

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The Shadow Box Square surface mount troffer combines digital lighting and control technologies with an aesthetically pleasing, uniform brightness and clean lines which make the SBSL the perfect solution for applications such as schools, offices and hospitals. The combination of perforated perimeter with white center section is a unique look for today's recessed ceiling applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality light installation that is highly efficient and sustainable. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

**CONSTRUCTION** — Housing formed from cold-rolled steel. Housing is painted after fabrication for superior finish.

Smooth hemmed sides and smooth inward-formed end flanges, for easy handling.

Standard extruded aluminum door frame has superior structural integrity with premium appearance and mitered corners. Door frame is painted after fabrication, standard. Powder-painted rotary cam latches provide easy, secure door closure. Integral T-bar clips are standard. Acrylic shielding material is 100% UV stabilized.

**OPTICS** — Stylish open matte white surrounded by perforated patterned trim creates a unique lighted appearance and adds visual interest to the space.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

nLight® embedded controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the AL luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Driver disconnect provided where required to comply with US and Canadian codes.

**INSTALLATION** — Surface mount. Drivers and internal components are accessible from floor. Suitable for damp location.

Maintenance: LED boards include plug-in connectors for easy replacement or servicing.

**LISTINGS** — CSA certified to US and Canadian standards. 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](http://www.designlights.org/QPL) to confirm which versions are qualified.

Protected by one or more of US Patent Nos. D690,868; D690,867.

Catalog Number
Notes
Type

**SBS Series**

SHADOW BOX SQUARE SURFACE MOUNT

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**2SBSLX4**



2' x 4' LED

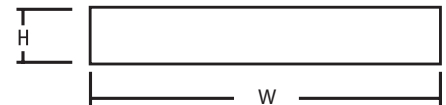


*Specifications*

Length: 48-3/4 (123.8)

Width: 24-3/4 (62.9)

Depth: 4-3/4 (12.1)



All dimensions are inches (centimeters) unless otherwise indicated.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

**ORDERING INFORMATION**

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** 2SBSLX4 48L FW EZ1 LP835 N100

2SBSLX4		Lumens <sup>1</sup>		Door		Voltage		Driver	
Series	2SBSLX4 Surface LED 2x4	30L	3000 lumens	FW	Flush aluminum, white	(blank)	MVOLT (120-277)	EZ1	eldoLED dims to 1% (0-10 volt dimming)
		40L	4000 lumens	RW	Regressed aluminum, white	347	347 <sup>2</sup>	EZB	eldoLED dims to dark (0-10 volt dimming)
		48L	4800 lumens					EDB	eldoLED DALI <sup>3</sup>
		60L	6000 lumens					EXB	eldoLED DMX/RDM <sup>3</sup>
		72L	7200 lumens					EXA1	Dims to 1%, XPoint wireless enabled <sup>3,4</sup>
								EXAB	Dims to dark, XPoint wireless enabled <sup>3,4</sup>
								SLD	Step-level dimming <sup>3</sup>
Color temperature		Control				Options			
LP830	3000 K	(blank)	No controls			EL7L	700 nominal lumen battery pack <sup>5</sup>		
LP835	3500 K	N80	nLight with 80% (L80) lumen management			EL14L	1400 nominal lumen battery pack <sup>5</sup>		
LP840	4000 K	N80EMG	nLight with 80% (L80) lumen management for use with generator supply EM power						
LP850	5000 K	N100	nLight without lumen management						
		N100EMG	nLight without lumen management for use with generator supply EM power						

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**Notes**

1 Approximate lumen output.

2 Not available with EL7L or EL14L battery packs or SLD driver.

3 Not available with N80, N80EMG, N100, or N100EMG.

4 Gateway not included. Requires on-site commissioning.

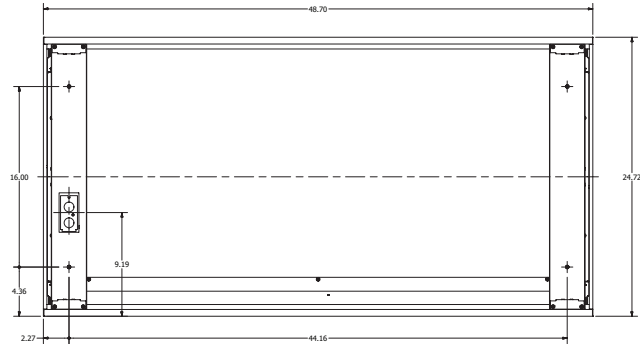
Visit [www.lightingcontrols.com/XPointWireless](http://www.lightingcontrols.com/XPointWireless) for more information.

