



# RECESSED LED

## FHB 100 (4FT) SERIES (8' AVAILABLE)

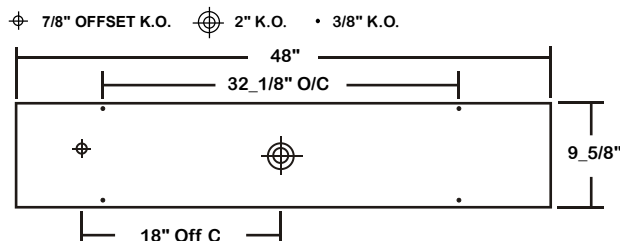
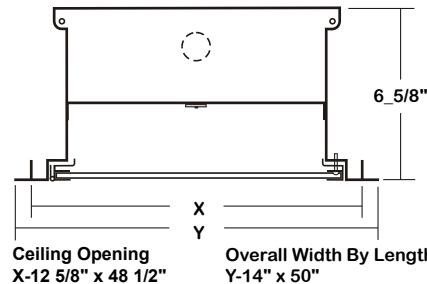
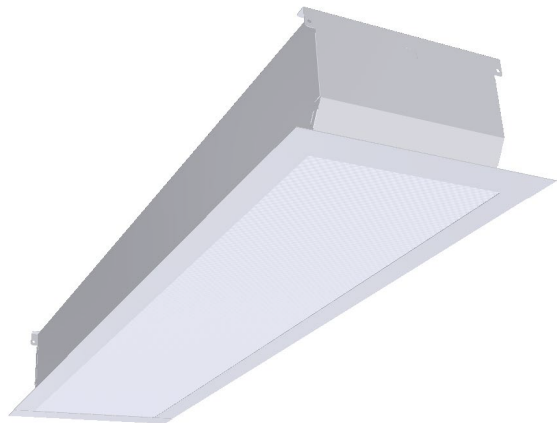
HIGH IMPACT FLAT TRIM FLANGED HANDBALL/RACQUETBALL COURT LUMINAIRE

DATE	
JOB	

WWW.LALIGHTING.COM  
626-454-8300

### RECESSED MOUNTED LED LUMINAIRE

### DIMENSIONS



### APPLICATIONS

- Handball Court, Racquetball Court, Commercial

### FEATURES

- 0-10V dimming driver standard
- Supports California Title 24 compliance

### OPTIONS

- Continuous row mounting available upon request
- Full customization available upon request
- Additional lumen packages and color temperatures available
- Wireless control options available
- Variety of lenses available
- Emergency battery pack available
- Tamper proof screws available
- Hanger yokes available
- Swing-out jacks available

### SPECIFICATIONS

#### CONSTRUCTION

- 22 ga. cold rolled steel housing (20 ga. housing available as specified)
- 20 ga. cold rolled steel door frame secured by full length piano hinge and 2 captive screws
- One way polyurethane gasket (additional gasket options available)

#### FINISH

- Baked white polyester finish / powder coated finish available / minimum reflectance 86%
- Trim flange: painted after fabrication
- Door frame: painted after fabrication

#### OPTICAL

- Inverted high impact clear prismatic "DR" formulated acrylic lens (nominal 0.187)

#### ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF)  $\geq 0.9$
- Total Harmonic Distortion (THD)  $\leq 20\%$

#### LISTING

- UL USA and Canada listed / suitable for damp locations

#### WARRANTY

- 5-year limited warranty



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Revised: 06/19/23



MADE IN THE USA  
BAA Compliant

ORDERING INFORMATION

EXAMPLE: FHB100-8-4L-FSW-DRP8-TP-BPL1.5-DRDM-UNV-1/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
<b>FHB100</b>			<b>4L</b>					<b>DRDM</b>	<b>UNV</b>		
<b>FHB100</b> High Impact Flat Trim Flanged Handball / Racquetball Court LED Luminaire	2 Nom. 2000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens 12 Nom. 12000 Lumens  *Additional Lumen Packages Available	(Blank) Standard  <b>HE</b> High Efficacy (Only 2000 / 4000 / 6000 / 12000 lumens Systems)	<b>4L</b> 4'	<b>FSW</b> Flat Steel White Enamel	<b>DRP8</b> High Impact Clear Prismatic Acrylic Nominal 0.187  <b>PPC8</b> Clear Prismatic Polycarbonate Nominal 0.187	<b>TP</b> Tamper Proof Screws (Hex Socket with Post)  <b>GSKN1</b> One Way Neoprene Gasket  *Leave Blank if Not Specified  <u>Additional Mechanical Options</u>	<b>BPL1.5</b> 1500lm Emergency Battery Pack  <b>WLC(LED RU)</b> EnOcean Wireless Control  *Leave Blank if Not Specified  <u>Additional Electrical Options</u>	<b>DRDM</b> 0-10V Dimming Driver	<b>UNV</b> 120V-277V	<b>1</b> One LED Row (Only 2000 / 4000 / 6000 / 8000 lumens Systems)  <b>2</b> Two LED Rows (Only 12000 lumens System)	<b>830</b> 80+CRI / 3000K Color Temp.  <b>835</b> 80+CRI / 3500K Color Temp.  <b>840</b> 80+CRI / 4000K Color Temp.  <b>850</b> 80+CRI / 5000K Color Temp.  *Additional Color Temp. Available

SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	FHB100-2-4L-FSW-DRP8-DRDM-UNV-1/840	1756 lm	15.7 W	111.7 lm/w	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	FHB100-4-4L-FSW-DRP8-DRDM-UNV-1/ 840	3354 lm	33.3 W	100.6 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	FHB100-6-4L-FSW-DRP8-DRDM-UNV-1/ 840	4794 lm	52.3 W	91.6 lm/W	-20°C / 35°C	3-F32T8	*
8000 Lumens (Nominal)	FHB100-8-4L-FSW-DRP8-DRDM-UNV-1/840	6261 lm	49.7 W	126.0 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	<a href="#">LA-T3281</a>
12000 Lumens (Nominal)	FHB100-12-4L-FSW-DRP8-DRDM-UNV-2/840	9589 lm	104.6 W	91.6 lm/W	-20°C / 35°C	6-F32T8	*

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	FHB100-2HE-4L-FSW-DRP8-DRDM-UNV-1/840	1691 lm	12.0 W	140.5 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	FHB100-4HE-4L-FSW-DRP8-DRDM-UNV-1/ 840	3330 lm	24.8 W	134.2 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	FHB100-6HE-4L-FSW-DRP8-DRDM-UNV-1/ 840	4853 lm	37.9 W	128.1 lm/W	-20°C / 35°C	3-F32T8	*
12000 Lumens (Nominal)	FHB100-12HE-4L-FSW-DRP8-DRDM-UNV-2/ 840	9707 lm	75.8 W	128.1 lm/W	-20°C / 35°C	6-F32T8	*

**NOTE:**  
System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application.

This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.

Additional lumen packages and color temperatures available.



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**OPTICAL OPTIONS**

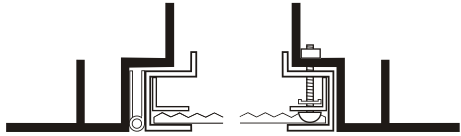
**STANDARD LENSES FOR FHB100**

<b>DRP8</b>	High Impact Clear Prismatic Acrylic, Nominal 0.187 Thickness
<b>PPC8</b>	Clear Prismatic Polycarbonate, Nominal 0.187 Thickness

[CLICK HERE FOR FULL OPTICAL OPTIONS LIST](#)

**DOOR FRAME**

**CROSS SECTION**



**FEATURES**

- Full Length Piano Hinge
- Inner Frame Lens Retainer Rail
- Sealed with Neoprene Gasket
- Inverted Lens

