

LBSSES-SQD

EDGE-LIT SQUARE SWITCHABLE CCT
DIRECT J-BOX MOUNT DOWNLIGHT



FEATURES

- 4", 6", and 8" aperture, delivering 750-1750 lumens
- Low surface profile of 1/2"
- Quick snap installation with no housing required
- Installs directly to most 3-1/2" and 4" J-Boxes
- Switchable CCT (2700K/3000K/3500K/4000K), 90+ CRI
- Universal 120-277V, ideal for commercial applications
- All models standard with 0-10V/Triac/ELV dimming



SERVICE PROGRAMS



SPECIFICATIONS

CONSTRUCTION

- Durable cast aluminum low profile trim with 1/2" surface profile
- Suitable for New Construction or remodel, IC or Non-IC applications
- Eliminates the need for a recessed housing, ideal for areas with limited plenum space
- Optional non-conductive Decorative Color Trim accessories available in White, Black, Silver, and Brushed Oil Rubbed Bronze

OPTICS

- Utilizes the latest Edge-Lit LED technology
- Integral diffuse polycarbonate lens provides uniform light distribution
- Light distribution is free of distracting bright spots
- Visually comfortable with low glare

ELECTRICAL

- Edge-Lit LED array with 3 SDCM color consistency
- Long LED life: Maintains 80% of lumen output at 54,000 hours of operation, L80 at >54,000 hours (TM-21)
- Switchable CCT (2700K/3000K/3500K/4000K)
- 90+ CRI with R9 >50
- High efficiency integral driver with universal 120V-277V, 50/60Hz

ELECTRICAL (CONTINUED)

- All models have flicker-free dimming with 120-277V 0-10V Dim to Off or 120V Triac or ELV phase cut to 5%
- See Additional Information section for a list of recommended dimmers
- EMI: Meets Class A (<24dba) noise rating, FCC CFR 47 Part 15 Class B, ≥0.9 Power Factor, <20% THD

INSTALLATION

- Installs directly to most common 3-1/2" or 4" octagonal and round junction boxes with a minimum 1-1/2" depth including fire rated (by others)
- Metal plate mounts to the J-Box and accepts snap-in spring clips for a secure fit
- Switchable CCT models: Field select one of four CCTs at installation with an integral switch accessible on the back of the driver

CERTIFICATIONS

- cETLus listed to UL1598
- Can be used in direct contact with insulation (IC Rated)
- Suitable for wet locations, covered ceiling
- Suitable for use in clothes closets when installed in accordance to N.E.C. 410.16
- ENERGY STAR® certified
- Meets CA Title 24 High Efficacy (JA8 2019) requirements

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	757-1770
Wattage Range	10.0-20.0
Efficacy Range (LPW)	76-89
Reported Life (Hours)	L80 / >54,000
Input Current (mA)	83-167 (120V)

*Based on 3000K, 90 CRI

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ORDERING GUIDE

Example: LBSES-4SQD-CS9-WH

CATALOG #

HOUSING

LBSES		CS9	WH
Model/CCT Configuration	Aperture/Shape/Function	CCT/CRI	Trim Color
LBSES Edge-Lit Surface, Switchable CCT, 120-277V with 0-10V/Triac/ELV dimming	4SQD 4" Square, Direct J-Box Mount, 750 Lumens 6SQD 6" Square, Direct J-Box Mount, 1100 Lumens 8SQD 8" Square, Direct J-Box Mount, 1750 Lumens	CS9 Switchable CCT, 90+ CRI (2700K/3000K/3500K/4000K)	WH White

Accessories

- LBSE-4SQD-T-WH** Trim Accessory, 4" Square, White
- LBSE-4SQD-T-BL** Trim Accessory, 4" Square, Black
- LBSE-4SQD-T-BBZ** Trim Accessory, 4" Square, Brushed Oil Rubbed Bronze
- LBSE-4SQD-T-SVR** Trim Accessory, 4" Square, Silver

- LBSE-6SQD-T-WH** Trim Accessory, 6" Square, White
- LBSE-6SQD-T-BL** Trim Accessory, 6" Square, Black
- LBSE-6SQD-T-BBZ** Trim Accessory, 6" Square, Brushed Oil Rubbed Bronze
- LBSE-6SQD-T-SVR** Trim Accessory, 6" Square, Silver

- LBSE-8SQD-T-WH** Trim Accessory, 8" Square, White
- LBSE-8SQD-T-BL** Trim Accessory, 8" Square, Black
- LBSE-8SQD-T-BBZ** Trim Accessory, 8" Square, Brushed Oil Rubbed Bronze
- LBSE-8SQD-T-SVR** Trim Accessory, 8" Square, Silver

- LBSES-C-12** Extension Cable, LBSE/LBSES, 12"
- LBSES-C-24** Extension Cable, LBSE/LBSES, 24"

