

Product Description

The Fidelux FRHB[™] Premium High-Bay luminaire is designed to deliver high efficacy - up to 161 l/pw with high lumen packages with precise optical control to illuminate the most challenging applications.

Standard Nichia[®] LED Technology options offer 70& 80+ CRI solutions to enhance products at all levels of commercial and industrial uses requiring different levels of color rendering options.

The Fidelux FRHB[™] High Efficacy High-Bay luminaire offers several industry standard mounting options allowing the product to be positioned for upgrade opportunities or new installations in a wide range of industrial applications.

Features & Benefits

- Excellent Glare Control with Uniform Light Distribution
- Powder Coated Aluminum cast profile
- IP67 Rated Dust Tight, Water Resistant Plus
- IK10 Impact Resistant Rating
- L70 @ 262,000 Hrs, L80 @ 161,000 Hrs, L90 @ 72,000 Hrs
- Seal LED Light Engine
- Corrosion Resistant with 168 hours of salt spray testing per ASTM-B117-73
- 10 Years limited warranty

Applications

- Warehouse
- Indoor Pool, Tennis Court & Gymnasium
 Applications
- Manufacturing
- Food Handling
- Car Wash / High Pressure Wash
- Cold Storage & Freezer
- Indoor & Outdoor Canopy Apps

Mounting Options

- (SM) Surface Mount (Yoke & Chain Mount)STD
- (CM) Chain Mount
- (PM) Pendant Mount

Approval Listings

- ETL, DLC, Natatorium Standards
- Most of our products are DLC listed, qualifying them for the highest rebates. Please check individual product specs for DLC status. Refer to DLC website by clicking this link: <u>https://www.designlights.org</u>

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Performance Summary

Efficacy up to: 161 l/pw

CRI: (low to High end) 76.8cri ~ 83.8cri

CCT: 3000K, 3500K, 4000K & 5000K

Dimming: 0-10v Standard

Operating Temp: -40°C - +56.8°C / (347/480v) -40°C ~ +45°C

Input Voltage: 110-277vac / 347-480vac

TM21 Lifetime: L70 @ 262,000 , L80 @ 161,000 , L90 @ 72,000

Ingress Protection Rating: IP67

Beam Angles: 60°, 90°, 120° (Within 5% light output)







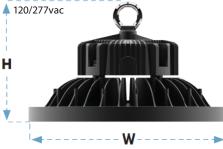
FRHB Series Specification Summary

DATA SOURCE	LM79	LM79	LM79		
Product Number	FRHB-100W	FRHB-150W	FRHB-200W		
Nominal Efficacy l/pw @ 5000k	139	161	140		
Input Power: Watts @ 5000k	100.05	150.12	199.9		
Lumens @ 3000K	13,200	24,000	27,900		
Lumens @ 3500K	13,200	24,000	27,900		
Lumens @ 4000K	13,876	24,000	27,911		
Lumens @ 5000K	13,893	24,139	27,986		
Beam Degree		60°, 90°, 120°			
IP RATING	IP67				
Qualifications	ETL, DLC Premium ETL, DLC Premium		ETL, DLC Premium		
CCT/Kelvin Temp Options	3000K / 3500K / 4000K / 5000K				
Dimming	0-10v				
Input Voltage Options	100-277vac / 347-480 vac				
Power Factor		>0.99			
CRI (Low End)	83.7	76.8	83.8		
THD @ 120v	12.4%	12.5%	13.3%		
L70 Lifespan	L70 @ 262,000 Hrs, L80 @ 161,000 Hrs, L90 @ 72,000 Hrs				
Ambient Working Temp	-40°C - +56.8°C / (347/480∨) -40°C ~ +4 5°C				
Max Dimensions (in)	11 7/8″ x 7 1/8″	14 1/8" x 6 7/8"	14 1/8″ x 6 7/8″		
Total Weight	10 lbs	10.5 lbs	10.58 lbs		
Limited Warranty	10 yrs				