**FS W**

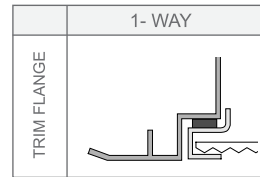
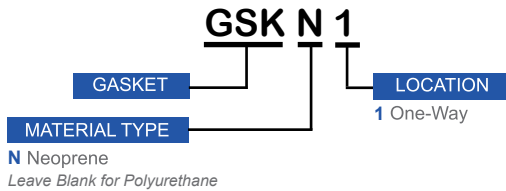
**FINISHES**

- W** White Enamel
- B** Black Enamel

**STYLES**

- FS** Flat Steel

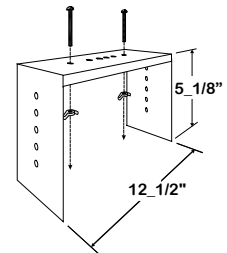
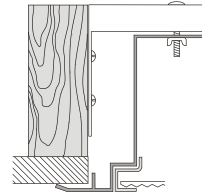
**GASKET**



**ACCESSORIES**

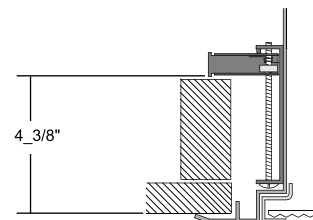
**HS-12\_1/2**

- Hanger Yokes
- Compatible with all types of recessed flanged fixtures
- 1/4 - 20 x 3" machine screws locate into knockout on back of fixture housing
- Two (2) per fixture



**SOJ**

- Swing-Out Jacks
- Compatible with selected types of recessed flanged fixtures
- Spring loaded adjustable mounting bracket for mounting in drywall or plaster type ceiling
- Two (2) brackets on each side of fixture housing
- Four (4) per fixture



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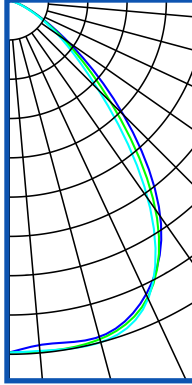
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**PHOTOMETRIC DATA - FHB100 - 4'**

**FHB100-8-4L-FSW-DRP8-DRDM-UNV-1/840**

TEST NO. = LA-T3281  
 LED TYPE = 48 LED MODULE  
 NO. OF MODULE = 2  
 SYSTEM WATT (W) = 49.7  
 CRI ≥ 80  
 L70(Hrs.) ≥ 50,000  
 PHOTOMETRY TYPE = C

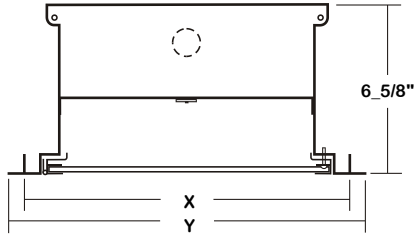


**CANDLEPOWER**

ANGLE	END	45	CROSS
0	3410	3410	3410
5	3351	3415	3408
15	3374	3397	3428
25	3141	3176	3188
35	2554	2473	2343
45	1567	1392	121
55	702	635	579
65	247	231	217
75	70.3	66.5	62.7
85	9.9	8.9	7.9
90	0.5	0.3	0.2
95	0	0	0
105	0	0	0
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

**ZONAL LUMEN SUMMARY**

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	2755	34.5	44.00
0-40	4301	53.8	68.70
0-60	5952	74.4	95.10
0-90	6260	78.3	100.00
90-120	0.10	0.00	0.00
90-150	0.10	0.00	0.00
90-180	0.10	0.00	0.00
0-180	6260	78.3	100



Ceiling Opening X-12 5/8" x 48 1/2"  
 Overall Width By Length Y-14" x 50"

Luminaire Output = 6259.9 lm  
 Luminaire Efficacy = 126 lm/W

**SPACING CRITERION**

ALONG	ACROSS
1.23	1.19

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