Catalog # : _____ Project : _____ Type : _____

Prepared By : _____ Date : _____

2x2 Round Recessed (XIRR)

Square Housing and Round Aperture



OVERVIEW	
Lumen Package (lm)	12,000 - 19,000
Wattage Range (W)	113 - 168
Efficacy Range (LPW)	106 - 111
Weight lbs (kg)	11 - 20 (5 - 9)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- Rigid housing is die-formed thick gauge aluminum for consistency and strength.
- Mounting pan comes equipped with integral NEC compliant earthquake clips.
- Ultra-thin 3.14" luminaire height and lightweight design effectively target a broad range of plenum spaces and allow for easy installations.
- Luminaire is proudly assembled in the U.S.
- All metal parts are painted after fabrication following treatment with phosphate rust inhibitor. Finish coating of housing reflecting surfaces is with high-reflectance (minimum 92%) polyester powder.
- Shipping weight: 20lbs in carton.

Optical System

- High transmission impact resistant diffuse acrylic lens eliminates bright spots from individual LED's and provides high vertical illumination and visual comfort.
- Use of closely spaced high brightness LED chips minimizes pixelation and provides uniform lens luminance.
- Available in 5000K, 4000K and 3500K color temperatures.
- Minimum CRI of 80.

Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- 0-10 volt dimming (1% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High voltage (347 Vac).
- L70 Calculated Life: >75k Hours (See Lumen Maintenance on Page 2)
- Total harmonic distortion: <20%
- Operating temperature: - -40°C to +40°C (-40°F to +104°F) 30°C (86°F) when equipped with EM option.
- 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. The 90-minute batteries provide constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance.

Controls

- Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels (see the controls section for more details).

Installation

- Luminaire installs by lifting it through grid ceiling and resting it on the T-bars.
- Wiring access/strain relief plate attaches with one screw, allowing connections to be made from below the ceiling.
- 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 1598 and UL 8750.
- RoHS Compliant.
- State of California Title 24.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- American Recovery and Reinvestment Act Funding Compliant.
- Lighting Facts Approved.
- Suitable For Damp Locations.
- Buy American Act (BAA) and Build America, Buy America (BABAA) Compliant Fixture.
  - Compliance dependent on SKU and configuration. Confirm with factory.

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Type : _____

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ORDERING GUIDE

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TYPICAL ORDER EXAMPLE: XIRR S LED 18L 40 UE 2X2 WHT EM

Prefix	Distribution	Light Source	Lumens (Nominal)	Color Temperature	Driver	Line Voltage	Mounting	Finish[1]	Options
XIRR - 2x2 Round Recessed	**S** - Symmetric	**LED**	**12L** - 12,000 **18L** - 18,000	**35** - 3500K **40** - 4000K **50** - 5000K	**DIM** - 0-10V Dimming	**UE** - Universal Voltage (120-277V) **347** - 347V	**2x2** - 2x2 T-Bar Grid Ceilings	**WHT** - White **BLK** - Black	**EM** - Emergency Battery[2] **ALBCS1** - AirLink™ Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) **ALBCS2** - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height) **IMSBT1** - Integral Bluetooth® Motion and Photocell Sensor (8 - 24' mounting height **IMSBT2** - Integral Bluetooth Motion and Photocell Sensor (25 - 40' mounting height)

Need more information?
Click here for our glossary

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CONTROLS ORDERING INFORMATION

Part Number	Order Number	Description
754823	ALBWS E02B WH	AirLink Blue Two Button Kinetic Switch white
754821	ALB WS MW1B WH	AirLink Blue wall dimmer switch 1 button white
760923	ALB WS MW4B WH	AirLink Blue wall dimmer 4 button scenes white
741967	ALBTK	AirLink Blue Time Keeper
760580	ALBCM DHS	AirLink Blue Daylight Harvesting Sensor
760380	ALBCM OS	AirLink Blue Ceiling Mount Motion Sensor

PERFORMANCE

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Delivered Lumens[3]

