



# RECESSED LED

## FHL320 (2X4) SERIES (2X2 AVAILABLE)

TRIM FLANGED WITH HINGE AND LATCH DOOR FRAME LUMINAIRE

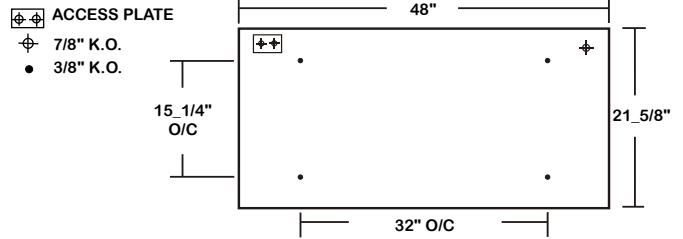
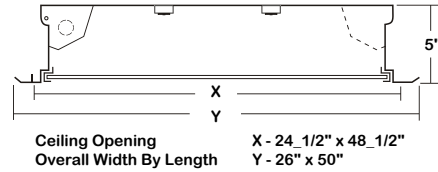


DATE	
JOB	

WWW.LALIGHTING.COM  
626-454-8300

### RECESSED MOUNTED LED LUMINAIRE

### DIMENSIONS



### APPLICATIONS

- Commercial, Office

### 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
- 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 (extruded aluminum in various finishes available) secured by T-hinges and positive spring loaded latches / screwed at each corner
- 18 ga. welded one piece trim flange
- One way polyurethane gasket (additional 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

- Clear prismatic acrylic lens

#### 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



Los Angeles Lighting Mfg. Co.  
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 www.lalighting.com Made in the USA



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Revised: 06/27/24



MADE IN THE USA  
BAA Compliant

**ORDERING INFORMATION**

**EXAMPLE:** FHL320-4-4L-FSW-PA-TP-BPL1.5-DRDM-UNV-2/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
<b>FHL320</b>			<b>4L</b>					<b>DRDM</b>	<b>UNV</b>	<b>2</b>	
<b>FHL320</b> Trim Flanged with Hinge and Latch Door Frame 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  HE High Efficacy	4L 2X4	FSW Flat Steel White Enamel	PA Clear Prismatic Acrylic  PA2 Clear Prismatic Acrylic 0.125  FPA2 Frosted Prismatic Acrylic 0.125  FFWA Flat Frosted White Acrylic	GSKNx Neoprene Gasket  *Leave Blank if Not Specified  <u>Additional Mechanical Options</u>	BPL1.5 1500lm Emergency Battery Pack  WLC(LED RU) EnOcean Wireless Control  *Leave Blank if Not Specified  <u>Additional Electrical Options</u>	DRDM 0-10V Dimming Driver	UNV 120V-277V	2 Two LED Rows	830 80+CRI / 3000K Color Temp.  835 80+CRI / 3500K Color Temp.  840 80+CRI / 4000K Color Temp.  850 80+CRI / 5000K Color Temp.  *Additional Color Temp. Available
Standard options for FHL320 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit <a href="http://www.lalighting.com/resources">www.lalighting.com/resources</a> or contact customer service.											

**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)	FHL320-2-4L-FSW-PA-DRDM-UNV-2/840	1825 lm	15.2 W	120.1 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	FHL320-4-4L-FSW-PA-DRDM-UNV-2/840	3617 lm	31.4 W	115.0 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	<a href="#">LA-T3093-1</a>
6000 Lumens (Nominal)	FHL320-6-4L-FSW-PA-DRDM-UNV-2/840	5304 lm	47.5 W	111.6 lm/W	-20°C / 35°C	3-F32T8	<a href="#">LA-T3094-1</a>
8000 Lumens (Nominal)	FHL320-8-4L-FSW-PA-DRDM-UNV-2/840	6822 lm	64.8 W	105.4 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	<a href="#">LA-T3095-1</a>
12000 Lumens (Nominal)	FHL320-12-4L-FSW-PA-DRDM-UNV-2/840	9844 lm	100.7 W	97.7 lm/W	-20°C / 35°C	6-F32T8, 3-F54T5HO	<a href="#">LA-T3287-1</a>

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)	FHL320-2HE-4L-FSW-PA-DRDM-UNV-2/840	1684 lm	11.8 W	142.7 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	FHL320-4HE-4L-FSW-PA-DRDM-UNV-2/840	3440 lm	24.1 W	142.9 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	FHL320-6HE-4L-FSW-PA-DRDM-UNV-2/840	5204 lm	36.5 W	142.6 lm/W	-20°C / 35°C	3-F32T8	<a href="#">LA-T3272-1</a>
8000 Lumens (Nominal)	FHL320-8HE-4L-FSW-PA-DRDM-UNV-2/840	6773 lm	49.6 W	136.5 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*
12000 Lumens (Nominal)	FHL320-12HE-4L-FSW-PA-DRDM-UNV-2/840	9872 lm	75.8 W	130.3 lm/W	-20°C / 35°C	6-F32T8, 3-F54T5HO	*

