

LBSE-SQD

EDGE-LIT SQUARE FIXED 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
- Fixed CCT (3000K or 3500K, 80+ CRI) options
- Universal 120-277V, ideal for commercial applications
- All models standard with 0-10V/Triac/ELV dimming

LITEBOX[®]
edge-lit



RELATED PRODUCTS

- Ø [4" Edge-lit Family](#)
- Ø [6" Edge-lit Family](#)
- Ø [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)
- Available in Fixed CCT in 3000K or 3500K, 80+ CRI
- 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

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

WARRANTY

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

KEY DATA	
Lumen Range	753-1804
Wattage Range	10.1-20.0
Efficacy Range (LPW)	75-90
Reported Life (Hours)	L80 / >54,000
Input Current (mA)	87-167 (120V)

LBSE-SQD

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



Click icon for Stock list and details

ORDERING GUIDE

Example: LBSE-4SQD-35K8-WH

CATALOG #

HOUSING

LBSE	Aperture/Shape/Function	CCT/CRI	Trim Color
Model/CCT Configuration LBSE Edge-Lit Surface, Fixed 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	30K8 3000K, 80+ CRI 35K8 3500K, 80+ CRI	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"

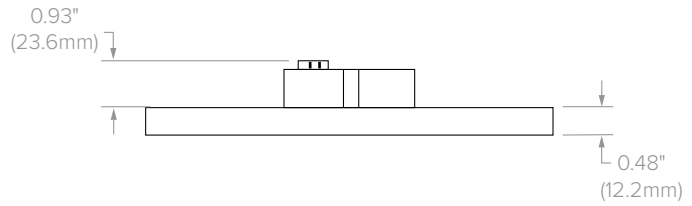
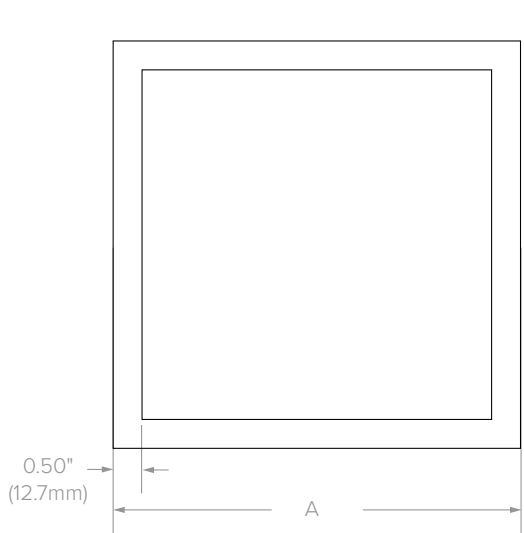
LBSE-SQD

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

PERFORMANCE DATA TABLE

Nominal Aperture	Nominal Lumens	Cat #	CCT	CRI	Delivered Lumens	Watts	LPW
4"	750	LBSE-4SQD-30K8-WH	3000K	80	753	10.1	75
		LBSE-4SQD-35K8-WH	3500K		813	10.1	81
6"	1100	LBSE-6SQD-30K8-WH	3000K	80	1048	13.0	81
		LBSE-6SQD-35K8-WH	3500K		1133	13.0	87
8"	1750	LBSE-8SQD-30K8-WH	3000K	80	1669	20.0	83
		LBSE-8SQD-35K8-WH	3500K		1804	20.0	90

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)

LBSE-SQD

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

PHOTOMETRY

LBSE-4SQD-30K8-WH

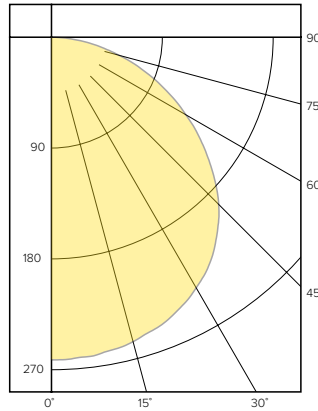
LUMINAIRE DATA

Test No.	R20.00830-01
Description	4" Downlight, 3000K, 80 CRI
Delivered Lumens	753
Watts	10.1W
Efficacy	75
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	324	43.1
0-60	585	77.7
0-90	753	100.0
0-180	753	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	243
5	242
15	237
25	226
35	208
45	178
55	138
65	95
75	53
85	15
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	27716
55°	26516
65°	24877
75°	22480
85°	18739

*Candela/Square Meter

LBSE-6SQD-30K8-WH

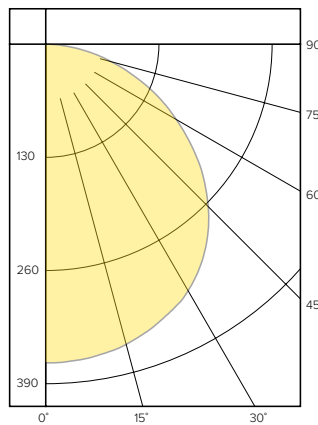
LUMINAIRE DATA

Test No.	R20.00831-01
Description	6" Downlight, 3000K, 80 CRI
Delivered Lumens	1049
Watts	13.0W
Efficacy	81
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	454	43.3
0-60	816	77.8
0-90	1049	100.0
0-180	1049	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	342
5	341
15	334
25	317
35	390
45	247
55	192
65	133
75	73
85	21
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	21628
55°	20705
65°	19465
75°	17458
85°	14623

*Candela/Square Meter

LBSE-8SQD-30K8-WH

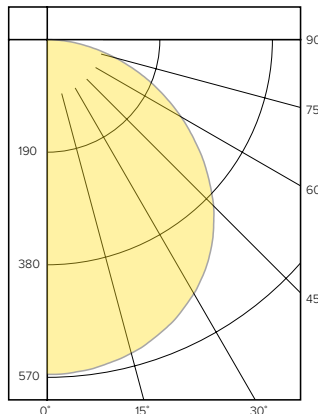
LUMINAIRE DATA

Test No.	R20.00833-01
Description	8" Downlight, 3000K, 80 CRI
Delivered Lumens	1669
Watts	20W
Efficacy	83
Mounting	Surface
Spacing Criterion	1.3

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	727	43.7
0-60	1298	77.9
0-90	1616	100.0
0-180	1669	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	556
5	554
15	539
25	509
35	460
45	390
55	302
65	209
75	118
85	35
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	17452
55°	16637
65°	15666
75°	14412
85°	12839

*Candela/Square Meter

LBSE-SQD

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

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.

