



# 2x4 LPASC

## Low Profile Recessed Troffer



### OVERVIEW

Lumen Range (lm)	2,900 - 9,250
CCT (K)	3000, 3500, 4000, 5000 Tunable White
Wattage Range (W)	25 - 75
Efficacy Range (LPW)	119 - 136
Weight lbs (kg)	21.5 (9.7)

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rigid housing is die-formed 22-gauge cold-rolled steel for consistency and strength.
- Luminaire comes equipped with integral NEC-compliant earthquake clips.
- Ultra-slim (< 4") luminaire height and light-weight design effectively targets a broad range of plenum/wall spaces and allows for easy installation.
- Thermally optimized housing allows for direct insulation contact (IC rated).
- Luminaire is treated with phosphate rust inhibitor prior to powder coating. Reflecting surfaces are coated with high-reflectance (minimum 92%) white polyester powder.
- Luminaire is proudly manufactured in the U.S.A

### Optical System

- High-transmission diffuse acrylic radial lens eliminates bright spots from individual LEDs and provides high vertical illuminance and visual comfort.
- Tunable White with digital control option with a CCT range of 2700K - 6500K
- State of the art LED chips for reliability and extended lumen maintenance.

### Electrical

- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (1% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) or optional High Voltage (347 VAC) 50/60 Hz input.

- L80 Calculated Life: >100k Hours (See lumen maintenance table on Page 3)
- Total harmonic distortion (THD): <20%
- Power factor: > 0.95
- Sensor-ready drivers available; consult factory for details.
- Optional 120-277VAC integral emergency battery backup is available to meet critical life-safety standby lighting requirements. A test switch/indicator button is installed in the housing for ease of visibility and maintenance.

### Controls

- Available with AirLink™ Blue. AirLink Blue (ALB) is a low-power wireless Bluetooth mesh control system. ALB provides significant energy savings while ensuring code compliance and security. The integrated fixture sensor module can control multiple luminaires based on motion or daylight and events can be scheduled based on time of day or an astronomical clock.
- Available with 3rd party controls. Check out the ordering guide for compatibility.
- Tunable White powered by LSI Airlink™ Blue offers wireless digital CCT tuning between 2700K and 6500K. Tunable White technology provides ultimate flexibility and control to the end user and future-proofs any space.
- Stand-alone integral passive infrared sensor (IMS1) enables motion and daylight sensing. Optional IR remote (REM-SOLO) makes configuration changes easy.
- LSI AirLink™ controls featuring Lutron Clear

Connect makes each luminaire controllable, creating a wireless communication network with other AirLink™ control devices such as dimmers, switches, occupancy sensors and photocontrols. The integrated sensor is both a passive infrared motion detector and daylight harvester.

### Installation

- Luminaire installs by lifting it through grid ceiling and resting it on the T-bars.
- Luminaire installs onto standard 15/16" and narrow 9/16" T-grid ceiling systems.
- An accessory flange kit is available for installing into drywall or plaster.

### Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsiindustries.com/resources/terms-and-warranty.aspx> for more information.

### Listings

- Listed to UL® 1598 and UL® 8750.
- DesignLights Consortium® (DLC) Premium and/or standard. Not all versions of this product may be DLC listed. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which SKUs are listed.
- Meets Buy American Act (BAA) requirements.
- Title 24 Compliant; see local ordinance for qualification information.
- IC Rated for direct contact with building insulation.
- Suitable for damp locations.





