



1x4 LPASC

Low Profile Recessed Troffer



OVERVIEW

Lumen Range (lm)	1,950 - 8,300
CCT (K)	3000, 3500, 4000, 5000 Tunable White
Wattage Range (W)	16- 63
Efficacy Range (LPW)	119 - 139
Weight lbs (kg)	14.5 (6.6)

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 (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(R) 1598 and UL(R) 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.





1x4 LPASC Low Profile Recessed Troffer

ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **LPASC14 LED 75L UNV DIM1 TW ALBC U**

Family/Size	LED Gen	Lumen Package*	Voltage	Driver	Color Temperature	Controls	Options	Packaging
LPASC14 - (1x4)	LED	20L - 2,000	UNV - 120-277VAC HV - 347VAC ¹	DIM1 - Dims to 1% (0-10 volt dimming) ¹	30 - 3000K ^{3,4}	BLANK - (No Controls)	EM10- 10 Watt Emergency Battery Backup	U - Single Pack
		25L - 2,500						
		30L - 3,000						
		35L - 3,500						
		40L - 4,000						
		45L - 4,500						
		50L - 5,000						
		55L - 5,500						
		65L - 6,500						
		70L - 7,000						
		75L - 7,500						
		80L - 8,000						
		L3D - Lutron Hi-Lume 1% ¹	40 - 4000K	ALBCSD - Integrated AirLink™ Blue Wireless Motion and Daylight Harvesting Sensor	FC15D - 6' 3/8" (5) #18 Leads (For use in Dimming Applications)			
		SR - Sensor Ready ^{3,5}	50 - 5000K	WSCS - Wattstopper LMFS-601 integrated wireless PIR motion/daylight sensor	FC16DEM - 6' 3/8" (6) #18 Leads (For use in Dimming & EM Applications)			
				AVC - Avi-on LVFA integrated wireless controller single channel	90C - 90 CRI ^{3,4}			
				AVCM - Avi-on IFA integrated wireless controller 5 Amp 120-277VAC	AR - Air Return			
				ALDCS - AirLink/Lutron Integral Fixture Control with motion and daylighting sensing				
				ALDC - AirLink/Lutron Integral Fixture Control (RF only)				
LPASC14 - (1x4)	LED	75L - 7,500	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 1x4	FK14
IR remote configuration tool for IMS1	REM-SOLO
SMK14 - 1x4 Surface Mount Kit	772275

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](#)

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.

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		



1x4 LPASC Low Profile Recessed Troffer

PERFORMANCE

[Back to Quick Links](#)

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	1,946	119.4	1,963	120.4	2,018	123.8	2,152	132.0	16.3
25L	2,435	120.0	2,457	121.0	2,526	124.4	2,694	132.7	20.3
30L	2,892	120.5	2,918	121.6	3,000	125.0	3,199	133.3	24.0
35L	3,381	119.9	3,411	121.0	3,507	124.4	3,740	132.6	28.2
40L	3,890	119.0	3,925	120.0	4,035	123.4	4,303	131.6	32.7
45L	4,358	125.6	4,397	126.7	4,520	130.3	4,820	138.9	34.7
50L	4,887	124.0	4,931	125.1	5,069	128.7	5,406	137.2	39.4
55L	5,373	123.5	5,421	124.6	5,573	128.1	5,943	136.6	43.5
60L	5,794	122.5	5,846	123.6	6,010	127.1	6,409	135.5	47.3
65L	6,284	122.3	6,340	123.4	6,518	126.8	6,951	135.2	51.4
70L	6,819	120.5	6,880	121.6	7,073	125.0	7,543	133.3	56.6
75L	7,280	119.7	7,345	120.8	7,551	124.2	8,052	132.4	60.8
80L	7,510	118.5	7,578	119.5	7,790	122.9	8,307	131.0	63.4

*LED Chips are frequently updated therefore values are nominal.

ELECTRICAL DATA*							
Lumens	Watts	120V	208V	240V	277V	347V	
20L	16.3	0.136	0.078	0.068	0.059	0.047	
25L	20.3	0.169	0.098	0.085	0.073	0.059	
30L	24.0	0.200	0.115	0.100	0.087	0.069	
35L	28.2	0.235	0.136	0.118	0.102	0.081	
40L	32.7	0.273	0.157	0.136	0.118	0.094	
45L	34.7	0.289	0.167	0.145	0.125	0.100	
50L	39.4	0.328	0.189	0.164	0.142	0.114	
55L	43.5	0.363	0.209	0.181	0.157	0.125	
60L	47.3	0.394	0.227	0.197	0.171	0.136	
65L	51.4	0.428	0.247	0.214	0.186	0.148	
70L	56.6	0.472	0.272	0.236	0.204	0.163	
75L	60.8	0.507	0.292	0.253	0.219	0.175	
80L	63.4	0.528	0.305	0.264	0.229	0.183	

ELECTRICAL DATA* - TUNABLE WHITE					
Lumens	Watts	120V	208V	240V	277V
75L	63	0.53	0.30	0.26	0.23

*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
6500K	0.98	1.05

RECOMMENDED LUMEN MAINTENANCE ¹					
Ambient Temp C	0 hrs. ²	25K hrs. ²	50K hrs. ³	75K hrs. ³	100K hrs. ³
25	100%	94.49%	91.48%	88.47%	85.56%

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

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).





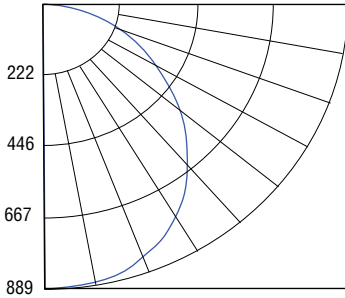
1x4 LPASC Low Profile Recessed Troffer

PHOTOMETRICS

[Back to Quick Links](#)

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.

LPASC14 LED 30L 40



ZONAL LUMEN SUMMARY		
Zone	Lumens	% Luminaire
0-20	327.6	10.8
0-30	712.9	23.5
0-40	1,199.4	39.6
0-60	2,242.9	74.0
0-80	2,945.6	97.2
0-90	3,030.7	100.0
10-90	2,947.5	97.3
20-40	871.7	28.8
20-50	1,403.4	46.3
40-70	1,468.7	48.5
60-80	702.7	23.2
70-80	277.5	9.2
80-90	85.1	2.8
90-180	0.0	0
0-180	3,030.7	100.0

PRODUCT DIMENSIONS

[Back to Quick Links](#)

