



# ARCHITECTURAL

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

LOUVERED STACK BAFFLED LUMINAIRE

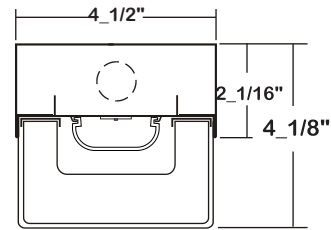
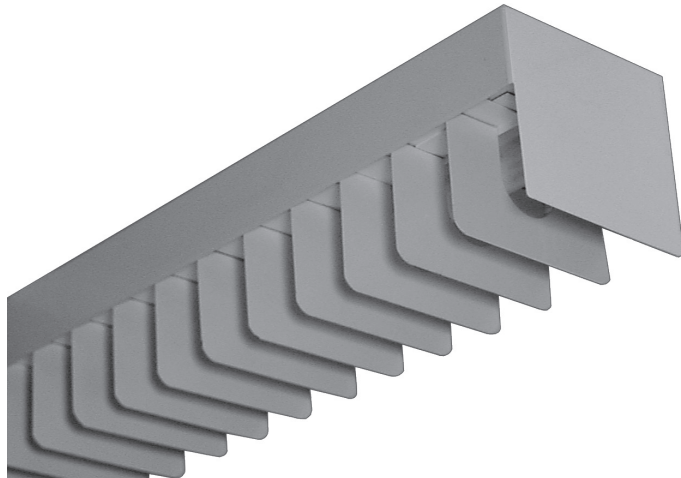


DATE	
JOB	

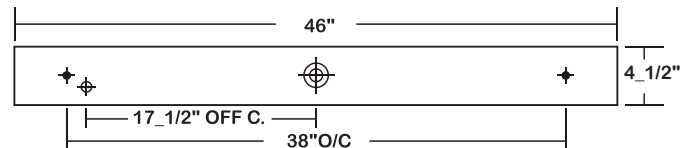
WWW.LALIGHTING.COM  
626-454-8300

### 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

#### 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  
10141 Olney Street  
El Monte, CA 91731  
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Revised 08-02-19  
**WARNING**

ORDERING INFORMATION

EXAMPLE: LST050-6-4L-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>4L</b>		<b>FRWA</b>		<b>DRDM</b>	<b>UNV</b>	<b>1</b>	
<b>LST050</b> Rectangular Louvered Stack Baffled LED Luminaire	2 Nom. 2000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens  <b>*Additional Lumen Packages Available</b>	(Blank) Standard  <b>HE</b> High Efficacy (Only 2000 / 4000 / 6000 lumens Systems)	<b>4L</b> 4'	(Blank) Standard White  <b>BLK</b> Matte Black  <b>CS</b> Camaro Silver  <b>BZ</b> Statuary Bronze  See <b>CUSTOM COLORS</b> for Options  *Additional Colors Available Upon Request	<b>FRWA</b> Frosted White Acrylic	<b>BPL1.5</b> Emergency Battery Pack, Nom. 1500 lm  See <b>BATTERY PACK OPTIONS</b> for Options  <b>MSxx</b> Motion Sensor  <b>WLC(LED RU)</b> EnOcean Wireless Control  See <b>SENSOR OPTIONS</b> for Options  *Leave Blank if Not Specified  Additional Electrical Options	<b>DRDM</b> 0-10V Dimming Driver  See <b>DRIVER OPTIONS</b> for Options	<b>UNV</b> 120V-277V  See <b>DRIVER OPTIONS</b> for Options	<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

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)	LST050-2-4L-FRWA-DRDM-UNV-1/840	1691 lm	15.8 W	107.2 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	LST050-4-4L-FRWA-DRDM-UNV-1/840	3229 lm	31.2 W	103.5 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	LA-T3481
6000 Lumens (Nominal)	LST050-6-4L-FRWA-DRDM-UNV-1/840	4616 lm	52.4 W	88.2 lm/W	-20°C / 35°C	3-F32T8	*
8000 Lumens (Nominal)	LST050-8-4L-FRWA-DRDM-UNV-1/840	6242 lm	52.9 W	117.9 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*

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)	LST050-2HE-4L-FRWA-DRDM-UNV-1/840	1696 lm	12.6 W	134.7 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	LST050-4HE-4L-FRWA-DRDM-UNV-1/840	3015 lm	23.2 W	130.1 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	LST050-6HE-4L-FRWA-DRDM-UNV-1/840	4555 lm	36.8 W	123.7 lm/W	-20°C / 35°C	3-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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**SENSOR OPTIONS**

