NATATORIUM

FRHBW

ROUND LED NATATORIUM

The Fidelux FRHBW Round LED Natatorium Luminaire series is uniquely designed for long-lasting durability in chlorinated environments. This series is proven to withstand harsh chlorine vapor, humidity, and water droplets and preventing localized corrosion while offering a wide range of lumen packages. FRHBW comes standard with a CCT selectable feature producing up to 150 lm/w. FRHBW fixtures feature a 120 micron powder-coated finish, which is 100% thicker than standard finishes, further enhancing the durability this series provides. The polycarbonate anti-UV IKO8 lens offers beam spreads of 60, 90 and 120 degrees. Optional integrated sensors provide both PIR and ambient light functions, which are easily controlled and programmable in the field with a remote control. IP65 External Emergency Battery Packs are available for all wattages with the flexibility to be either factory or field installed. Optional remote offered for EM Packs for easy testing in the field.

Project _____

Catalog Number _____

Type _____

Date _____

- 400 Hour Salt Spray tested
- IK08 impact resistant polycarbonate lens
- **120 Micron corrosion-resistant finish**
- Energy efficient performance up to 150 lm/W
- Waterproof gasketing
- >50,000 hours operating life (L70)

HOUSING Die cast aluminum with 120 micron corrosion-resistant powder-coated finish. All screws 304 stainless steel.

LEDS CRI >84. Operating life >50,000 hours (L70). Selectable CCT.

OPTICS 60, 90, or 120 degree beam spread clear IK08 impact resistant anti-UV polycarbonate lens. 120 degree frosted lens available. 120 degree lenses not DLC qualified. Aluminum and prismatic polycarbonate shades available.

ELECTRICAL 120-277V, 50/60 Hz, power factor >0.9. THD <20%. Drive current 100W: 0.8A; 150W: 1.2A; 200W: 1.7A; 240W: 2.0A.

EMERGENCY POWER Optional external EM backup battery packs available with 90 min minimum duration.100W *FEM-T25* = 3350 lm;150W *FEM-T25* = 3365 lm; 200W / *FEM-T40* = 5452 lm; 240W with *FEM-T40* = 5390 lm. Optional remote control FEM-T-RC available for remote testing. See FW configuration for Factory-Wiring and assembly. *Not compatible with sensor-equipped units.*

CONTROLS 0-10V dimmable standard. Optional factory- or field-installed plug-and-play integrated PIR/Ambient Light sensor. Optional MPS-RC Remote control for field programming and testing. MPS not compatible with Emergency-equipped units.

TEMPERATURE Operating range -31˚F to 122˚F (-35˚C to 50˚C).

ACCESS / WIRING External wiring with connectors included. 5' power cord. Externally accessible CCT selection switch (IP65). 1' Dimming Wire available.

MOUNTING Closed Ring (included), Yoke, Hook, and Pendant mount options. ADP-1/2" and ADP-3/4" pipe adapters offer cable feed-through.

WEIGHT 100W units: 4.75 lbs.; 150W units: 5.84 lbs; 200W units: 7.16 lbs; 240W units: 8.70 lbs.
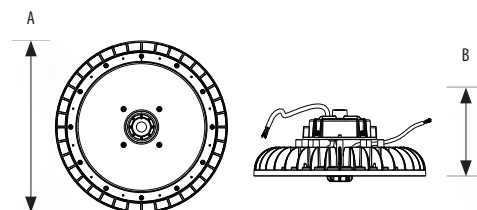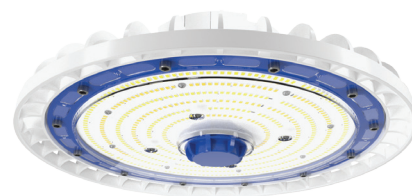
LISTINGS UL, DLC Premium.

WARRANTY 5 year limited warranty.