Notes

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







FRHB Series Product Ordering Guide

Example: FRHB-150W-50K-MSSD-HB -MSSSD-RC-120-PC6-SM

Product	CCT/Color Temp	Voltage	Controls & Dimming	Beam Angles	Power Cord	Mounting Options
FRHB-100W	30K (3000K)	Blank (100-277vac)	Blank (0-10v)STD MSSD-HB (IP65,HB,SD	60 (60 degree)	Blank (1ft -3 wire Power Cord & 6" 0-10v cable)STD	SM (Yoke & Chain Mount)STD
FRHB-150W	35K (3500K)	H (347/480vac)*	occupancy sensor)*	90 (90 degree)	PC6 (6ft, 3 wire Power Cord	CM (Chain Mount)
FRHB-200W	40K (4000K)	H (3477460VaC)	MSSD-RC (Hand-held Remote Control for	120 (120 degree)	& 6ft 0-10v cable)	PM (Pendant Mount)
	50K (5000K)		MSSDHB programing)			

* = Special Order, Longer Lead time

Factory Installed Sensors (Part numbers included on ordering bar)

- MSSD-HB IP65, high-bay, PIR, step dimming occupancy Sensor with daylight harvesting options, Round external Sensor attached to fixture. No Dip Switches, Field Programmable only using MSSD-RC. See MSSD & MSSD-RC spec sheets for programming and sensor specifications data.
- MSSD-RC Hand Held Remote Control for MSSD-HB sensor. One per project only needed. See MSSD-RC spec sheet for programming

Field Installed Tubular EM Driver

(order as separate line item)

- FEM-T25 Field Installed 25w tubular Emergency Driver,90 Min Battery Life (Recommended to use with 100w,150w & 200W) See FEM-T Spec sheets
- FEM-T40 Field Installed 40w tubular Emergency Driver (200w) See FEM-T Spec sheets

Shade Options (order as separate line item)

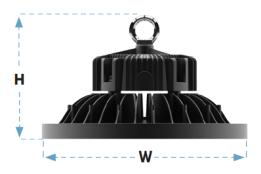
ALD (100,150,200)	Aluminum Diffuser for 100W-150W-200W	
PCD (100,150,200)	PC Diffuser for 100W-150W-200W (no cover)	1 1
PCD- C (100,150,200)	PC Diffuser with Cover and fixing ring for 100W-150W-200W	



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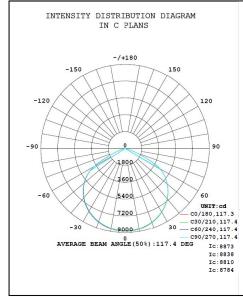
FRHB Series Design Details & Photometry

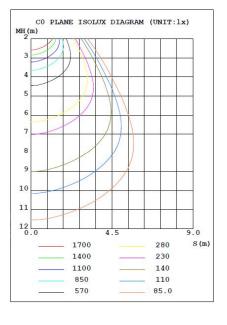
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Product	Width	Height (to top of eye hook)	Weight	
FRHB-100W	14 1/8″	7 1/8″	10 lbs	
FRHB-150W	14 1/8″	7 7/8″	10.5 lbs	
FRHB-200W	14 1/8″	7 7/8″	10.58 lbs	

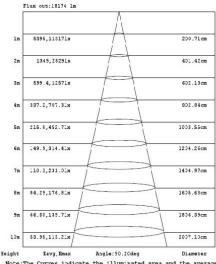


Photometric Test Data

FRHB-150W-50K







Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Zonal Lumen Summary				
Zone	Lumens	% Total		
0-10	1192	4.58		
10-20	3483	13.42		
20-30	5423	20.8		
30-40	6417	24.7		
40-50	5507	21.1		
50-60	2570	9.9		
60-70	932.2	3.6		
70-80	397.5	1.5		
80-90	97.51	0.4		
Total	26019 Lumens	100%		

Zonal Lumen Summary				
Zone	Lumens	% Lamp / Luminaire		
0-60	24592	94.6%		
60-90	1427	5.4%		
0-90	26019	100%		
90-180	0	0%		
0-180	26019	100%		