**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 FHL320**

<b>PA</b>	Clear Prismatic Acrylic, No Thickness Specified, Female Prisms 3/16 Square Base
<b>PA2</b>	Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
<b>FFWA</b>	Flat Frosted White Acrylic
<b>FPA2</b>	Frosted Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base

**DOOR FRAME**

**CROSS SECTION**



**FS W**

**FINISHES**  
**W** White Enamel  
**B** Black Enamel  
**N** Natural Anodized Aluminum (Only FA / RA / R2 styles)

**STYLES**  
**FS** Flat Steel  
**FA** Flat Extruded Aluminum  
**RA** 5/8" Regressed Extruded Aluminum

**GASKET**

**GSK N 1**

**GASKET**

**MATERIAL TYPE**  
**N** Neoprene  
 Leave Blank for Polyurethane

**LOCATION**  
**1** One-Way  
**2** Two-Way  
**3** Three-Way

	1 - WAY	2 - WAY	3 - WAY
<b>TRIM FLANGE</b>			
	Only with FS / FA / RA style door frames.	Only with FS style door frame.	Only with FS style door frame.

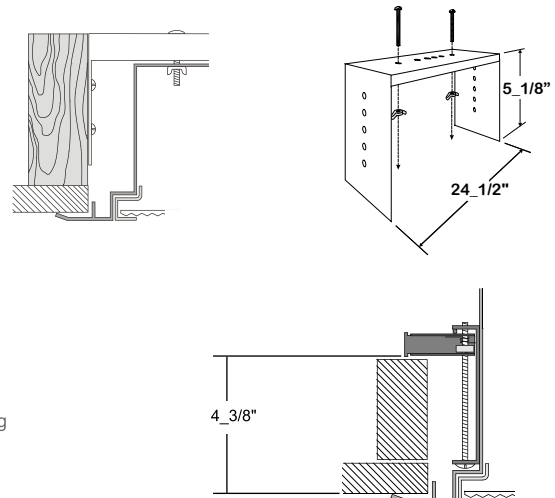
**ACCESSORIES**

**HS-24\_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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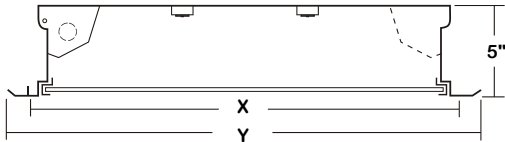
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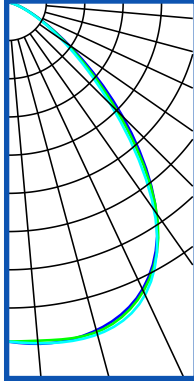
**PHOTOMETRIC DATA - FHL320 SERIES - 4FT**

**FHL320-4-4L-FSW-PA-DRDM-UNV-2/840**

TEST NO. = LA-T3093  
 LED TYPE = 48 LED MODULE  
 NO. OF MODULE = 4  
 SYSTEM WATT (W) = 31.4  
 CRI ≥ 80  
 L70(Hrs.) ≥ 50,000  
 PHOTOMETRY TYPE = C



Ceiling Opening X - 24\_1/2" x 24\_1/2"  
 Overall Width By Length Y - 26" x 26"



CANDLEPOWER			
ANGLE	END	45	CROSS
0	1962	1962	1962
5	1935	1937	1908
15	1910	1927	1936
25	1774	1796	1819
35	1427	1421	1396
45	879	837	785
55	396	378	361
65	143	135	131
75	39	38	37
85	5	5	5
90	0	0	0
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

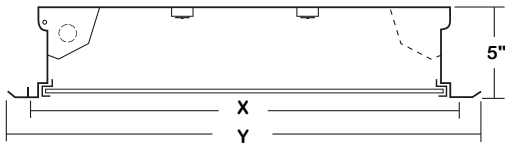
ZONAL LUMEN SUMMARY			
DEGREES	LUMENS	% LAMP	% FIXT
0-30	1561	35	43
0-40	2451	55	68
0-60	3437	77	95
0-90	3616	81	100
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	3616	81	100

Luminaire Output = 3616 lm  
 Luminaire Efficacy = 115.2 lm/W

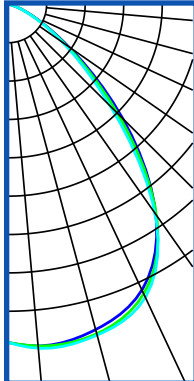
SPACING CRITERION	
ALONG	ACROSS
1.20	1.20

