LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

Catalog Number
Notes
Type

SBS Series

SHADOW BOX SQUARE

2' x 4'
LED

eldoLED DLC QPL LISTED nLIGHT®

INTENDED USE — The Shadow Box Square 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 lighting 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 lit 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 SBSL luminaires using standard Cat-5 cabling, and enjoy 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 — Drivers and internal components are accessible from floor. Suitable for direct insulation contact. Suitable for damp location.

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

LISTINGS — CSA certified to U.S. and Canadian standards. IC rated.

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.

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

WARRANTY — 5-year limited warranty. Complete warranty terms located at 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: 2SBSL4 48L FW EZ1 LP835 N100

2SBSL4

Series	Lumens[1]		Door		Voltage		Driver	
2SBSL4 Recessed LED 2x4	30L	3000 lumens	FW	Flush aluminum, white	(blank)	MVOLT (120-277V)	EZ1	eldoLED dims to 1% (0-10 volt dimming)
	40L	4000 lumens	RW	Regressed aluminum, white	347	347V [2]	EZB	eldoLED dims to dark (0-10 volt dimming)
	48L	4800 lumens					EDB	eldoLED DALI[3]
	60L	6000 lumens					EXB	eldoLED DMX/RDM[3]
	72L	7200 lumens					EXA1	Dims to 1%, XPoint wireless enabled[3, 4]
							EXAB	Dims to dark, XPoint wireless enabled[3, 4]
							SLD	Step-level dimming[3]

Color temperature		Control		Options	
LP830	3000 K	(blank)	No controls	EL7L	700 nominal lumen battery pack
LP835	3500 K	N80	nLight with 80% (L80) lumen management	EL14L	1400 nominal lumen battery pack
LP840	4000 K	N80EMG	nLight with 80% (L80) lumen management for use with generator supply EM power	CP	Chicago plenum
LP850	5000 K	N100	nLight without lumen management		
		N100EMG	nLight without lumen management for use with generator supply EM power		

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nLight® Control Accessories:
Order as separate catalog number. Visit 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**	**Cat-5 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

Accessories: *Order as separate catalog number.*

DGA24	Drywall grid adapter for 2x4 recessed fixture.

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 for more information.

Shadow Box Square 2X4

Performance Data

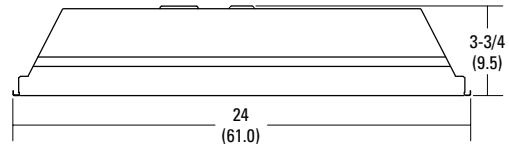| Lumen	Package	Lumens	Input Watts	LPW
30L	LP830	2,641.9	25	105.7
30L	LP835	2,698.6	25	107.9
30L	LP840	2,717.5	25	108.7
30L	LP850	2,811.9	25	112.5
40L	LP830	3,357.0	32	104.9
40L	LP835	3,429.9	32	107.2
40L	LP840	3,454.2	32	107.9
40L	LP850	3,575.6	32	111.7
48L	LP830	4,153.1	40	103.8
48L	LP835	4,242.2	40	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

Dimensions

All dimensions are inches (centimeters) unless otherwise specified.
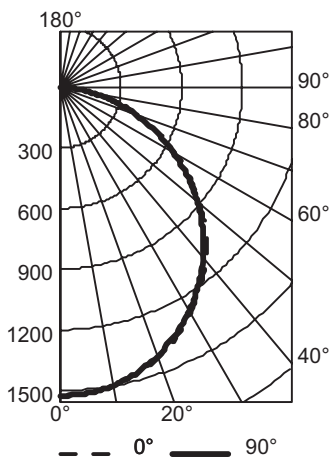
Specifications

Length: 48 (122.0)

Width: 24 (61.0)

Depth: 3-3/4 (9.5)

3-3/4 (9.5)

24 (61.0)

PHOTOMETRICS

2SBSL4 48L RW EZ1 LP840, 4271.9 delivered lumens, test no. LTL26938P10, tested in accordance to IESNA LM-79.

CP Summary

	0°	90
0°	1526	1526
5°	1518	1520
15°	1466	1463
25°	1363	1349
35°	1208	1190
45°	1016	994
55°	788	768
65°	535	522
75°	287	277
85°	78	71
90	0	0

Coefficients of Utilization

pf					20%				
pc		80%			70%			50%	
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	104	100	102	98	94	97	94	91
2	99	91	84	89	82	77	85	80	75
3	90	80	71	78	70	64	75	68	63
4	83	70	62	69	61	55	67	59	54
5	76	63	54	62	53	47	60	52	46
6	70	57	48	56	47	41	54	46	41
7	65	51	43	51	42	36	49	42	36
8	60	47	38	46	38	32	45	37	32
9	56	43	35	42	35	29	41	34	29
10	53	40	32	39	32	26	38	31	26

(RCR rows 0–10)

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1179	27.6	27.6
0° - 40°	1925	45.1	45.1
0° - 60°	3381	79.2	79.2
0° - 90°	4272	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°	4272	100.0	100.0

— — 0°   —— 90°

Constant Lumen Management

Enabled by the embedded nLight control, the SBSL 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.

Without Lumen Management
Energy is wasted and light level is inconsistent.

POWER INPUT

LIGHT OUTPUT

Wasted Energy

68W

54W

THOUSAND OPERATING HOURS

With Lumen Management
Energy is saved and light level remains consistent.

Saved Energy

POWER INPUT

LIGHT OUTPUT

68W

54W

THOUSAND OPERATING HOURS

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2SBSL-2X4