Lumen Package	5000K	4000K	3500K CCT	Wattage
12L	12,646	12,056	11,929	113
18L	18,594	12,056	17,324	168

Electrical Data - Current Draw AMPS[4]

Lumen Package	120V	208V	240V	277V
12L	0.94	0.54	0.47	0.41
18L	1.40	0.81	0.70	0.61

Recommended Lumen Maintenance[5]

Ambient Temperature °C	Initial[6]	25K hr[6]	50K hr[6]	75K hr[7]
0	1.02	0.93	0.85	0.79
5	1.02	0.92	0.84	0.77
10	1.02	0.91	0.83	0.76
15	1.01	0.89	0.82	0.74
20	1.01	0.89	0.81	0.74
25	1.00	0.89	0.81	0.74
30	0.99	0.88	0.80	0.73
35	0.98	0.86	0.79	0.72

Application Reference[8]

Mounting Height	Spacing	Lumens	LPW	W/FT2	Avg Fc	# of Luminaires
22	12'x12'	18L	107	1.07	84	16
22	12'x16'	18L	107	0.80	63	12
22	16'x16'	18L	107	0.60	47	9
16	12'x12'	12L	108	0.72	65	12
16	12'x16'	12L	108	0.54	49	9
16	16'x16'	12L	108	0.40	36	6

1 Above ceiling plane will be painted white.
2 Not available with 347 Voltage.
3 LED Chips are frequently updated therefore values may increase.
4 Electrical data at 25C (77F). Actual wattage may differ by +/-10%.
5 Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
6 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).
7 In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed 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).
8 Based on 4K, 80/50/20 reflectances, 2.5' work plane, LLF:1.0, 50'x50' Room

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PHOTOMETRICS

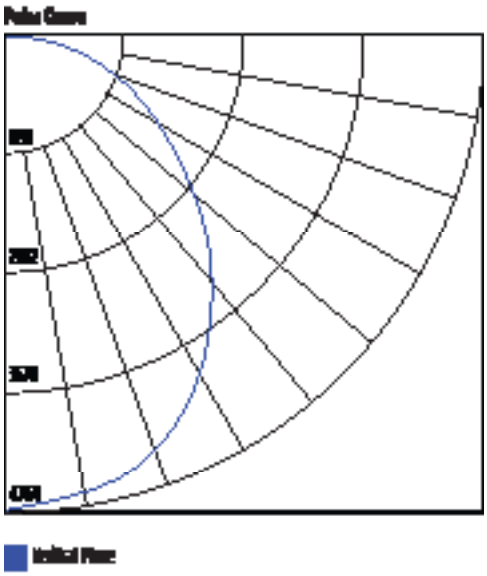
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Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

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

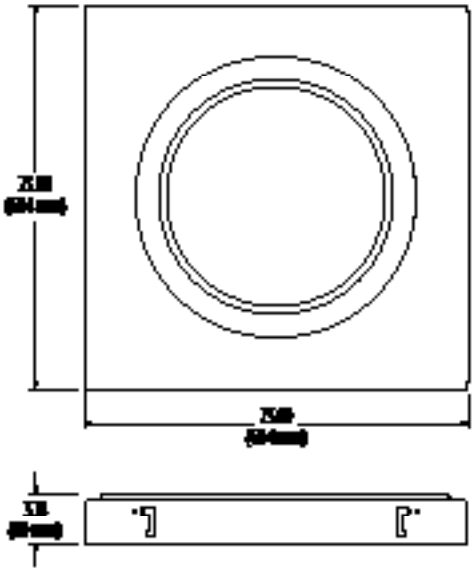
SCM-LED-13L-SC-50

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	3,644.7	18%
0-40	5,851.8	50%
0-60	9,848.2	30%
60-90	877.2	18.30%
70-100	877.2	7.30%
90-120	0	0%
0-90	12,051.8	100%
90-180	0	0%
0-180	12,051.8	100%



PRODUCT DIMENSIONS

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