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## ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **LPASC24 LED 80L UNV DIM1 TW ALBC U**

Family/Size	LED Gen	Lumen Package*	Voltage	Driver	Color Temperature	Controls	Options	Packaging
LPASC24 - (2x4)	LED	30L - 3,000 35L - 3,500 40L - 4,000 48L - 4,800 55L - 5,500 60L - 6,000 65L - 6,500 72L - 7,200 80L - 8,000 85L - 8,500 90L - 9,000	UNV - 120-277VAC HV - 347VAC <sup>1</sup>	DIM1 - Dims to 1% (0-10 volt dimming) <sup>1</sup>  LDE1 - Hi-Lume 1% (with Soft on Fade to Black) <sup>1</sup>  L3D - Lutron Hi-Lume 1% <sup>1</sup>  SR - Sensor Ready <sup>3,5</sup>	30 - 3000K <sup>3,4</sup> 35 - 3500K 40 - 4000K 50 - 5000K	BLANK - (No Controls)  IMS1 - Integral PIR Motion and Daylight sensor  ALBCSD - Integrated AirLink™ Blue Wireless Motion and Daylight Harvesting Sensor  WSCS - Wattstopper LMFS-601 integrated wireless PIR motion/daylight sensor  AVC - Avi-on LVFA integrated wireless controller single channel  AVCM - Avi-on IFA integrated wireless controller 5 Amp 120-277VAC  ALDCS - AirLink/Lutron Integral Fixture Control with motion and daylighting sensing  ALDC - AirLink/Lutron Integral Fixture Control (RF only)	EM10- 10 Watt Emergency Battery Backup  FC1 - 6' 3/8" (3) #18 Leads (For use in Non-Dimming Applications)  FC15D - 6' 3/8" (5) #18 Leads (For use in Dimming Applications)  FC16DEM - 6' 3/8" (6) #18 Leads (For use in Dimming & EM Applications)  90C - 90 CRI <sup>3,4</sup>  AR - Air Return	U - Single Pack
		Custom Lumen Packages <sup>6</sup>						
LPASC24 - (2x4)	LED	80L - 8,000	UNV - 120-277VAC	DIM1 - Dims to 1% (0-10 volt dimming) <sup>1</sup>	TW <sup>3,7</sup> - Tunable White	ALBC <sup>7</sup>	90C - 90 CRI <sup>3,4</sup>	U - Single Pack

### Accessory Ordering Information

Description	Order Number
Flange Kit 2x4	FK24
IR remote configuration tool for IMS1	REM-SOLO
SMK24 - 2x4 Surface Mount Kit	772278

#### Integral PIR Motion and Daylight Sensor (IMS1)

Low profile sensor provides bi-level control based on motion and/or daylight. All control parameters are adjustable using the IR remote (sold separately).

[Click here to learn more about IMS1](#)

### AirLink™ Control Accessories Order as separate catalog number.

Wireless switches	Catalog number	Part Number	Wireless Occupancy Sensors	Part Number
On/Off & Raise Lower	ALWS 3B-(color)-KIT <sup>2</sup>	6241032	Wireless 360° 400 ft <sup>2</sup> , Ceiling Mount	624094
			Wireless 180° 3000 ft <sup>2</sup> , Wall Mount	632617
Wireless Photocell controls	ALCM-W-PC	624090	Wireless 90° 2500 ft <sup>2</sup> , Corner Mount	624096
			Wireless, Hallway 150 ft Length	632620
<b>Commission Laser Kit</b>				
(See Laser warnings)		634574		

#### FOOTNOTES:

- 1- Not available with ALDCS Control option.
- 2- Consult factory for other colors
- 3- Consult Factory for lead times.
- 4- Consult factory for DLC qualification information.
- 5- Required with ALDCS Control option.
- 6- Custom lumen packages available, please consult factory. Values are within industry standard tolerances and not DLC listed.
- 7- Only available with 120-277VAC input





