

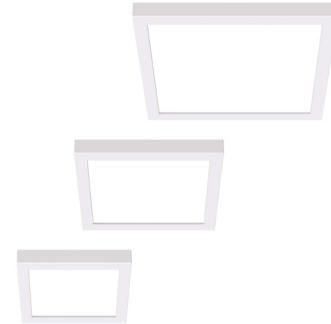
# LBSSES-SQD-RM

EDGE-LIT SQUARE SWITCHABLE CCT  
DOWNLIGHT W/ REMOTE J-BOX

**LITEBOX®**  
edge-lit

## FEATURES

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



Intertek

## SERVICE PROGRAMS



## SPECIFICATIONS

### CONSTRUCTION

- Durable cast aluminum low profile trim with 1/2" surface profile
- Suitable for IC or Non-IC remodel or new construction (install from below)
- Can be installed in areas with as little as 3.5" ceiling plenum space
- Metal remote driver J-Box eliminates the need for existing J-Box or recessed housing
- Plenum rated cables with quick connects from LED trim to remote J-Box; optional extension cables allow longer distances
- Optional non-conductive Decorative Color Trim accessories available in White, Black, Silver, and Brushed Oil Rubbed Bronze
- EM Battery Pack accessory with integral test switch/indicator can be field installed to provide 90 minutes of emergency power
- Unobtrusive EM ring adds only 1/16" to overall profile height; blends seamlessly with nearby standard fixtures

### 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)
- CCT Switchable (2700K/3000K/3500K/4000K)
- 90+ CRI with R9 >50
- High efficiency integral driver with universal 120V-277V, 50/60Hz
- 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

- Easily installs into a 3.5" hole saw cutout
- Adjustable mounting wings on remodel sleeve accommodates 3/8" to 1" ceiling thickness
- Remote driver J-Box includes 7/8" conduit knockouts and keyholes with pryouts to mechanically attach to structure
- Trim mounts to remodel sleeve with quick snap retention clips for a secure fit
- CCT Switchable: Field select one of four CCTs at installation with an integral switch accessible on the remote J-Box

### CERTIFICATIONS

- cETLus listed to UL 1598
- Can be used in direct contact with insulation (IC Rated)
- Suitable for wet locations, covered ceiling
- Certified Air Tight per ASTM E283
- 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
- EM Accessory: ETL Listed to UL 924 (for use with LiteBox® Edge-lit Remote Mount models only)

