Low Profile Troffer 2x2 (LPASC22)
Recessed Narrow-Lens

MANUFACTURED IN THE USA | Bluetooth | **ARRA** Funding Compliant | Dimmable | **DLC LISTED PREMIUM** | **RoHS COMPLIANT** | **TITLE 24 COMPLIANT** | ((TW)) TUNABLE WHITE | c**UL**us LISTED | WIRELESS CONTROLS

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

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 (PF): > 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 AirLinkTM 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 AirlinkTM 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.lsicorp.com/resources/terms-conditions-warranty/ for more information.

Listings

- Listed to UL(R) 1598 and UL(R) 8750.
- 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.
- DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

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ORDERING GUIDE

TYPICAL ORDER EXAMPLE:	LPASC22	LED	55L	UNV	DIM1	TW	ALBC	U

Prefix	Light Source	Lumen Package	Voltage	Driver	Color Temperature
LPASC22 - (2x2)	**LED**	**20L** - 2,000 **25L** - 2,500 **32L** - 3,200 **39L** - 3,900 **45L** - 4,500 **50L** - 5,000 **55L** - 5,500 **65L** - 6,500 **70L** - 7,000 **75L** - 7,500 **80L** - 8,000 **Custom Lumen Packages**[1]	**UNV** - 120 - 277VAC **HV** - 347-480VAC[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] **SR** - Sensor Ready[3,5]	**30** - 3000K[3,4] **35** - 3500K **40** - 4000K **50** - 5000K

Controls	Options	Packaging
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[3,4] **AR** - Air Return **CPL** - Chicago Plenum	**U** - Single Pack

Need more information?
Click here for our glossary

Have additional questions?
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ACCESSORY ORDERING INFORMATION

Part Number	Description
FK22	Flange Kit 2x2
REM-SOLO	IR remote configuration tool for IMS1
772276	SMK22 - 2x2 Surface Mount Kit

CONTROLS ORDERING INFORMATION (Order As Separate Catalog Number)

Part Number	Order Number	Description
624094	-	Wireless Occupancy Sensor 360° 400 ft, Ceiling Mount[2]
632617	-	Wireless Occupancy Sensor 180° 3000 ft, Wall Mount[2]
624096	-	Wireless Occupancy Sensor 90° 2500 ft, Corner Mount[2]
632620	-	Wireless Occupancy Sensor, Hallway 150 ft Length
6241032	ALWS 3B-(color)-KIT	Wireless Switches, On/Off & Raise Lower[2]
624090	ALCM-W-PC	Wireless Photocell Controls, On/Off & Dimming
634574	-	Commission Laser Kit (See Laser Warnings)

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

Delivered Lumens[1]

Lumen Package	3000K CCT		3500K CCT		4000K CCT		5000K CCT		Wattage
	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
20L	2,017	110.8	2,134	117.3	2,092	114.9	2,231	122.6	18.2
25L	2,460	110.8	2,603	117.3	2,552	115.0	2,722	122.6	22.2
32L	3,115	110.5	3,296	116.9	3,231	114.6	3,446	122.2	28.2
39L	3,644	111.0	3,845	118.0	3,909	120.0	4,051	124.0	33.0
45L	4,222	111.0	4,454	117.0	4,529	119.0	4,694	123.0	38.0
50L	4,673	115.0	4,930	122.0	5,013	124.0	5,196	128.0	41.0
55L	5,154	114.0	5,438	121.0	5,529	123.0	5,730	127.0	45.0
60L	5,610	114.0	5,919	120.0	6,018	122.0	6,237	126.0	49.0
65L	6,059	113.0	6,393	119.0	6,500	121.0	6,737	126.0	54.0
70L	6,550	112.0	6,911	118.0	7,027	120.0	7,283	124.0	59.0
75L	6,996	110.0	7,381	116.0	7,505	118.0	7,778	123.0	63.0
80L	7,476	109.0	7,888	114.0	8,020	116.0	8,312	121.0	69.0

Electrical Data – Current Draw AMPS[2]

Lumen Package	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	0.300	0.200	0.100	0.100	0.100
45L	38.0	0.300	0.200	0.200	0.100	0.100
50L	41.0	0.300	0.200	0.200	0.100	0.100
55L	45.0	0.400	0.200	0.200	0.200	0.100
60L	49.0	0.400	0.200	0.200	0.200	0.100
65L	54.0	0.400	0.300	0.200	0.200	0.200
70L	59.0	0.500	0.300	0.200	0.200	0.200
75L	64.0	0.500	0.300	0.300	0.200	0.200
80L	69.0	0.600	0.300	0.300	0.200	0.200

Electrical Data – Current Draw AMPS – Tunable White[2]

Lumen Package	Wattage	120V	208V	240V	277V	347V	480V
55L	46	0.38	0.22	0.19	0.16	0.16	0.12

Recommended Lumen Maintenance[3]

Ambient Temperature ºC	Initial[4]	25K hrs.[4]	50K hrs.[4]	75K hrs.[5]	100K hrs.[5]
25	100%	95.02%	92.33%	89.71%	87.17%

Recommended Lumen Maintenance – Tunable White[3]

Ambient Temperature ºC	Initial[4]	25K hrs.[4]	50K hrs.[4]	75K hrs.[5]	100K hrs.[5]
25	99%	94%	89%	85%	81%

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   LED Chips are frequently updated therefore values are nominal.
2   Electrical data at 25C (77F). Actual wattage may differ by +/-10%.
3   Lumen maintenance values at 25 ° C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
4   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).
5   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).