**FHL320-6-4L-FSW-PA-DRDM-UNV-2/840**

TEST NO. = LA-T3094  
 LED TYPE = 48 LED MODULE  
 NO. OF MODULE = 4  
 SYSTEM WATT (W) = 47.5  
 CRI ≥ 80  
 L70(Hrs.) ≥ 50,000  
 PHOTOMETRY TYPE = C



Ceiling Opening X - 24\_1/2" x 24\_1/2"  
 Overall Width By Length Y - 26" x 26"



CANDLEPOWER			
ANGLE	END	45	CROSS
0	2848	2848	2848
5	2866	2826	2817
15	2799	2835	2836
25	2594	2627	2670
35	2086	2084	2054
45	1284	1229	1151
55	584	553	529
65	207	203	191
75	58	56	53
85	7	7	7
90	0	0	0
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

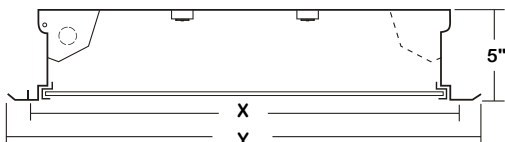
ZONAL LUMEN SUMMARY			
DEGREES	LUMENS	% LAMP	% FIXT
0-30	2289	35	43
0-40	3594	55	68
0-60	5039	77	95
0-90	5302	81	100
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	5302	81	100

Luminaire Output = 5302.3 lm  
 Luminaire Efficacy = 111.6 lm/W

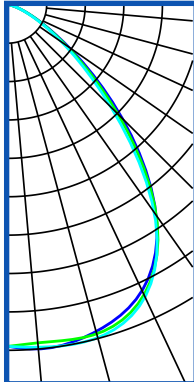
SPACING CRITERION	
ALONG	ACROSS
1.20	1.21

**FHL320-8-4L-FSW-PA-DRDM-UNV-2/840**

TEST NO. = LA-T3095  
 LED TYPE = 48 LED MODULE  
 NO. OF MODULE = 4  
 SYSTEM WATT (W) = 64.8  
 CRI ≥ 80  
 L70(Hrs.) ≥ 50,000  
 PHOTOMETRY TYPE = C



Ceiling Opening X - 24\_1/2" x 24\_1/2"  
 Overall Width By Length Y - 26" x 26"



CANDLEPOWER			
ANGLE	END	45	CROSS
0	3527	3527	3527
5	3595	3584	3596
15	3554	3584	3592
25	3302	3339	3379
35	2703	2689	2656
45	1685	1601	1503
55	765	725	686
65	272	264	249
75	77	72	70
85	9	9	8
90	0	0	0
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

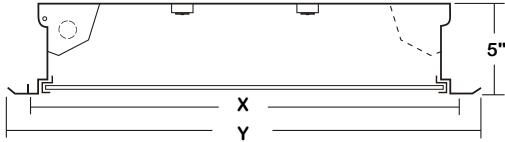
ZONAL LUMEN SUMMARY			
DEGREES	LUMENS	% LAMP	% FIXT
0-30	2903	34	43
0-40	4589	54	67
0-60	6477	76	95
0-90	6822	80	100
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	6822	80	100

Luminaire Output = 6822 lm  
 Luminaire Efficacy = 105.3 lm/W

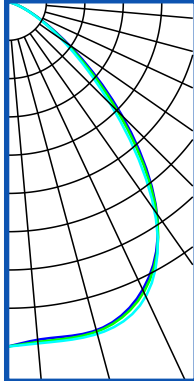
SPACING CRITERION	
ALONG	ACROSS
1.24	1.24

**FHL320-12-4L-FSW-PA-DRDM-UNV-2/840**

TEST NO. = LA-T3287  
 LED TYPE = 48 LED MODULE  
 NO. OF MODULE = 4  
 SYSTEM WATT (W) = 100.7  
 CRI ≥ 80  
 L70(Hrs.) ≥ 50,000  
 PHOTOMETRY TYPE = C



Ceiling Opening X - 24\_1/2" x 24\_1/2"  
 Overall Width By Length Y - 26" x 26"



CANDLEPOWER			
ANGLE	END	45	CROSS
0	5305	5305	5305
5	5272	5322	5271
15	5228	5246	5260
25	4802	4872	4925
35	3880	3879	3797
45	2386	2271	2149
55	1082	1029	985
65	385	370	363
75	106	105	104
85	14	13	13
90	1	0	0
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	% FIXT
0-30	4246	35	43
0-40	6670	54	68
0-60	9352	76	95
0-90	9843	80	100
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	9843	80	100

Luminaire Output = 9843.3 lm  
 Luminaire Efficacy = 97.7 lm/W

SPACING CRITERION	
ALONG	ACROSS
1.20	1.20