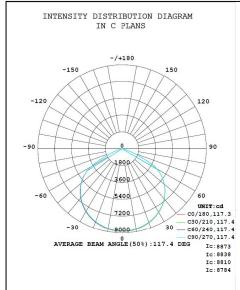


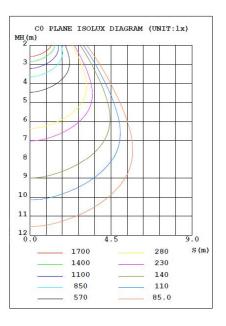


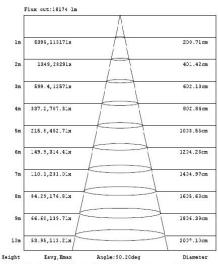
FRHB Series Design Details & Photometry

Photometric Test Data

FRHB-100W-50K

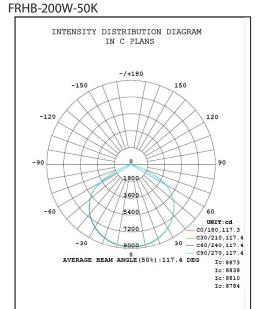


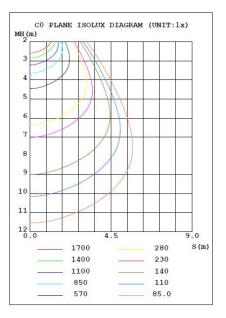


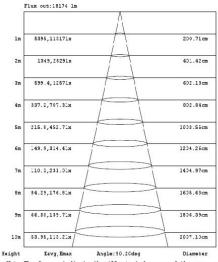


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Photometric Test Data







isight Eavy_Emax Angle:50.20deg Diameter Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance

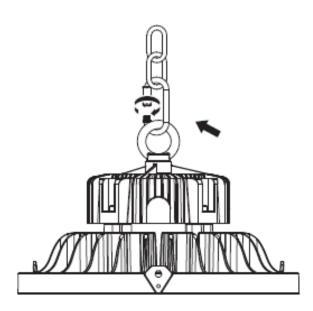


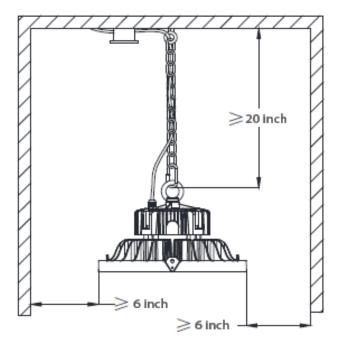


FRHB Series Installation Instructions

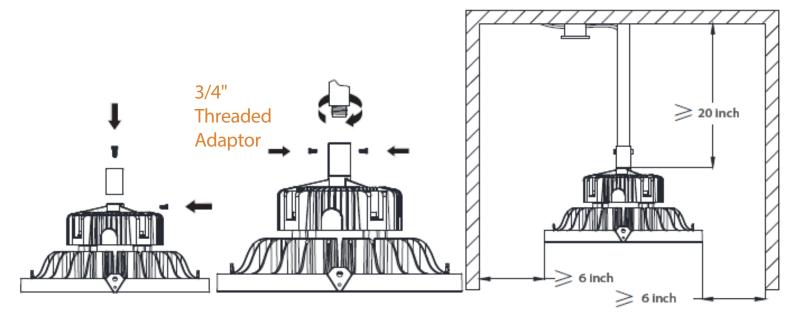
For all FRHB Series Mounting

Chain Mount (CM) Eye Hook





Pendant Mount (PM)