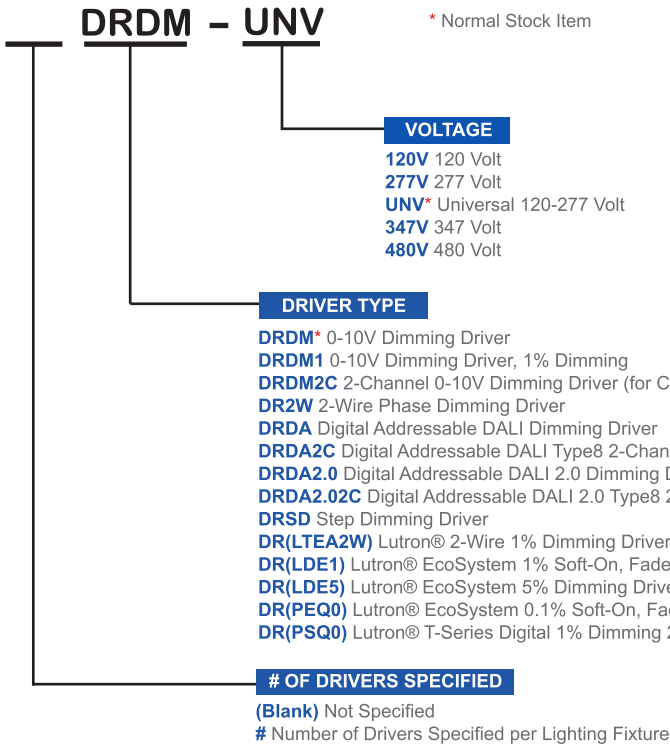


- WLC(LED RU) - EnOcean® LED Relay Zone Controller**
- Supports a single LED fixture or multiple daisy chained LED fixtures
  - Module installed inside lighting fixture
- ESRPU-W-EO - EnOcean® Rocker Switch – Single – Surface Mount**
- Wireless single rocker switch with mounting plate
  - No batteries 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

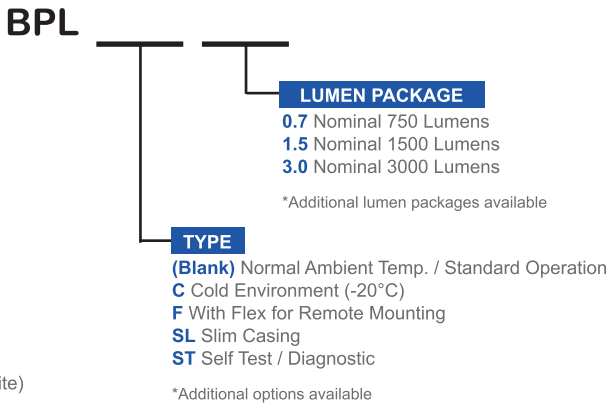
**DRIVER OPTIONS**

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

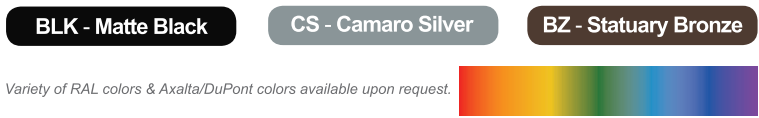


**BATTERY PACK OPTIONS**

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**CUSTOM COLORS**



Variety of RAL colors & Axalta/DuPont colors available upon request.



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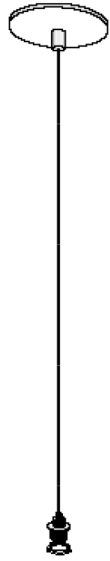
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**ACCESSORIES**

**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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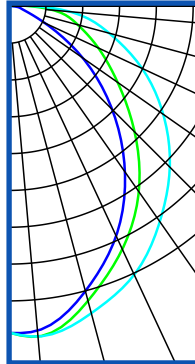
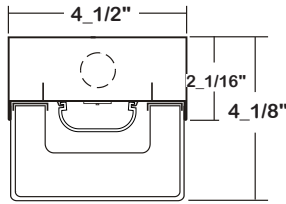
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**PHOTOMETRIC DATA - LST050\_4FT SERIES**

**LST050-4-4L-FRWA-DRDM-UNV-1/840**

TEST NO.=LA-T3481  
 LED TYPE= 48 LED MODULE  
 NO. OF MODULE=2  
 SYSTEM WATT (W)=31.2  
 CRI=>80  
 L70(Hrs.)=50,000  
 PHOTOMETRY TYPE=C



**CANDLEPOWER**

ANGLE	END	45	CROSS
0	1227	1227	1227
5	1221	1244	1245
15	1102	1140	1190
25	945	1000	1108
35	749	842	981
45	536	657	847
55	323	489	699
65	130	362	543
75	50	260	381
85	27	161	222
90	11	80	104
95	8	37	29
105	6	26	12
115	3	15	7
125	2	7	4
135	1	4	2
145	0	2	1
155	0	1	1
165	0	0	0
175	0	0	0
180	0	0	0

**ZONAL LUMEN SUMMARY**

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	911	21	28
0-40	1447	34	45
0-60	2418	56	75
0-90	3151	74	98
90-120	70	2	2
90-150	77	2	2
90-180	77	2	2
0-180	3229	75	100

Luminaire Output = 3228.8 lumens  
 Luminaire Efficacy = 103.5 lm/W  
 Luminaire Efficiency = 75.37%

**SPACING CRITERION**

ALONG	ACROSS
1.05	1.26



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