



# ARCHITECTURAL

## LST050 (8FT) SERIES (4' AVAILABLE)

LOUVERED STACK BAFFLED LUMINAIRE

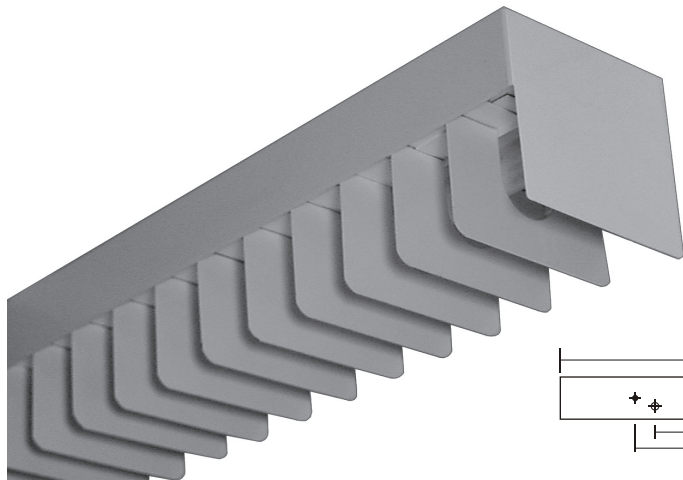
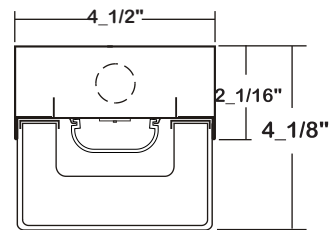


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JOB	

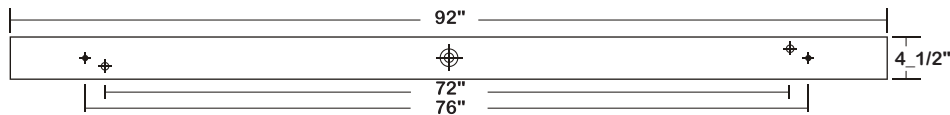
WWW.LALIGHTING.COM  
626-454-8300

### SURFACE / PENDANT MOUNTED LED LUMINAIRE

### DIMENSIONS



◆ 11/16" STEM MTG. K.O.    ⊕ 7/8" K.O.    ⊕ 2" K.O.



### APPLICATIONS

- Library, Corridor, Task Lighting, Retail, Commercial

### FEATURES

- Row mountable
- 0-10V dimming driver standard (See DRIVER OPTIONS for other dimming types)
- Supports California Title 24 compliance

### OPTIONS

- Full customization available upon request
- Additional lumen packages and color temperatures available
- Wireless control options available (See SENSOR OPTIONS for wireless controls)
- Custom colors available (See CUSTOM COLORS For standard and custom options)
- Emergency battery pack available (See BATTERY PACK OPTIONS for battery pack options)
- Cable suspension systems available (See ACCESSORIES for suspension options)
- Tunable white available (2700K-6500K)

### SPECIFICATIONS

#### CONSTRUCTION

- 20 ga. cold rolled steel housing and end caps
- 20 ga. cold rolled steel louver blade and rails

#### FINISH

- Baked white powder coated finish / painted after fabrication / minimum reflectance 90%

#### OPTICAL

- Frosted white acrylic lens (2 per fixture)

#### 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) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

#### LISTING

- UL USA and Canada listed / suitable for damp locations

#### WARRANTY

- 5-year limited warranty



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Headquarters  
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Revised 08-02-19

**WARNING**

ORDERING INFORMATION

EXAMPLE: LST050-8-8L-FRWA-BPL1.5-DRDM-UNV-1/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	COLOR	OPTICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
<b>LST050</b>			<b>8L</b>		<b>FRWA</b>		<b>DRDM</b>	<b>UNV</b>	<b>1</b>	
<b>LST050</b> Rectangular Louvered Stack Baffled LED Luminaire	4 Nom. 4000 Lumens 8 Nom. 8000 Lumens 12 Nom. 12000 Lumens 16 Nom. 16000 Lumens  <i>*Additional Lumen Packages Available</i>	(Blank) Standard  <b>HE</b> High Efficacy (Only 4000 / 8000 / 12000 lumens Systems)	8L 8'	(Blank) Standard White  <b>BLK</b> Matte Black  <b>CS</b> Camaro Silver  <b>BZ</b> Statuary Bronze  See CUSTOM COLORS for Options	<b>FRWA</b> Frosted White Acrylic	<b>BPL1.5</b> Emergency Battery Pack, Nom. 1500 lm  <i>See BATTERY PACK OPTIONS for Options</i>  <b>MSxx</b> Motion Sensor  <b>WLC(LED RU)</b> EnOcean Wireless Control  <i>See SENSOR OPTIONS for Options</i>  *Leave Blank if Not Specified  <i>Additional Electrical Options</i>	<b>DRDM</b> 0-10V Dimming Driver  <i>See DRIVER OPTIONS for Options</i>	<b>UNV</b> 120V-277V  <i>See DRIVER OPTIONS for Options</i>	<b>1</b> One LED Row	<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