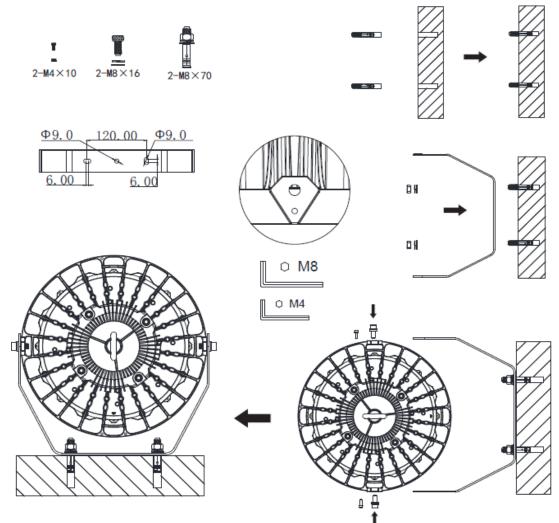




FRHB Series Installation Instructions

For all FRHB Series Mounting

Surface Mount (SM): Yoke Bracket and Eye Hook



\land WARNING:

- Read through this manual before installation.
- Handle product with care.
- The product must be grounded.
- This product must be installed and maintained by certified electrician.
- Consult with the manufacturer before maintenance.
- Turn OFF the power before installation and maintenance.
- Make sure the products are securely installed.
- The housing might become hot after operation.
- Primary use: high-bay luminaires for commercial and industrial buildings.
- Make sure the construction is strong enough to support the products.
- The product will automatically shut down once the temperature goes too high; and will automatically turn on once it cools down.
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed.





FRHB ALD - Aluminum Reflector

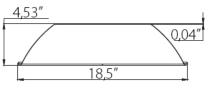
Installation Manual

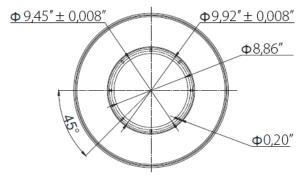
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	Material	Product size L x W x H (inch)	Pack size L x W x H (inch)
Deflecter	Aluminium 1060	18,5 x 18,5 x 4,53	18,98 x 18,98 x 7,48
Reflector	Net Weight (lbs) ±0,22	Gross Weight (lbs) ±0,22	Quantity (pcs)
	8,82	11,46	10

Mounting Instruction







\land

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6 screw 4x crosstip screwdrivers 1x 0 ⟨F/



Fidelux Creating. Connecting. Conserving

FRHB PCD Polycarbonate Reflector

Installation Manual

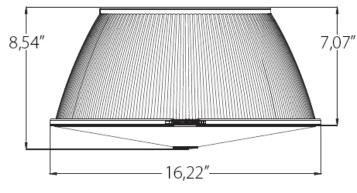
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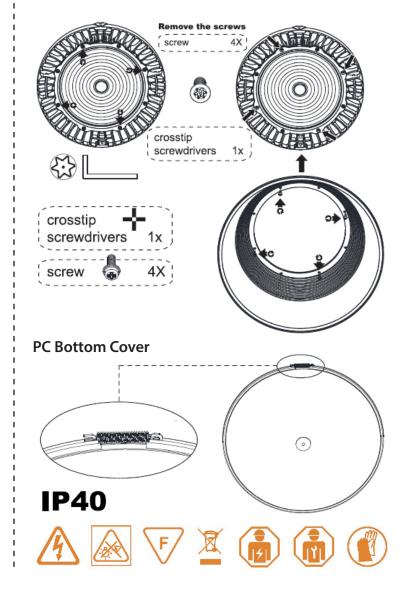


NAME	Product size L x W x H (inch)	Pack size L x W x H (inch)	Net Weight (lbs) ±0,22	Gross Weight (lbs) ±0,22	Material
PCD -C Cover	16,14 x 16,14 x 7,07	17,13 x 17,13 x 15,16	27,34	30,86	Polycarbonate
Bottom Cover	15,91 x 15,91 x 1,65	16,14 x 16,14 x 5,91	19,84	22,93	Polycarbonate
Bottom Cover Ring	16,22 x 16,22 x 0,39	16,93 x 16,93 x 9,84	15,43	17,64	Steel

Dimensions



PCD-C PCD Cover Mounting Instruction





Read through this manual before installation. Handle the product with care.

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