LBSE-SQD-RM
EDGE-LIT SQUARE FIXED CCT DOWNLIGHT W/ REMOTE J-BOX

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LITEBOX® edge-lit

FEATURES

- 4", 6", and 8" aperture, delivering 750-1750 lumens
- Low surface profile of ½"
- Remote Driver J-Box included
- Quick snap installation with no housing required
- Fixed CCT (3000K or 3500K, 80+ CRI) options
- Universal 120-277V, ideal for commercial applications
- All models standard with 0-10V/Triac/ELV dimming

WET LOCATION · **ETL LISTED c US Intertek** · **ENERGY STAR** · **IC** · **AT Air Tight**
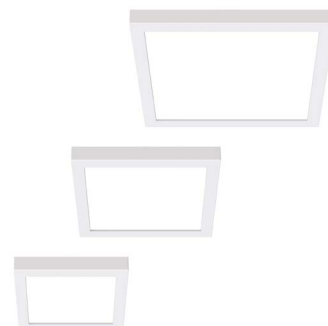
RELATED PRODUCTS

- 4" Edge-lit Family
- 6" Edge-lit Family
- 8" Edge-lit Family

SERVICE PROGRAMS

STOCK

SPECIFICATIONS

CONSTRUCTION
- Durable cast aluminum low profile trim with ½" 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

OPTICAL
- 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
- 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

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
- EM Accessory: ETL Listed to UL 924 (for use with LiteBox® Edge-lit Remote Mount models only)

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)

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PHOTOMETRY · DIMENSIONAL DRAWINGS · LBSE-SQD-RM STOCK

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STOCK

Click icons for Stock list and details

ORDERING GUIDE

Example: LBSE-4SQD-RM-35K8-WH

CATALOG #

HOUSING

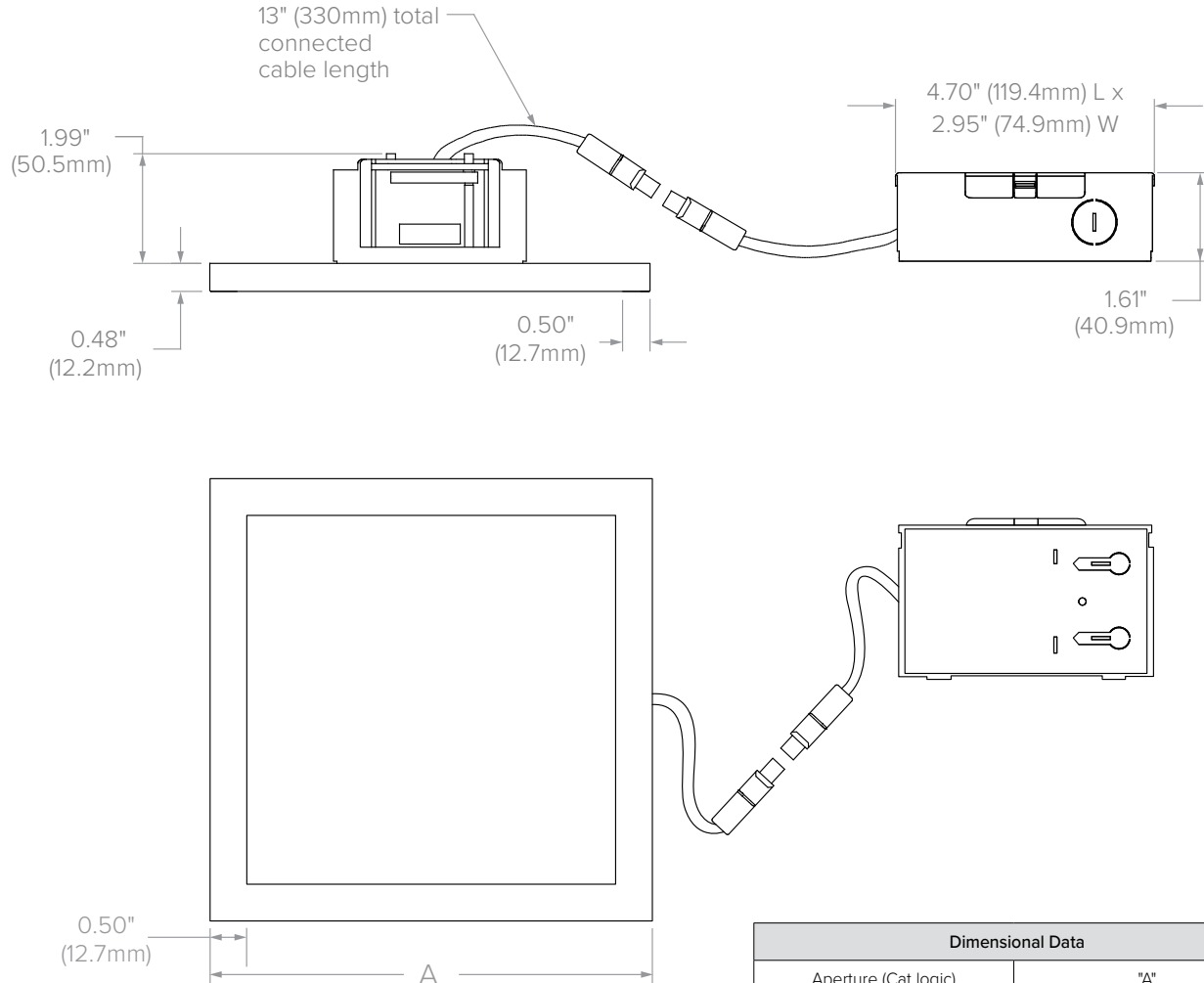| LBSE			RM		
Model/CCT Configuration		**Aperture/Shape/Function**	**Mounting**		**CCT/CRI**
LBSE Edge-Lit Surface, Fixed CCT, 120-277V with 0-10V/Triac/ELV dimming		**4SQD** 4" Square, 750 Lumens **6SQD** 6" Square, 1100 Lumens **8SQD** 8" Square, 1750 Lumens	**RM** Remote Driver J-Box		**30K8** 3000K, 80+ CRI **35K8** 3500K, 80+ CRI