\*Additional Colors Available Upon Request

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
4000 Lumens (Nominal)	LST050-4-8L-FRWA-DRDM-UNV-1/840	3113 lm	28.7 W	108.5 lm/W	-20°C / 35°C	2-F32T8	*
8000 Lumens (Nominal)	LST050-8-8L-FRWA-DRDM-UNV-1/840	6219 lm	61.4 W	101.3 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	LA-T3482
12000 Lumens (Nominal)	LST050-12-8L-FRWA-DRDM-UNV-1/840	9240 lm	104.6 W	88.4 lm/W	-20°C / 35°C	6-F32T8	*
16000 Lumens (Nominal)	LST050-16-8L-FRWA-DRDM-UNV-1/840	12228 lm	103.3 W	118.4 lm/W	-20°C / 35°C	8-F32T8, 4-F54T5HO	*

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
4000 Lumens (Nominal)	LST050-4HE-8L-FRWA-DRDM-UNV-1/840	3055 lm	22.5 W	135.9 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
8000 Lumens (Nominal)	LST050-8HE-8L-FRWA-DRDM-UNV-1/840	6035 lm	46.4 W	130.2 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*
12000 Lumens (Nominal)	LST050-12HE-8L-FRWA-DRDM-UNV-1/840	9117 lm	73.7 W	123.8 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.

PERFORMANCE DATA

VIEW PHOTOMETRICS



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**WARNING**

**SENSOR OPTIONS**

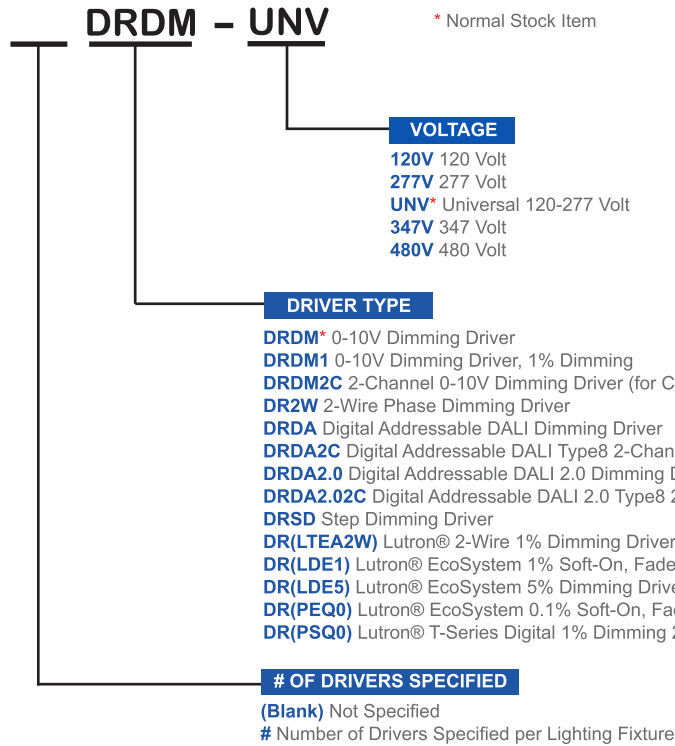


- WLC(LED RU) - EnOcean® LED Relay Zone Controller**
- Supports a single LED fixture or multiple daisy chained LED fixtures
  - Module installed inside lighting fixture
- ESRPU-W-EO - EnOcean® Rocker Switch – Single – Surface Mount**
- Wireless single rocker switch with mounting plate
  - No batteries needed
- EDRPU-W-EO - EnOcean® Rocker Switch – Double – Surface Mount**
- Wireless double rocker switch with mounting plate
  - No batteries needed
- S3054-N300 - EnOcean® Navigan NWC 300U – Commissioning Tool**
- Navigan Wireless Commissioner is used to configure EnOcean controllers & sensors
  - It can be used to define link tables, change parameters/settings, and to edit & store projects
  - Configuration settings can be saved and cloned to enable quick configuration
  - Connectivity is through the NWC 300U USB Stick

- EOSWU-W-EO - EnOcean® Occupancy Sensor – Wall Mount**
- Wireless wall mounted occupancy sensor
  - Solar powered - no batteries needed (coin battery operated in low light conditions)
  - PIR motion sensor with both wide angle (50') and long range (100') options
  - Mounting height: 6-8 feet
- EOSCU-W-EO - EnOcean® Occupancy Sensor – Ceiling Mount**
- Wireless ceiling mounted occupancy sensor
  - Solar powered - no batteries needed (coin battery operated in low light conditions)
  - PIR motion sensor with 360 degree viewing angle lens (34' diameter)
  - Mounting height: 7-10 feet
- ELLSU-W-EO - EnOcean® Light Level Sensor – Ceiling Mount**
- Light Level sensor that measures and reports the level of available natural light
  - Solar powered - no batteries needed (coin battery operated in low light conditions)
  - Enables implementation of daylight harvesting control systems
  - Mounting position: At the ceiling, close to ambient light source