### 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)	88-164 (120V)

# LBSES-SQD-RM

EDGE-LIT SQUARE SWITCHABLE CCT  
DOWNLIGHT W/ REMOTE J-BOX



## ORDERING GUIDE

Example: LBSES-4RD-RM-CS9-WH

CATALOG #

### HOUSING

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

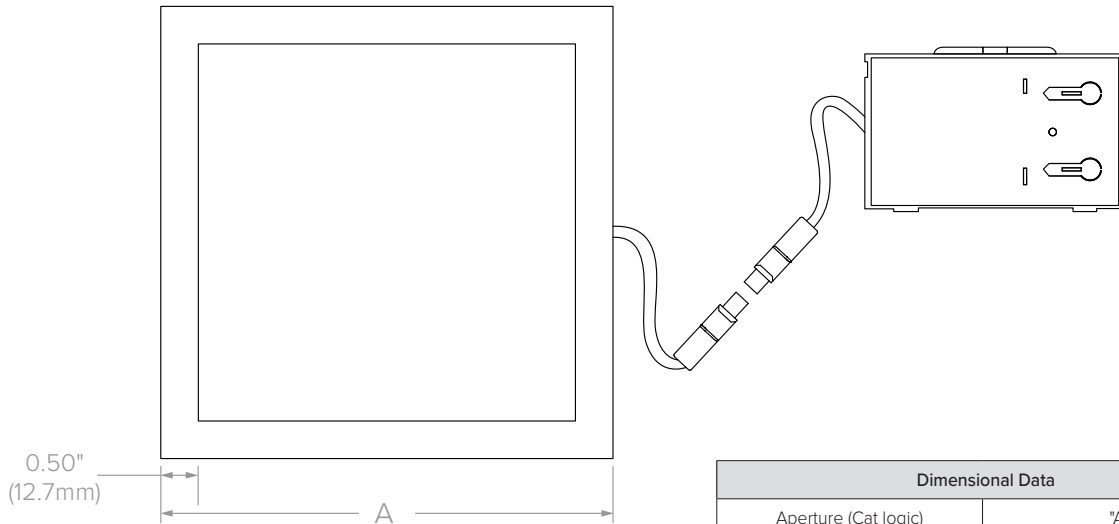
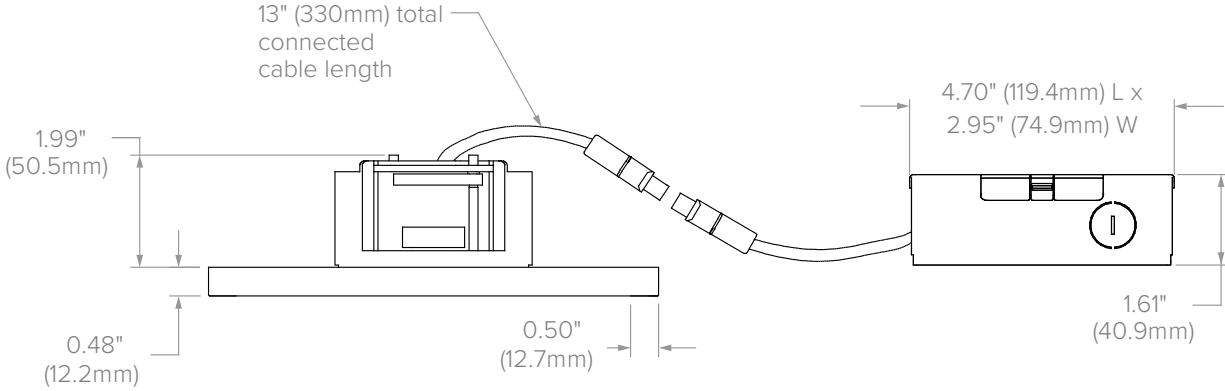
### Accessories: (Order separately)

- 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-4SQD-EM-WH** EM Accessory, 4" Square, White
- LBSE-4SQD-EM-BL** EM Accessory, 4" Square, Black
- LBSE-6SQD-EM-WH** EM Accessory, 6" Square, White
- LBSE-6SQD-EM-BL** EM Accessory, 6" Square, Black
- LBSE-8SQD-EM-WH** EM Accessory, 8" Square, White
- LBSE-8SQD-EM-BL** EM Accessory, 8" Square, Black
- LBSE-C-24-EM** Extension Cable, EM, 24"

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## 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)

Dimensional Data	
Ceiling Cutout	ø3.50" (88.9mm)
Ceiling Thickness	.38" to 1.00" (9.7mm to 25.4mm)

Recommended minimum plenum clearance: 3.50" (88.9mm)

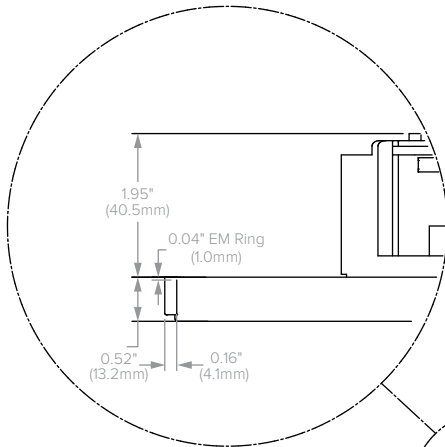
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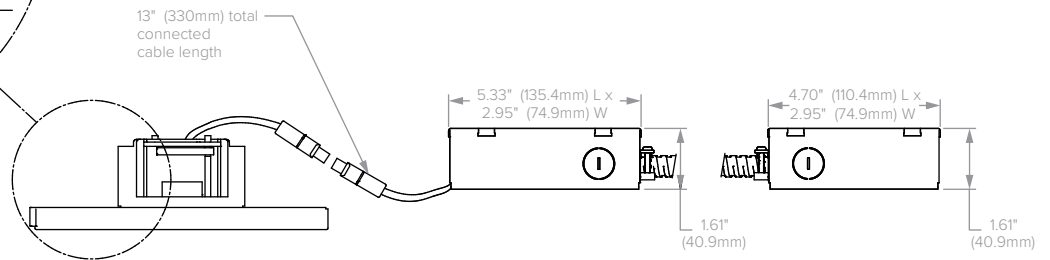
## DIMENSIONS (CONTINUED)