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

13" (330mm) total connected cable length

1.99" (50.5mm)

0.48" (12.2mm)

0.50" (12.7mm)

4.70" (119.4mm) L x 2.95" (74.9mm) W

1.61" (40.9mm)

0.50" (12.7mm)

A

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)
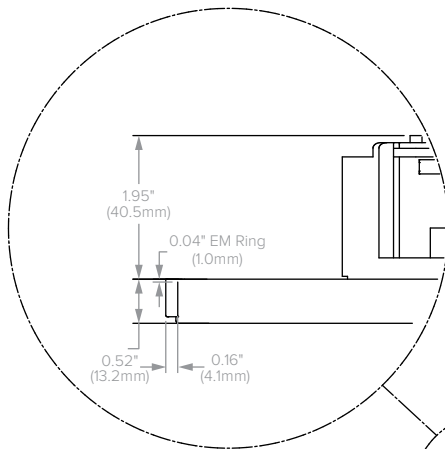
HUBBELL ® Lighting

LBSE-SQD-RM
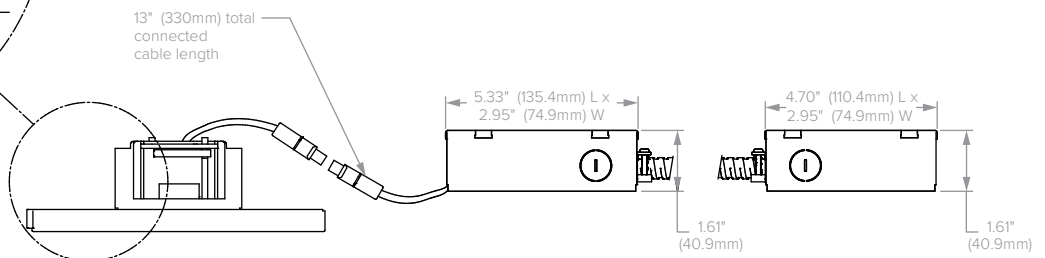EDGE-LIT SQUARE FIXED CCT DOWNLIGHT W/ REMOTE J-BOX

DIMENSIONS (CONTINUED)

