



# 2x2 LPEC

## Low Profile Recessed Troffer



OVERVIEW	
Lumen Range (lm)	1950 - 8850
CCT (K)	3000, 3500, 4000, 5000
Wattage Range (W)	17 - 65
Efficacy Range (LPW)	116 - 141
Weight lbs (kg)	11 (5)

### QUICK LINKS

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

### FEATURES & SPECIFICATIONS

#### Construction

- Rigid housing is die-formed 20-gauge cold rolled steel for consistency and strength.
- End plates come equipped with integral NEC compliant earthquake clips.
- Ultra-slim < 4" luminaire height and lightweight design effectively target a broad range of plenum/wall spaces and allow for easy installations.
- Luminaire is proudly manufactured in the U.S.
- Luminaire is painted after fabrication following treatment with phosphate rust inhibitor. Finish coating of housing reflecting surfaces is with high-reflectance white (minimum 92%) polyester powder.

#### Optical System

- High transmission impact resistant diffuse acrylic radius lens eliminates bright spots from individual LED's and provides high vertical illumination and visual comfort.

#### Electrical

- High-performance programmable driver features overvoltage, under voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10 volt dimming (1% - 100%) standard.
- Standard Universal voltage (120-277 Vac) Input 50/60 Hz or optional High voltage (347Vac).

- L70 Calculated Life: >100k Hours (See Lumen Maintenance on Page 2)
- Total harmonic distortion: <20%
- Power factor: >.95
- Input power stays constant over life.
- Optional 120v-277v integral emergency battery pack is available to meet critical life-safety lighting requirements. A test switch/indicator button is installed in the housing for ease of maintenance.

#### Controls

- LSI AirLink™ controls featuring Lutron Clear Connect makes each luminaire controllable, creating a wireless communication with other AirLink™ control devices such as dimmers, switches, occupancy sensors and photocontrols. The integrated sensor is both a passive infrared motion detector and photocell.
- Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.
- Sensor Ready Drivers available; consult factory for limitations.

#### 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 LED Fixtures carry a 5-year warranty.
- 1 Year warranty on optional Battery Back Up. Test regularly in accordance with local codes.

#### Listings

- Listed to UL 1598 and UL 8750 for 25°C Ambient applications.
- IC Rated.
- DesignLights Consortium® (DLC) Premium and/or standard qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- RoHS Compliant.
- Suitable For Damp Locations.





# 2x2 LPEC Low Profile Recessed Troffer

## ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **LPEC22 LED 32L UNV SR 40 ALDCS EM10 U**

Family/Size	LED Gen	Lumen Package*	Voltage	Driver	Color Temperature	Controls	Options	Packaging
LPEC22- (2x2)	LED	20L - 2000 25L - 2500 32L - 3200 38L - 3800 45L - 4500 50L - 5000 55L - 5500 65L - 6500 70L - 7000 75L - 7500 80L - 8000 Custom Lumen Packages <sup>6</sup>	UNV - 120-277V HV - 347V <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>  LDE5 - Lutron 5-Series <sup>1</sup>  SR - Sensor Ready <sup>2,5</sup>	30 - 3000K <sup>3,4</sup> 35 - 3500K 40 - 4000K 50 - 5000K	BLANK - (No Controls)  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>	U - Single Pack JP - Job Pack

### Accessory Ordering Information

Description	Order Number
Flange Kit 2x2	FK22

#### FOOTNOTES:

- 1 - Not available with ALDCS Control option.
- 2 - Available colors are White, Ivory and Light Almond (WH, IV, LA).
- 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.

### 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	Catalog number	Part Number	Wireless 90° 2500 ft <sup>2</sup> , Corner Mount	Part Number
On/Off & Dimming	ALCM-W-PC	624090	Wireless, Hallway 150 ft Length	632620
Commission Laser Kit				
(See Laser warnings)		634574		

## 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	1964	116.2	2078	123.0	2026	119.9	2238	132.4	16.9
25L	2491	117.0	2636	123.8	2570	120.7	2839	133.3	21.3
32L	3182	123.3	3367	130.5	3283	127.2	3627	140.6	25.8
39L	3763	123.0	3982	130.1	3882	126.9	4288	140.1	30.6
45L	4389	121.6	4644	128.6	4528	125.4	5002	138.6	36.1
50L	4937	121.3	5224	128.3	5093	125.1	5626	138.2	40.7
55L	5412	120.3	5727	127.3	5584	124.1	6168	137.1	45.0
60L	5831	120.0	6170	127.0	6016	123.8	6646	136.7	48.6
65L	6316	118.9	6683	125.9	6516	122.7	7198	135.6	53.1
70L	6895	117.7	7296	124.5	7113	121.4	7857	134.1	58.6
75L	7341	122.4	7768	129.5	7574	126.2	8367	139.4	60.0
80L	7760	121.6	8211	128.7	8006	125.5	8844	138.6	63.8

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





# 2x2 LPEC Low Profile Recessed Troffer

## PERFORMANCE (CONT.)

ELECTRICAL DATA*						
Lumens	Watts	120V	208V	240V	277V	347V
20L	16.9	0.1408	0.0813	0.0704	0.0610	0.0487
25L	21.3	0.1775	0.1024	0.0888	0.0769	0.0614
32L	25.8	0.2150	0.1240	0.1075	0.0931	0.0744
39L	30.6	0.2550	0.1471	0.1275	0.1105	0.0882
45L	36.1	0.3008	0.1736	0.1504	0.1303	0.1040
50L	40.7	0.3392	0.1957	0.1696	0.1469	0.1173
55L	45	0.3750	0.2163	0.1875	0.1625	0.1297
60L	48.6	0.4050	0.2337	0.2025	0.1755	0.1401
65L	53.1	0.4425	0.2553	0.2213	0.1917	0.1530
70L	58.6	0.4883	0.2817	0.2442	0.2116	0.1689
75L	60	0.5000	0.2885	0.2500	0.2166	0.1729
80L	63.8	0.5317	0.3067	0.2658	0.2303	0.1839

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

APPLICATION REFERENCE*						
Lumens	Spacing	Lumens	LPW	W/FT <sup>2</sup>	Avg Fc	# of Luminaires
32L	10' x 8'	3231	115	0.353	37	20
32L	8' x 8'	3231	115	0.441	47	25
32L	8' x 6'	3231	115	0.529	56	30

\*Based on a 9' Mtg.Ht., 4K color Temp, 80/50/20 reflectances, 2.5' work plane, LLF:1.0, 40' x 40' Room

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	100.00%	94.70%	91.70%	88.80%	85.99%

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).

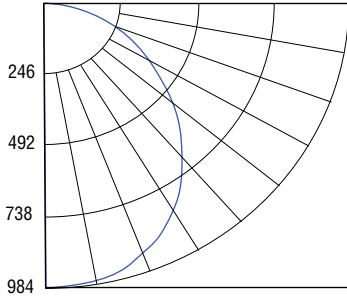




# 2x2 LPEC Low Profile Recessed Troffer

## PHOTOMETRICS

[Back to Quick Links](#)



### LPEC22 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

[Back to Quick Links](#)