LBSES-SQD

EDGE-LIT SQUARE SWITCHABLE CCT
DIRECT J-BOX MOUNT DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

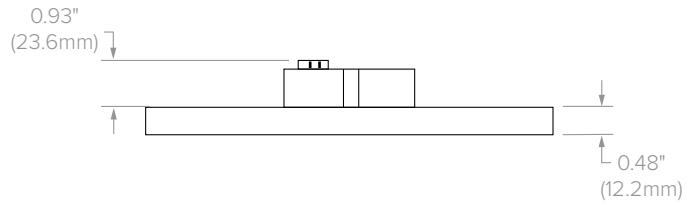
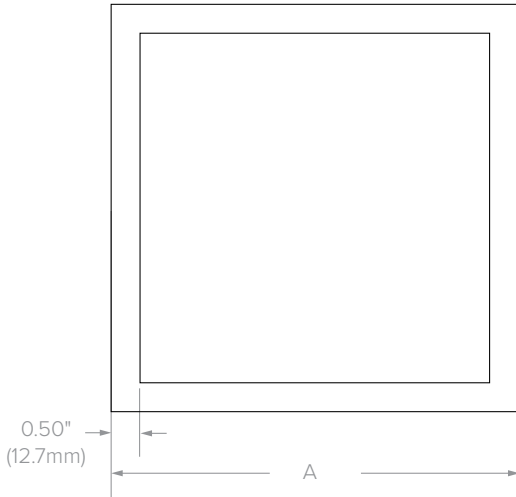
CATALOG #: _____

PERFORMANCE DATA TABLE

Nominal Aperture	Nominal Lumens	Cat #	CCT**	CRI	Delivered Lumens	Watts	LPW
4"	750	LBSES-4SQD-CS9-WH	3000K	90	757	10.0	76
6"	1100	LBSES-6SQD-CS9-WH	3000K	90	1076	13.0	83
8"	1750	LBSES-8SQD-CS9-WH	3000K	90	1770	20.0	89

** For all other CCTs, use the Lumen Multiplier in Photometry section

DIMENSIONS



Dimensional Data	
Aperture (Cat logic)	"A"
4" (4SQD)	4.61" SQ (117.1mm)
6" (6SQD)	6.00" SQ (152.4mm)
8" (8SQD)	8.00" SQ (203.2mm)

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PHOTOMETRY

LBSSES-4SQD-CS9-WH

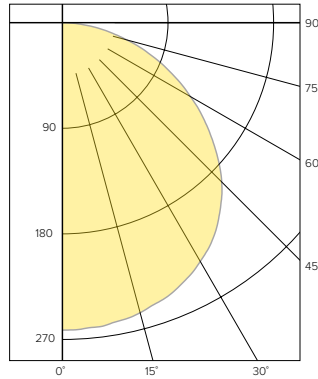
LUMINAIRE DATA

Test No.	R20.00829-01
Description	4" Downlight, Switchable CCT @3000K, 90 CRI
Delivered Lumens	758
Watts	10.0W
Efficacy	76
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	328	43.2
0-60	590	77.9
0-90	758	100.0
0-180	758	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	245
5	244
15	239
25	229
35	210
45	179
55	139
65	96
75	53
85	14
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	27823
55°	26698
65°	24912
75°	22599
85°	18303

*Candela/Square Meter

LBSSES-6SQD-CS9-WH

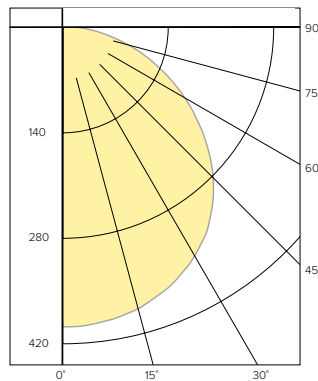
LUMINAIRE DATA

Test No.	R20.00835-01
Description	6" Downlight, Switchable CCT @3000K, 90 CRI
Delivered Lumens	1077
Watts	13.0W
Efficacy	83
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	465	43.2
0-60	838	77.8
0-90	1077	100.0
0-180	1077	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	350
5	349
15	341
25	325
35	297
45	254
55	198
65	136
75	76
85	21
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	22267
55°	21350
65°	19984
75°	18180
85°	15228

*Candela/Square Meter

LBSSES-8SQD-CS9-WH

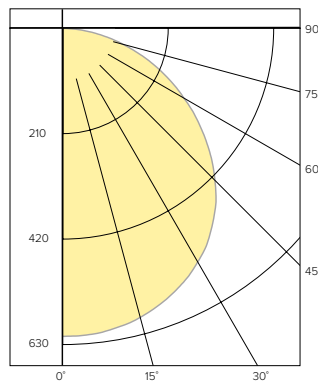
LUMINAIRE DATA

Test No.	R20.00837-01
Description	8" Downlight, Switchable CCT @3000K, 90 CRI
Delivered Lumens	1771
Watts	20W
Efficacy	89
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	766	43.3
0-60	1376	77.7
0-90	1771	100.0
0-180	1771	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	576
5	575
15	563
25	535
35	490
45	416
55	323
65	224
75	124
85	37
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	18602
55°	17823
65°	16771
75°	15141
85°	13293

*Candela/Square Meter

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DIRECT J-BOX MOUNT DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ADDITIONAL INFORMATION

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on www.currentlighting.com/prescolite.

J-Box Compatibility

LITEBOX® Edge-Lit Direct J-Box Mount downlights are compatible with many standard 3-1/2" and 4" octagonal and round J-Boxes with a 1-1/2" minimum depth. Fire rated J-Boxes may also be used.