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## PERFORMANCE

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DELIVERED LUMENS									
Lumen Package	3000K CCT		3500K CCT		4000K CCT		5000K CCT		Wattage
	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
30L	2,935	119.3	3,039	123.5	3,044	123.7	3,227	131.2	24.6
35L	3,411	118.0	3,532	122.2	3,538	122.4	3,751	129.8	28.9
40L	3,929	123.5	4,068	127.9	4,075	128.1	4,320	135.9	31.8
48L	4,686	122.0	4,852	126.4	4,860	126.6	5,153	134.2	38.4
55L	5,370	121.5	5,561	125.8	5,570	126.0	5,905	133.6	44.2
60L	5,842	120.7	6,050	125.0	6,060	125.2	6,425	132.7	48.4
65L	6,307	119.9	6,531	124.2	6,542	124.4	6,936	131.9	52.6
72L	7,037	118.1	7,287	122.3	7,299	122.5	7,739	129.8	59.6
80L	7,748	116.5	8,023	120.6	8,036	120.8	8,520	128.1	66.5
85L	7,962	114	8,350	120	8,537	122	8,764	126	70
90L	8,406	113	8,816	118	9,013	121	9,252	124	75

\*LED Chips are frequently updated therefore values are nominal.

ELECTRICAL DATA*							
Lumens	Watts	120V	208V	240V	277V	347V	
30L	24.6	0.205	0.118	0.103	0.089	0.071	
35L	28.9	0.241	0.139	0.120	0.104	0.083	
40L	31.8	0.265	0.153	0.133	0.115	0.092	
48L	38.4	0.320	0.185	0.160	0.139	0.111	
55L	44.2	0.368	0.213	0.184	0.160	0.127	
60L	48.4	0.403	0.233	0.202	0.175	0.139	
65L	52.6	0.438	0.253	0.219	0.190	0.152	
72L	59.6	0.497	0.287	0.248	0.215	0.172	
80L	66.5	0.554	0.320	0.277	0.240	0.192	
85L	70	0.60	0.30	0.30	0.30	0.20	
90L	75	0.60	0.40	0.30	0.30	0.20	

ELECTRICAL DATA* - TUNABLE WHITE						
Lumens	Watts	120V	208V	240V	277V	
80L	63.0	0.53	0.30	0.26	0.23	

\*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup>					
Ambient Temp C	0 hrs. <sup>2</sup>	25K hrs. <sup>2</sup>	50K hrs. <sup>3</sup>	75K hrs. <sup>3</sup>	100K hrs. <sup>3</sup>
25	100%	95.21%	92.70%	90.26%	87.89%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> - TUNABLE WHITE					
Ambient Temp C	0 hrs. <sup>2</sup>	25K hrs. <sup>2</sup>	50K hrs. <sup>3</sup>	75K hrs. <sup>3</sup>	100K hrs. <sup>3</sup>
25	100%	95%	91%	87%	83%

SCALING FACTORS - TUNABLE WHITE		
CCT	Lumens	Wattage
2700K	0.95	1.05
3000K	0.97	1.02
3500K	0.99	1.01
4000K	1.00	1.00
5000K	1.00	1.01
6500K	0.98	1.05

- 1 - Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
- 2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).
- 3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).





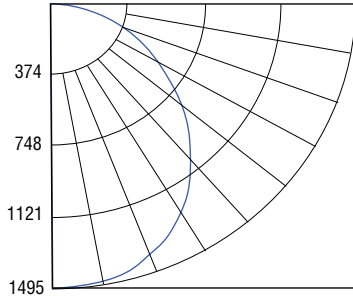
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## PHOTOMETRICS

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All published luminaire photometric testing performed to IESNA LM-79 standards by a certified laboratory. For complete specifications and IES files, see website. See <http://www.lsi-industries.com/products/led-lighting-solutions.aspx> for detailed photometric data.

### LPASC24 LED 48L 40



ZONAL LUMEN SUMMARY		
Zone	Lumens	% Luminaire
0-20	545.4	11.2%
0-30	1,174.9	24.2%
0-40	1,950.0	40.1%
0-60	3,544.1	72.9%
0-80	4,665.2	96.0%
0-90	4,860.3	100.0%
10-90	4,721.0	97.1%
20-40	1,404.5	28.9%
20-50	2,226.8	45.8%
40-70	2,240.1	46.1%
60-80	1,121.0	23.1%
70-80	475.1	9.8%
80-90	195.1	4.0%
90-180	0	0
0-180	4,860.3	100

## PRODUCT DIMENSIONS

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