WITH EM ACCESSORY (FIELD INSTALLED)
Includes Remote EM Battery Pack and EM Trim
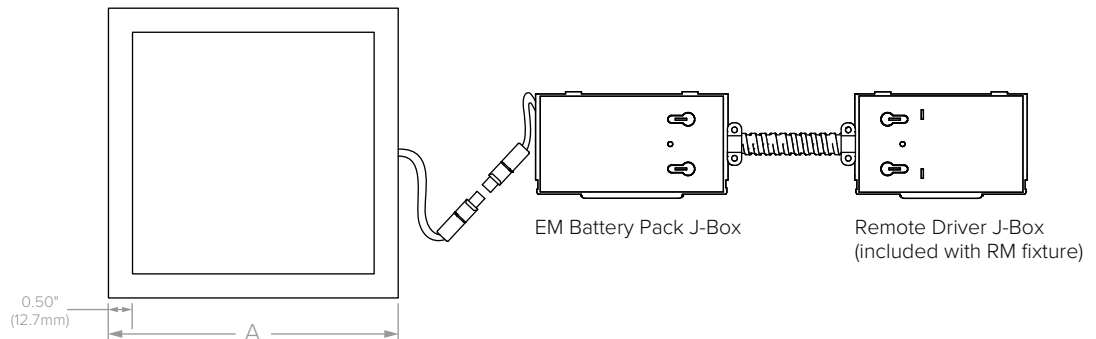Ring with integral test switch/indicator light

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)

1.95" (40.5mm)

0.04" EM Ring (1.0mm)

0.52" (13.2mm)

0.16" (4.1mm)

Detail A
Fixture with EM Ring Installed

13" (330mm) total connected cable length

5.33" (135.4mm) L x 2.95" (74.9mm) W

1.61" (40.9mm)

4.70" (110.4mm) L x 2.95" (74.9mm) W

1.61" (40.9mm)

0.50" (12.7mm)

A

EM Battery Pack J-Box

Remote Driver J-Box
(included with RM fixture)

Test   Indicator

Detail View
EM Integral Test Switch
with Indicator Light

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

PERFORMANCE DATA TABLE

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

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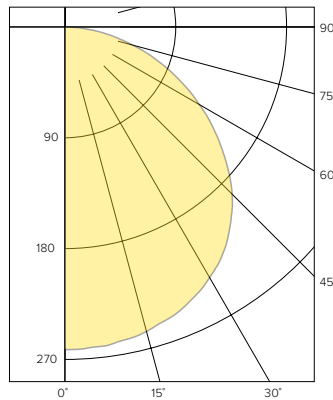
PHOTOMETRY

LBSE-4SQD-30K8-RM-WH

LUMINAIRE DATA

Test No.	R20.00830-C01
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

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LUMINAIRE DATA

Test No.	R20.00831-C01
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
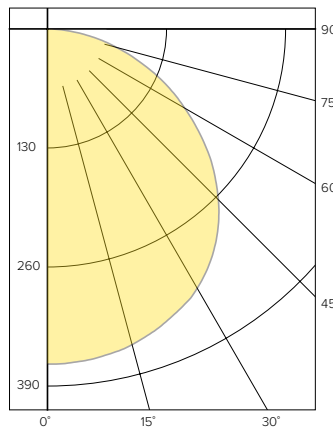
CANDELA DISTRIBUTION

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-RM-WH

LUMINAIRE DATA

Test No.	R20.00833-C01
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
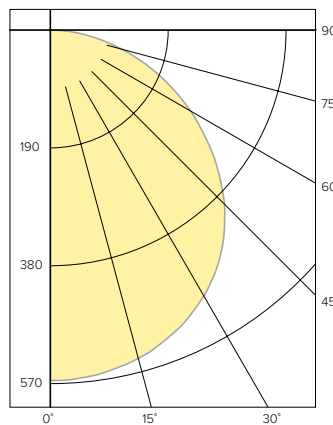
CANDELA DISTRIBUTION

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

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ADDITIONAL INFORMATION

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

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"