	Controls & Dimming	Beam Angles	Power Cord	Finish	Mounting Options
FRHBN-50W FRHBN-80W FRHBN-100W FRHBN-150W	30K (3000K) 35K (3000K) 40K (4000K) 50K (5000K) 57K (5700K)	Blank (120-277VAC)	Blank (1-10V)	45 (45 degree) 90 (90 degree) 120 (120 degree)	PC5 (5ft power cord) STD SW3 5' Power cable with weatherproof quick connect (2' and 3' leads) *All configurations include 12" dimming lead standard*	Blank (White Finish only)	CM (Chain Mount) STD PM (3/4" Rigid Pendant Adaptor)

Field Installed Options

REF	Polycarbonate reflector	No bottom cover, Field Installed
REF-C	Polycarbonate reflector	With bottom cover, Field Installed

FRHBN Special Features

Can endure 80°C high temperature and 9000KPa high pressure water when desinfecting   - IP69K

NO SCREW NEEDED

Fidelux
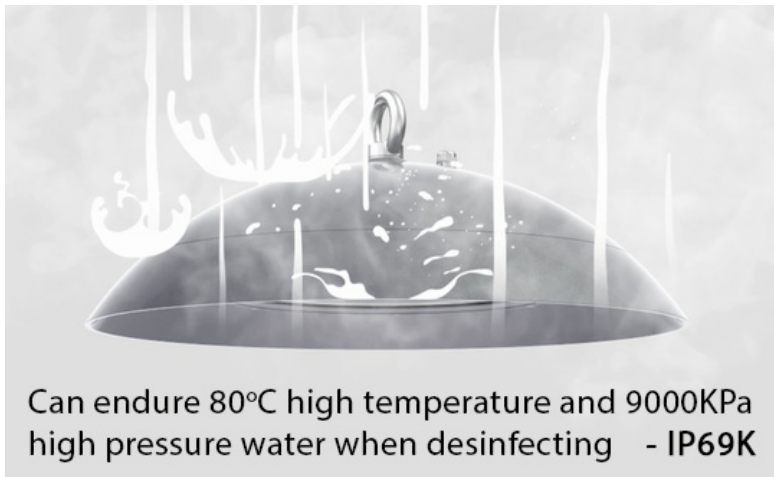
FRHBN Series Specification Summary

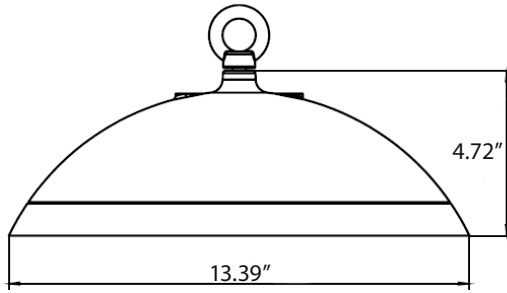| DATA SOURCE	LM79			
Product Number	FRHBN-50W	FRHBN-80W	FRHBN-100W	FRHBN-150W
Nominal Efficacy lm/w	130 lm/w	130 lm/w	155 lm/w	151 lm/w
Nominal Input Power: Wattage	50	80	96.3	148.2
Lumens @ 30/35k (No DLC)	6,000	9,600	14,546	21,827
Lumens @ 4000K	6,125	9,870	14,562	21,850
Lumens @ 5000K	6,250	10,140	14,783	22,181
Lumens @ 5700K	6,500	10,400	14,893	22,347
Impact Resistance Rating	IK10			
Beam Degree	45°, 90°, 120°			
Ingress Protection Rating	IP69K			
Qualifications	NSF, ETL, DLC Premium (50W and 80W Pending) *(Non-DLC: All wattages @ 3000K & 3500K)*			
CCT / Kelvin Temp Options	3000K / 3500K / 4000K / 5000K / 5700K			
Dimming / Control Options	1-10VAC Dimming			
Input Voltage Options / Hertz	120-277VAC / 50-60Hz			
CRI	70			
Power Factor	≥0.90			
THD	15%			
L70 Lifespan (TM21 Calculated)	174,000+ Hrs.			
Material (Heat Radiator)	Aluminium alloy			
Ambient Working Temp	-30℃ ~ +60℃			
Max Dimensions (in)	13.39" x 4.72"			15.35" x 5.24"
Total Weight	10.7 lbs			
Limited Warranty	10 yrs			