A

B

Wattage	A	B
100W	10.43"	4.17"
150W	11.81"	4.57"
200W / 240W	13.39"	5.12"

UL LISTED WET LOCATION | RoHS COMPLIANT | IP65 RATED | DLC LISTED PREMIUM | 5 YEARS WARRANTY

Ordering Guide

Example: FRHBW-100W-40K-UNV-D-MPS-90D-WH

Series	Wattage	CCT	Voltage	Control	Lens	Emergency
FRHBW	**100W** **150W** **200W** **240W**	**30K** 3000K **40K** 4000K **50K** 5000K	**UNV-D** 120/277V 0-10V Dimming (STD) *480V Not available*	**MPS** Plug-and-Play Integrated PIR / Ambient Light Sensor *Not compatible with Emergency-equipped units* *MPS is programmed with Remote control MPS-RC only. Order as line item. See options.*	**60D** 60° / DLC **90D** 90° / DLC **120D** 120° (STD) / Non-DLC **FL120D** 120° / Frosted lens / Non-DLC *Frosted option not available for 60° and 90° Lenses.*	*Order as separate line item* **FEM-T25** 100W/150W **FEM-T40** 200/240W **FEM-T25-FW** 100W/150W *Factory Wired* **FEM-T40-FW** 200/240W *Factory Wired*

Options / Accessories (Order Separately) Accessory Examples: FRHBW-MPS-RC / FRHBW-PM / FRHBW-AL100

	Aluminum Shade (90˚)	Polycarbonate Shade (70˚)	Polycarbonate Shade with Cover (70˚)
YM Yoke / U bracket for Surface Mount **HM** Hook Mount **PM** Pendant Mount Adapter for 1/2" threaded rigid pipe pendant **ADP-1/2** Adapter with cable feed-through for 1/2" pendant mount **ADP-3/4** Adapter with cable feed-through for 3/4" pendant mount **ST5** 5ft Safety-Tether **MPS-RC** Remote control **FEM-T-RC** Remote control testing for FEM Emergency Power Units	**AL100** 100W **AL150** 150W **AL200** 200/240W	**PS100** 100W **PS150** 150W **PS200** 200/240W	**PSC100** 100W **PSC150** 150W **PSC200** 200/240W

MPS Default Settings
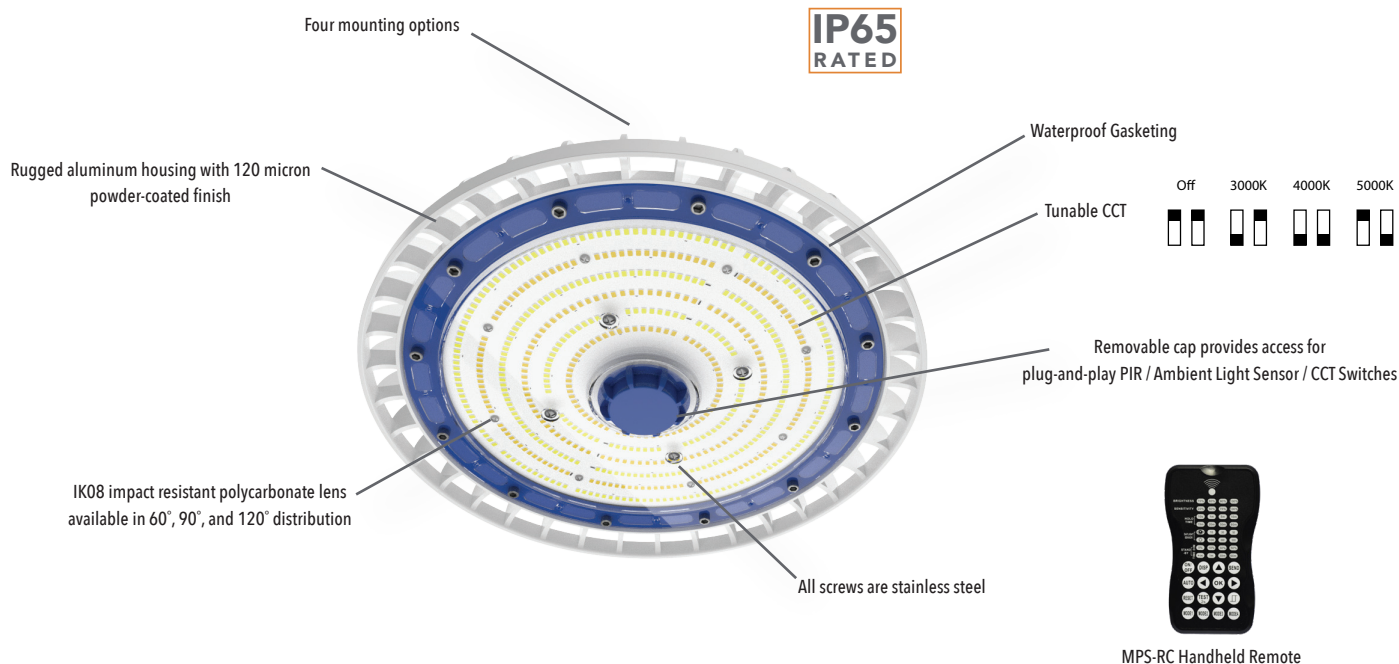*Brightness: 100%; Sensitivity: 100%; Hold Time: 10min; Daylight: Disabled; Standby Dim: 30%; Standby Time: 30 min*
Available Settings
Brightness: 70%, 80%, 90%, 100%; Sensitivity: 20%, 50%, 75%, 100%; Hold Time: 10s, 1m, 5m, 10m, 15m, 20m, 30m, 60m; Daylight: 10, 30, 50, 100, 300, 500 Lux, Disable; Standby Dim: 0%, 10%, 30%, 50%; Standby time: 1m, 30m, 60m, Infinite Please refer to MPS spec for further info.

