



2x2 LPASC

Low Profile Recessed Troffer



OVERVIEW	
Lumen Range (lm)	2,000 - 8,300
CCT (K)	3000, 3500, 4000, 5000 Tunable White
Wattage Range (W)	18 - 69
Efficacy Range (LPW)	111 - 128
Weight lbs (kg)	10.5 (4.7)

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

- 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. LSI's tried and tested AirLink™ Blue interface makes it the simplest yet most powerful system in its class. With additional capabilities for grouping, zoning and scene controls, the system can be combined with occupancy sensing and daylight harvesting to maximize energy savings and meet applicable code.
- Stand-alone integral passive infrared sensor (IMSI) 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 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: **LPASC22 LED 55L UNV DIM1 TW ALBC U**

Family/Size	LED Gen	Lumen Package*	Voltage	Driver	Color Temperature	Controls	Options	Packaging	
LPASC - (2x2)	LED	20L - 2,000	UNV - 120-277VAC HV - 347VAC ¹	DIM1 - Dims to 1% (0-10 volt dimming) ¹ LDE1 - Hi-Lume 1% (with Soft on Fade to Black) ¹ L3D - Lutron Hi-Lume 1% ¹ LDE5 - Lutron 5-Series ¹ SR - Sensor Ready ^{3,5}	30 - 3000K ^{3,4} 35 - 3500K 40 - 4000K 50 - 5000K	BLANK - (No Controls) IMS1 - Integral PIR Motion and Daylight sensor 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 ^{3,4}	U - Single Pack	
		25L - 2,500							
		32L - 3,200							
		38L - 3,800							
		45L - 4,500							
		50L - 5,000							
		55L - 5,500							
		65L - 6,500							
		70L - 7,000							
		75L - 7,500							
80L - 8,000									
		Custom Lumen Packages ⁶							
LPASC22 - (2x2)	LED	55L - 5,500	UNV - 120-277VAC	DIM1 - Dims to 1% (0-10 volt dimming) ¹	TW ^{1,7} - Tunable White	ALBC ⁷	90C - 90 CRI ^{3,4}	U - Single Pack	

Accessory Ordering Information

Description	Order Number
Flange Kit 2x2	FK22
IR remote configuration tool for IMS1	REM-SOLO

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

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 ²	6241032	Wireless 360° 400 ft ² , Ceiling Mount	624094
			Wireless 180° 3000 ft ² , Wall Mount	632617
Wireless Photocell controls	ALCM-W-PC	624090	Wireless 90° 2500 ft ² , Corner Mount	624096
			Wireless, Hallway 150 ft Length	632620
Commission Laser Kit				
(See Laser warnings)		634574		





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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	
20L	2017	110.8	2134	117.3	2092	114.9	2231	122.6	18.2
25L	2460	110.8	2603	117.3	2552	115.0	2722	122.6	22.2
32L	3115	110.5	3296	116.9	3231	114.6	3446	122.2	28.2
39L	3644	111	3845	118	3909	120	4051	124	33
45L	4222	111	4454	117	4529	119	4694	123	38
50L	4673	115	4930	122	5013	124	5196	128	41
55L	5154	114	5438	121	5529	123	5730	127	45
60L	5610	114	5919	120	6018	122	6237	126	49
65L	6059	113	6393	119	6500	121	6737	126	54
70L	6550	112	6911	118	7027	120	7283	124	59
75L	6996	110	7381	116	7505	118	7778	123	63
80L	7476	109	7888	114	8020	116	8312	121	69

*LED Chips are frequently updated therefore values are nominal.

ELECTRICAL DATA*							
Lumens	Watts	120V	208V	240V	277V	347V	
20L	18.2	0.152	0.088	0.076	0.066	0.052	
25L	22.2	0.185	0.107	0.093	0.080	0.064	
32L	28.2	0.235	0.136	0.118	0.102	0.081	
39L	33	0.3	0.2	0.1	0.1	0.1	
45L	38	0.3	0.2	0.2	0.1	0.1	
50L	41	0.3	0.2	0.2	0.1	0.1	
55L	45	0.4	0.2	0.2	0.2	0.1	
60L	49	0.4	0.2	0.2	0.2	0.1	
65L	54	0.4	0.3	0.2	0.2	0.2	
70L	59	0.5	0.3	0.2	0.2	0.2	
75L	64	0.5	0.3	0.3	0.2	0.2	
80L	69	0.6	0.3	0.3	0.2	0.2	

ELECTRICAL DATA (AMPS)* - TUNABLE WHITE

Lumens	Watts	120V	208V	240V	277V
55L	46	0.38	0.22	0.19	0.16

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

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

RECOMMENDED LUMEN MAINTENANCE¹

Ambient Temp C	0 hrs. ²	25K hrs. ²	50K hrs. ³	75K hrs. ³	100K hrs. ³
25	100%	95.02%	92.33%	89.71%	87.17%

RECOMMENDED LUMEN MAINTENANCE¹ - TUNABLE WHITE

Ambient Temp C	0 hrs. ²	25K hrs. ²	50K hrs. ³	75K hrs. ³	100K hrs. ³
25	99%	94%	89%	85%	81%

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).

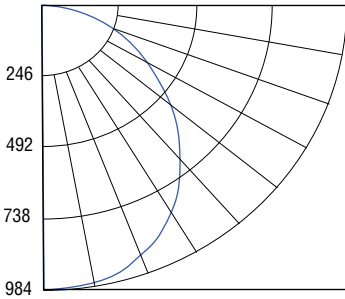




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PHOTOMETRICS

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LPASC22 LED 32L 40

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See <http://www.lsi-industries.com/products/led-lighting-solutions.aspx> for detailed photometric data.

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Luminaire
0-20	362.0	11.0
0-30	783.0	23.8
0-40	1,307.2	39.8
0-60	2,411.5	73.4
0-80	3177.7	96.8
0-90	3,283.2	100.0
10-90	3,190.9	97.2
20-40	945.2	28.8
20-50	1,509.8	46.0
40-70	1,557.3	47.4
60-80	766.2	23.3
70-80	313.1	9.5
80-90	105.5	3.2
90-180	0.0	0
0-180	3,283.2	100.0

PRODUCT DIMENSIONS

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