

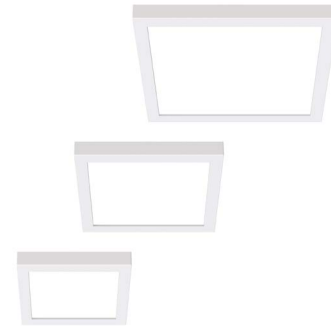
# LBSSES-SQD

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



## RELATED PRODUCTS

- [4" Edge-lit Family](#)
- [6" Edge-lit Family](#)
- [8" Edge-lit Family](#)

## 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
- See [HLI Standard Warranty](#) for additional information

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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*Click icon for Stock list and details*

## ORDERING GUIDE

**Example:** LBSSES-4SQD-CS9-WH

CATALOG #

### HOUSING

LBSSES		CS9	WH
Model/CCT Configuration	Aperture/Shape/Function	CCT/CRI	Trim Color
<b>LBSSES</b> Edge-Lit Surface, Switchable CCT, 120-277V with 0-10V/Triac/ELV dimming	<b>4SQD</b> 4" Square, Direct J-Box Mount, 750 Lumens <b>6SQD</b> 6" Square, Direct J-Box Mount, 1100 Lumens <b>8SQD</b> 8" Square, Direct J-Box Mount, 1750 Lumens	<b>CS9</b> Switchable CCT, 90+ CRI (2700K/3000K/3500K/4000K)	<b>WH</b> 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
  
- LBSSES-C-12** Extension Cable, LBSE/LBSSES, 12"
- LBSSES-C-24** Extension Cable, LBSE/LBSSES, 24"

# LBSSES-SQD

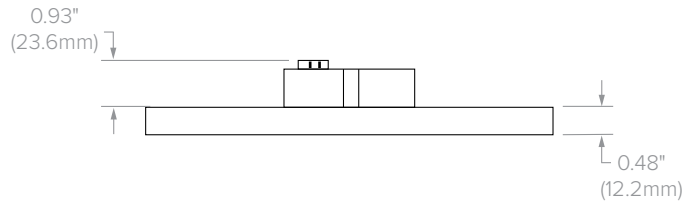
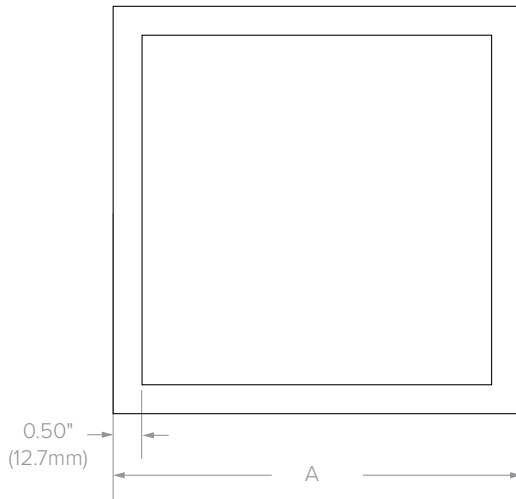
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## PERFORMANCE DATA TABLE

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

# LBSSES-SQD

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## PHOTOMETRY

### LBSSES-4SQD-CS9-WH

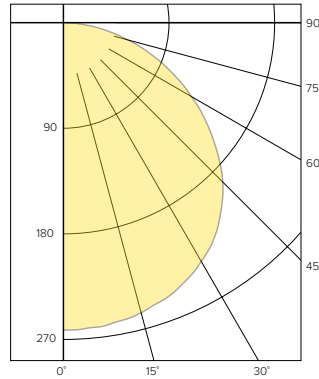
#### LUMINAIRE DATA

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

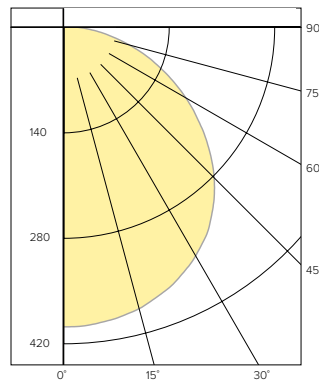
#### LUMINAIRE DATA

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

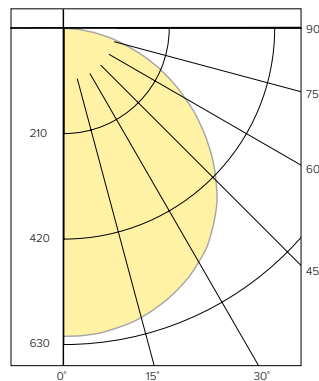
#### LUMINAIRE DATA

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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## ADDITIONAL INFORMATION

### Dimming Compatibility

See the DIMMING link for more information on dimming compatibility and recommended dimmer list.

### 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.