### WITH EM ACCESSORY (FIELD INSTALLED)

Includes Remote EM Battery Pack and EM Trim  
Ring with integral test switch/indicator light

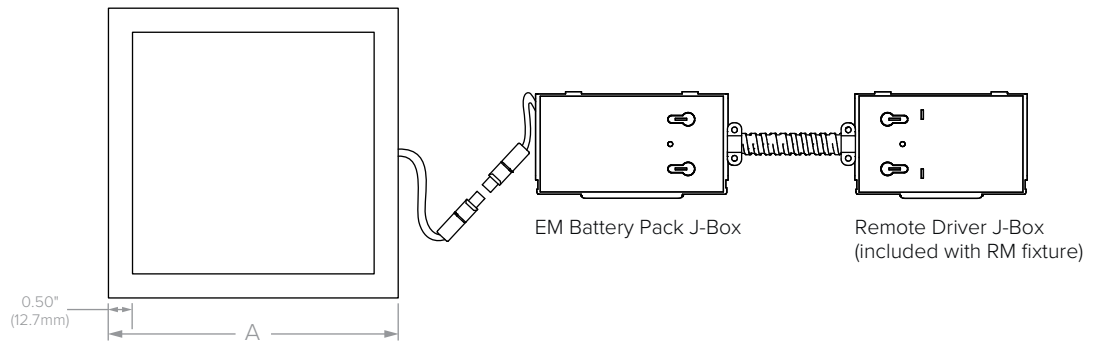


**Detail A**  
Fixture with EM Ring Installed



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)

Recommended minimum plenum clearance  
with EM installed: 4.25" (108.0mm)



**Detail View**  
EM Integral Test Switch  
with Indicator Light

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## PERFORMANCE DATA TABLE

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

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

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## PHOTOMETRY

### LBSSES-4SQD-CS9-RM-WH

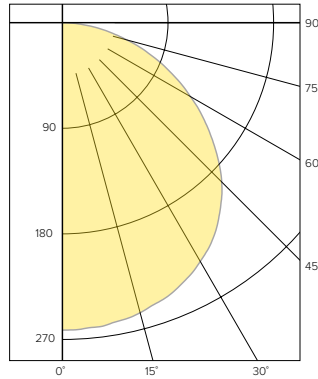
#### LUMINAIRE DATA

Test No.	R20.00829-C01
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-RM-WH

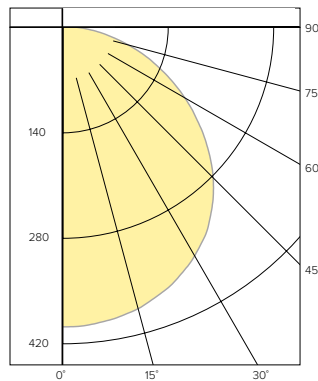
#### LUMINAIRE DATA

Test No.	R20.00835-C01
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-RM-WH

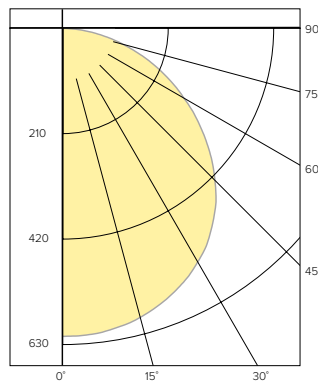
#### LUMINAIRE DATA

Test No.	R20.00837-C01
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

For more details and recommended dimmer list, see Dimming Compatibility Information at [www.currentlighting.com/prescolite](http://www.currentlighting.com/prescolite).

### EM Accessory

For more information, refer to the LiteBox Edge-Lit EM Accessory Installation Manual.

9 ft. Maximum mounting height for all aperture sizes per UL 924.

Maximum EM Extension cable length: 24"