Features

Four mounting options

IP65 RATED

Rugged aluminum housing with 120 micron powder-coated finish

Waterproof Gasketing

Tunable CCT

| Off | 3000K | 4000K | 5000K |

Removable cap provides access for plug-and-play PIR / Ambient Light Sensor / CCT Switches

IK08 impact resistant polycarbonate lens available in 60˚, 90˚, and 120˚ distribution

All screws are stainless steel

MPS-RC Handheld Remote

Emergency Power

FEM Emergency Backup
Optional remote control FEM-T-RC available for remote testing | Not compatible with sensor-equipped units

Accessories (Field Installed) *All mounting screws are stainless steel*

AL Aluminum Shade

PS Polycarbonate Shade

PSC Polycarbonate Shade with Cover

Mounting Options
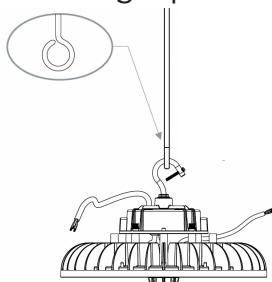
HM Hook Mount
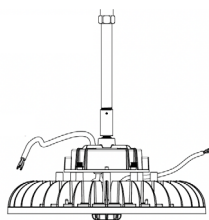
PM Pendant Mount Adapter for 1/2" threaded rigid pipe pendant

ADP 1/2" and 3/4" NPT Pipe Adapter with cable feed-through
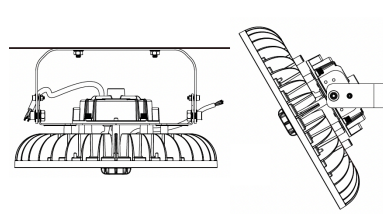
YM Yoke / U bracket for Surface Mount

FRHBW Series Specification Summary

FRHBW	100W 60°	100W 90°	100W 120°	150W 60°	150W 90°	150W 120°	200W 60°	200W 90°	200W 120°	240W 60°	240W 90°	240W 120°
DLC Product ID	S-S31ZHQ	S-ZODEPS	-	S-OTN632	S-RFYCV8	-	S-89P4UE	S-ZTKIGE	-	S-SFQGCY	S-1XRCP9	-
Input Wattage	101.1W	101.3W	100.0W	145.2W	145.6W	150.0W	199.2W	199.9W	200.0W	243.4W	243.1W	240.0W
Efficacy lm/W	130.29 – 143.53			133.49 – 150.60			132.70 – 143.75			130.95 – 142.78		
Lumens @ 3000K	13633	13463	13029	19383	19512	19708	26664	26969	26120	32385	32721	31213
Lumens @ 4000K	14,499	14334	14108	20,275	21928	21322	26,908	28735	28539	32,303	34555	34268
Lumens @ 5000K	14,208	13713	13816	19,456	20531	20529	26,434	27614	27073	31,873	32851	32239
CRI	84	84	84	84	84	85	84	85	85	85	85	85
THD @ 277VAC	<15%			<10%								
Color Temperatures	3000K / 4000K / 5000K											
Dimming	100%, 0-10V											
Input Voltage Options	100-277VAC											
Power Factor	0.88			0.90						0.90		.94
Beam Spread	60° / 90° / 120°											
DLC	60° and 90° Beam spread units DLC Qualified. 120° Beam spread and FL120 Lens units not DLC Qualified.											
L70 Lifespan (TM21)	>50,000 hours											
Ambient Working Temp	-31°F to 122°F (-35°C to 50°C)											
Max Dimensions (in)*	10.43" Dia x 4.17" H			11.81" Dia x 4.57" H			13.39" Dia x 5.12" H					
Total Weight	4.75 lbs			5.84 lbs			7.16 lbs			8.7 lbs.		
Limited Warranty	5 Yrs.											