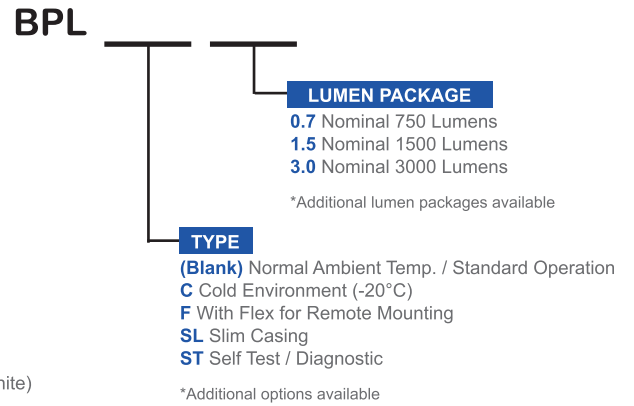
**DRIVER OPTIONS**

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED DRIVER OPTION WORKS WITH THIS FIXTURE.



**BATTERY PACK OPTIONS**

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED BATTERY PACK OPTION WORKS WITH THIS FIXTURE.



**CUSTOM COLORS**

- BLK - Matte Black
- CS - Camaro Silver
- BZ - Statuary Bronze



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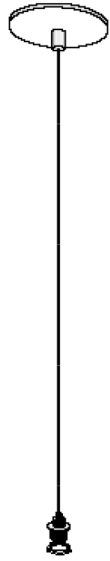
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**ACCESSORIES**

**CANOPY / CABLE SUSPENSION SYSTEM**

- Self-locking, one-step adjustable suspension device with canopies
- Provides a full circumferential 360° swivel action



**433B**

- Blank canopy with cable
- No power cord
- Cable length 48" and 96"
- Max. weight 196 lbs. per set

**433B - 48 W**

**COLOR**

- W** White Standard
- B** Black

**CABLE LENGTH**

48" and 96" Standard  
(other lengths as specified)



**444F**

- Feed-in canopy with straight cord
- Includes power cord
- Cable length 48" and 96"
- Max. weight 196 lbs. per set

**444F-48SW-2C**

**# OF CIRCUIT**

- 2C** Two Circuits
- LV** 0-10V Dimming  
*Leave blank for one circuit*

**COLOR**

- W** White Standard
- B** Black

**CORD TYPE**

- S** Straight Cord

**CABLE LENGTH**

48" and 96" Standard  
(other lengths as specified)



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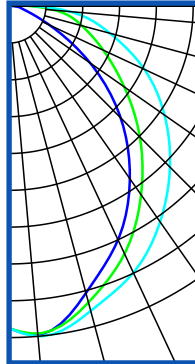
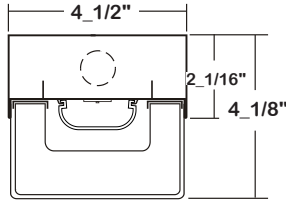
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**PHOTOMETRIC DATA - LST050\_8FT SERIES**

**LST050-8-8L-FRWA-DRDM-UNV-1/840**

TEST NO.=LA-T3482  
 LED TYPE= 48 LED MODULE  
 NO. OF MODULE=4  
 SYSTEM WATT (W)=61.4  
 CRI=>80  
 L70(Hrs.)=50,000  
 PHOTOMETRY TYPE=C



**CANDLEPOWER**

ANGLE	END	45	CROSS
0	2277	2277	2277
5	2327	2319	2339
15	2083	2155	2219
25	1805	1915	2066
35	1467	1608	1845
45	1089	1287	1591
55	667	972	1323
65	279	715	1036
75	102	516	720
85	53	314	415
90	23	154	193
95	16	66	54
105	10	46	21
115	6	26	13
125	3	12	7
135	1	6	4
145	0	3	2
155	0	1	1
165	0	0	1
175	0	0	0
180	0	0	0

**ZONAL LUMEN SUMMARY**

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1723	21	28
0-40	2748	33	44
0-60	4648	56	75
0-90	6079	74	98
90-120	127	2	2
90-150	140	2	2
90-180	140	2	2
0-180	6219	75	100

Luminaire Output = 6219.2 lumens  
 Luminaire Efficacy = 101.3 lm/W  
 Luminaire Efficiency = 75.44%

**SPACING CRITERION**

ALONG	ACROSS
1.09	1.27



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