5 Not available with 72L option.

# 2SBSLX4 Surface Mount LED Lighting 2' x 4'

Performance Data				
Lumen	Package	Lumens	Input Watts	LPW
30L	LP830	2,641.9	25	105.7
30L	LP835	2,698.6	25	107.9
30L	LP840	2,717.5	25	108.7
30L	LP850	2,811.9	25	112.5
40L	LP830	3,357.0	32	104.9
40L	LP835	3,429.9	32	107.2
40L	LP840	3,454.2	32	107.9
40L	LP850	3,575.6	32	111.7
48L	LP830	4,153.1	40	103.8
48L	LP835	4,242.2	40	106.1
48L	LP840	4,271.9	40	106.8
48L	LP850	4,420.3	40	110.5
60L	LP830	4,763.0	47	101.3
60L	LP835	4,865.6	47	103.5
60L	LP840	4,900.6	47	104.3
60L	LP850	5,070.7	47	107.9
72L	LP830	6,584.6	68	96.8
72L	LP835	6,724.9	68	98.9
72L	LP840	6,773.5	68	99.6
72L	LP850	7,010.9	68	103.1

## MOUNTING DATA



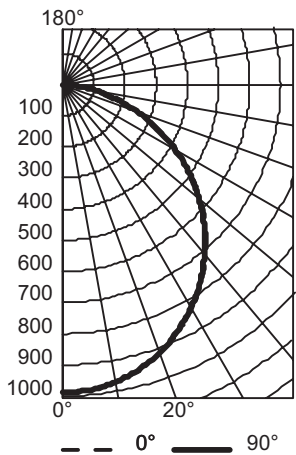
### nLight® Control Accessories:

Order as separate catalog number. Visit [www.sensorswitch.com/nLight](http://www.sensorswitch.com/nLight) for complete listing of nLight controls.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Standard range 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Extended range 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model number	CAT5 cable bundles (plenum rated)	Model number
Continuous dimming	nCM ADC	10', 15 pieces per bundle	CAT5 10FT
On/Off & Dimming	nCM PC ADC	30', 15 pieces per bundle	CAT5 30FT

## PHOTOMETRICS

2SBSLX4 48L EZ1 LP835, 4242.2 delivered lumens, test no. LTL26938P29, tested in accordance to IESNA LM-79.



### CP Summary

0°	90°
0°	986 986
5°	981 984
15°	949 946
25°	876 873
35°	775 770
45°	649 642
55°	503 497
65°	342 336
75°	182 176
85°	48 45
90°	0 0

### Coefficients of Utilization

pc	20%								
	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
	0	119	119	119	116	116	116	111	111
1	109	104	100	102	98	94	98	94	91
2	99	91	84	89	83	77	85	80	75
3	90	80	72	78	71	64	75	69	63
4	83	71	62	69	61	55	67	60	54
5	76	63	54	62	53	47	60	52	47
6	70	57	48	56	47	41	54	46	41
7	65	51	43	51	42	36	49	42	36
8	61	47	38	46	38	33	45	38	32
9	57	43	35	43	35	29	41	34	29
10	53	40	32	39	32	27	38	31	26

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	761	27.7	27.7
0° - 40°	1243	45.3	45.3
0° - 60°	2180	79.4	79.4
0° - 90°	2746	100.0	100.0
90° - 120°	0	0.0	0.0
90° - 130°	0	0.0	0.0
90° - 150°	0	0.0	0.0
90° - 180°	0	0.0	0.0
0° - 180°	2746	100.0	100.0

# 2SBSLX4 Surface Mount LED Lighting 2' x 4'

## Constant Lumen Management

Enabled by the embedded nLight control, the SBSLX actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.