Values are nominal; Delivered lumens indicated.

*Height does not include mounting options

Project

Catalog Number

Type

Date

Photometrics
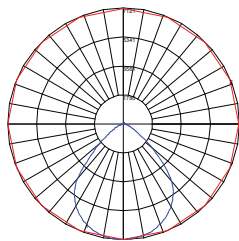
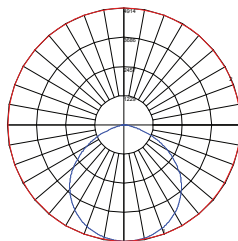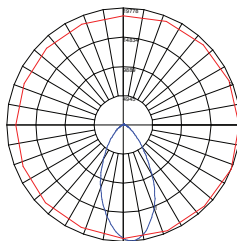| FRHBW-100W 60°	FRHBW-100W 90°	FRHBW-100W 120°	FRHBW-150W 60°	FRHBW-150W 90°	FRHBW-150W 120°
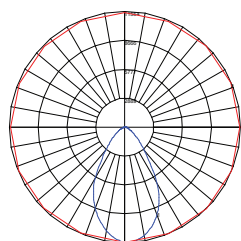
Maximum Candela = 11554
Horizontal Angle = 315
Vertical Angle = 2
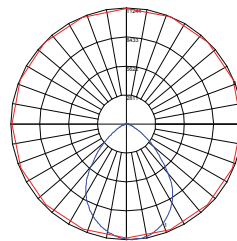
Maximum Candela = 7121.2
Horizontal Angle = 247.5
Vertical Angle = 2

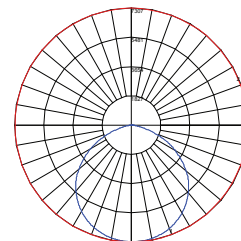Maximum Candela = 4914.5
Horizontal Angle = 90
Vertical Angle = 1

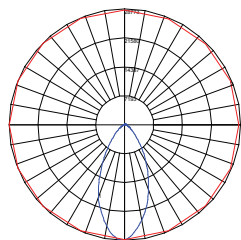Maximum Candela = 19778
Horizontal Angle = 337.5
Vertical Angle = 4

Maximum Candela = 11244
Horizontal Angle = 67.5
Vertical Angle = 3

Maximum Candela = 7307.4
Horizontal Angle = 90 Vertical
Angle = 1

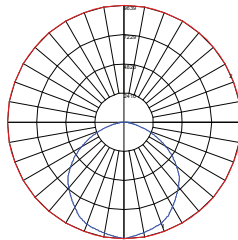| FRHBW-200W 60°	FRHBW-200W 90°	FRHBW-200W 120°	FRHBW-240W 60°	FRHBW-240W 90°	FRHBW-240W 120°

Maximum Candela = 28773
Horizontal Angle = 180
Vertical Angle = 1
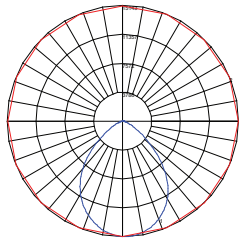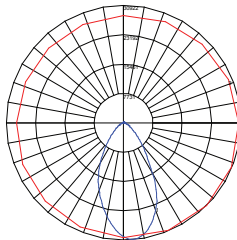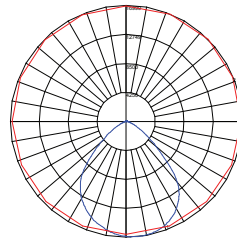
Maximum Candela = 15143
Horizontal Angle = 22.5
Vertical Angle = 2
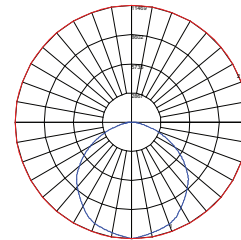
Maximum Candela = 9639.1
Horizontal Angle = 0
Vertical Angle = 0

Maximum Candela = 6999
Horizontal Angle = 67.5
Vertical Angle = 5

Maximum Candela = 6999
Horizontal Angle = 67.5
Vertical Angle = 5

Maximum Candela = 11469
Horizontal Angle = 0
Vertical Angle = 0