SPEC.2094.B.0823

PHOTOMETRICS

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 the individual product page on https://www.lsicorp.com/ for detailed photometric data.

LPASC14 LED 30L 40

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	3,177.7	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
0-180	3,283.2	100.0

Polar Curve

246
492
738
984
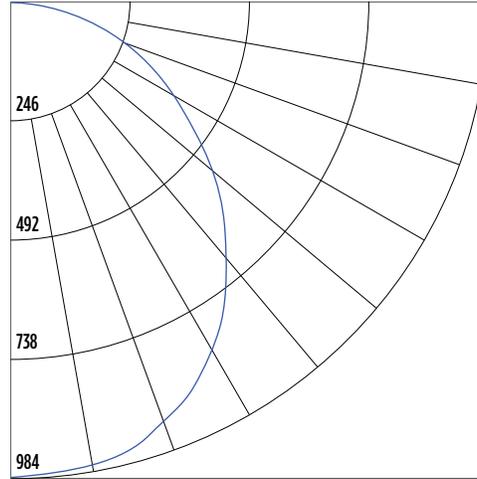
■ Vertical Plane

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DIMENSIONS

9.336"
(237mm)

23.75" (603mm)

.553"
(14mm)

SIDE VIEW

23.875" (606mm)

23.750" (603mm)

3.5"
(89mm)

END VIEW

23.875" (606mm)

23.750" (603mm)

4.25"
(108mm)

END VIEW - Air Return Option

23.75" (603mm)

9.523"
(242mm)

2.866"
(73mm)

6.501"
(165mm)

Acceess Plate Location

4.992"
(127mm)

.875 K.O.

23.812"
(605mm)

Optional AirLink Power Pack

BACK VIEW

Optional AirLink Occupancy Sensor

23.75" (603mm)

3.65" (93mm)

1.375"
(35mm)

23.812"
(605mm)

TOP VIEW

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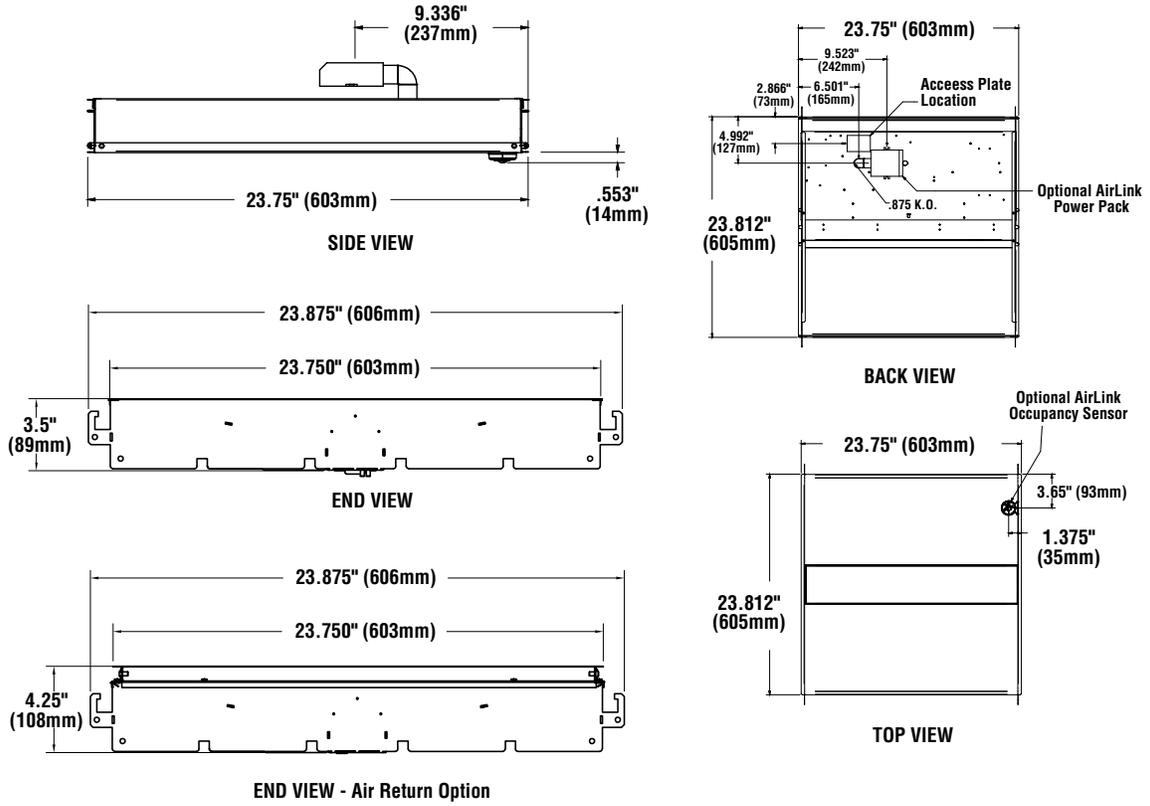
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CONTROLS

AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)

AirLink Blue App   Apple