Notes

Values are nominal unless noted +/- 5%
Specifications change without notice
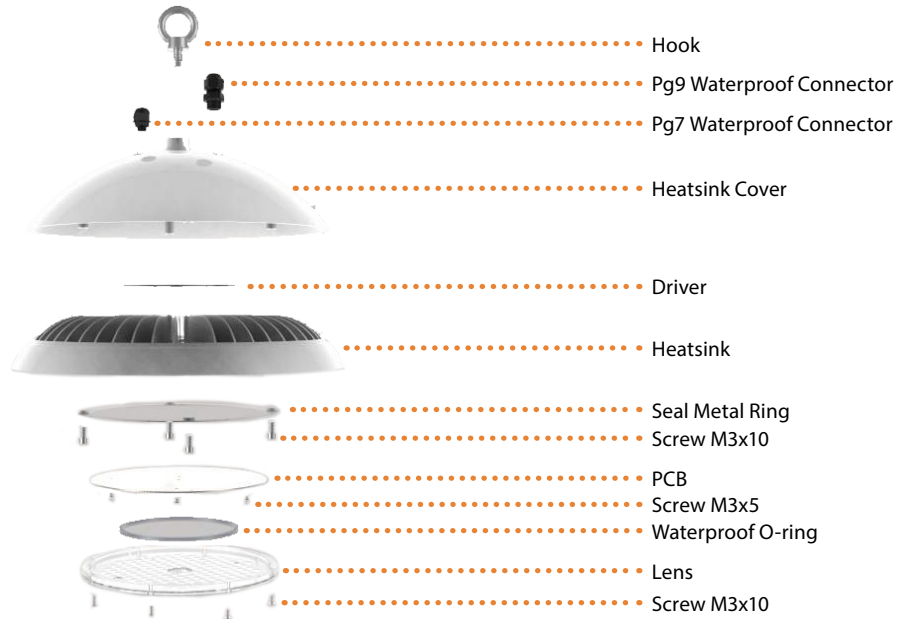
Fidelux

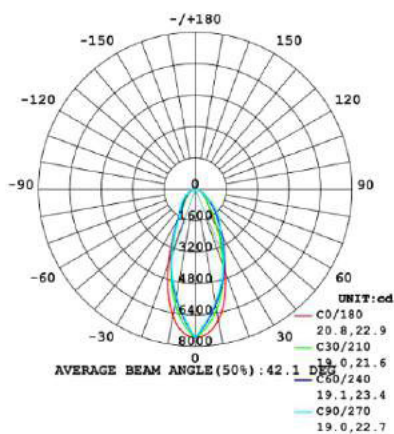## FRHBN Series Design Details & Photometry

FRHBN-50/80/100W

4.72"

13.39"

FRHBN-150W

5.24"

15.35"

Construction

- Hook
- Pg9 Waterproof Connector
- Pg7 Waterproof Connector
- Heatsink Cover
- Driver
- Heatsink
- Seal Metal Ring
- Screw M3x10
- PCB
- Screw M3x5
- Waterproof O-ring
- Lens
- Screw M3x10

Photometry

50W/45°

-/+180
-150   150
-120   120
-90   90
1600
3200
-60   4800   60
6400
UNIT:cd
-30   8000   30   C0/180
0   20.8,22.9
AVERAGE BEAM ANGLE(50%):42.1 DEG   C30/210
19.0,21.6
C60/240
19.1,23.4
C90/270
19.0,22.7

50W/90°

-/+180
-150   150
-120   120
-90   90
600
1200
-60   1800   60
2400
UNIT:cd
-30   3000   30   C0/180
0   47.1,49.3
AVERAGE BEAM ANGLE(50%):95.5 DEG   C30/210
44.9,50.2
C60/240
45.2,50.2
C90/270
45.3,49.7