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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

# LBSES-RD

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

LITEBOX® edge-lit

## FEATURES

- 4", 6", 8", and 12" apertures, delivering 900–2400 lumens
- Low surface profile of ½"
- Quick snap installation with no housing required
- Installs directly to most 3-½" and 4" J-Boxes
- CCT Switchable (2700K/3000K/3500K/4000K/5000K), 90+ CRI
- Universal 120–277V, ideal for commercial applications
- All models standard with 0–10V/Triac/ELV dimming



SERVICE PROGRAMS

STOCK

## SPECIFICATIONS

### CONSTRUCTION

- Durable cast aluminum low profile trim with ½" 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)
- CCT Switchable (2700K/3000K/3500K/4000K/5000K)
- 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, ≥0.875 Power Factor, <20% THD

### INSTALLATION

- Installs directly to most common 3-½" or 4" octagonal and round junction boxes with a minimum 1-½" depth including fire rated (by others)
- Metal plate mounts to the J-Box and accepts snap-in spring clips for a secure fit
- CCT Switchable Models: Field select one of five CCTs at installation with an integral switch accessible on the back of the driver

### CERTIFICATIONS

- cSAus 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
- Meets CA Title 24 High Efficacy (JA8 2019) requirements

### WARRANTY

- 5 year warranty

| KEY DATA | |
|---|---|
| Lumen Range | 945–2495 |
| Wattage Range | 9.6–20.7 |
| Efficacy Range (LPW) | 90–114* |
| Reported Life (Hours) | L80 / >54,000 |
| Input Current (mA) | 90–200 |
| Beam Angle | 106° |

*Based on 3000K, 90 CRI



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DIRECT J-BOX MOUNT DOWNLIGHT

STOCK

## ORDERING GUIDE

**Example:** LBSES2-4RD-CS9-WH

CATALOG #

### HOUSING

| LBSES2 | – | | – | CS9 | – | WH |
|---|---|---|---|---|---|---|
| **Model/CCT Configuration** | | **Aperture/Shape/Function** | | **CCT/CRI** | | **Trim Color** |
| **LBSES2** Edge-Lit Surface, Switchable CCT, 120–277V with 0–10V/Triac/ELV dimming | | **4RD** 4" Round, Direct J-Box Mount, 900 Lumens<br>**6RD** 6" Round, Direct J-Box Mount, 1500 Lumens<br>**8RD** 8" Round, Direct J-Box Mount, 1850 Lumens<br>**12RD** 12" Round, Direct J-Box Mount, 2400 Lumens | | **CS9** Switchable CCT, 90 CRI 2700K/3000K/3500K/4000K/5000K | | **WH** White |

| Accessories | |
|---|---|
| ☐ **LBSE-4RD-T-WH** | Trim Accessory, 4" Round, White |
| ☐ **LBSE-4RD-T-BL** | Trim Accessory, 4" Round, Black |
| ☐ **LBSE-4RD-T-BBZ** | Trim Accessory, 4" Round, Brushed Oil Rubbed Bronze |
| ☐ **LBSE-4RD-T-SVR** | Trim Accessory, 4" Round, Silver |
| ☐ **LBSE-6RD-T-WH** | Trim Accessory, 6" Round, White |
| ☐ **LBSE-6RD-T-BL** | Trim Accessory, 6" Round, Black |
| ☐ **LBSE-6RD-T-BBZ** | Trim Accessory, 6" Round, Brushed Oil Rubbed Bronze |
| ☐ **LBSE-6RD-T-SVR** | Trim Accessory, 6" Round, Silver |
| ☐ **LBSE-8RD-T-WH** | Trim Accessory, 8" Round, White |
| ☐ **LBSE-8RD-T-BL** | Trim Accessory, 8" Round, Black |
| ☐ **LBSE-8RD-T-BBZ** | Trim Accessory, 8" Round, Brushed Oil Rubbed Bronze |
| ☐ **LBSE-8RD-T-SVR** | Trim Accessory, 8" Round, Silver |
| ☐ **LBSE-12RD-T-WH** | Trim Accessory, 12" Round, White |
| ☐ **LBSE-12RD-T-BL** | Trim Accessory, 12" Round, Black |
| ☐ **LBSE-12RD-T-BBZ** | Trim Accessory, 12" Round, Brushed Oil Rubbed Bronze |
| ☐ **LBSE-12RD-T-SVR** | Trim Accessory, 12" Round, Silver |



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# LBSES-RD

EDGE-LIT ROUND SWITCHABLE CCT
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DATE: | LOCATION:

TYPE: | PROJECT:

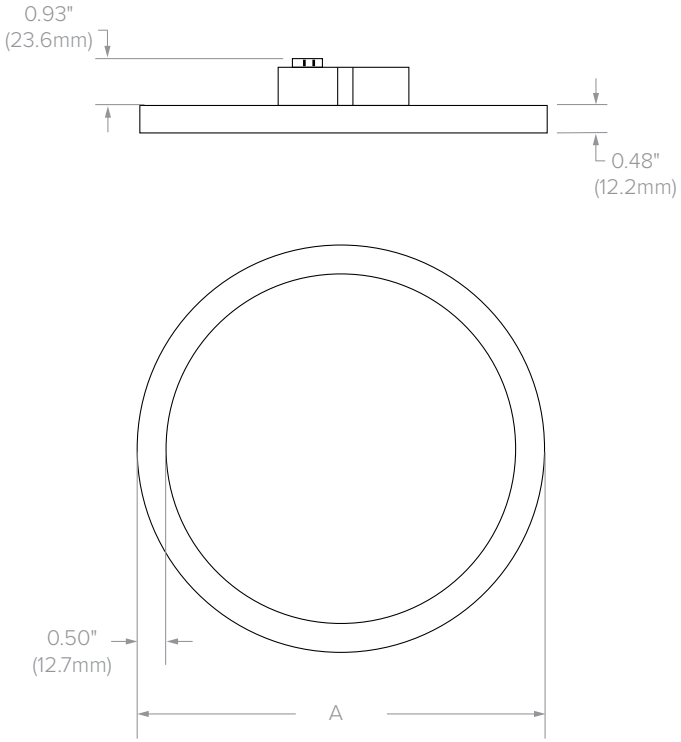
CATALOG #:

## PERFORMANCE DATA TABLE

| Nominal Aperture | Nominal Lumens | Cat # | CRI** | Delivered Lumens | Watts | LPW |
|---|---|---|---|---|---|---|
| 4" | 900 | LBSES2-4RD-CS9-WH | 90 | 945 | 9.6 | 98 |
| 6" | 1500 | LBSES2-6RD-CS9-WH | 90 | 1522 | 14.1 | 108 |
| 8" | 1850 | LBSES2-8RD-CS9-WH | 90 | 1886 | 17.6 | 107 |
| 12" | 2400 | LBSES2-12RD-CS9-WH | 90 | 2497 | 20.7 | 119 |

** Based on 3000K, for all other CCTs, use the Lumen Multiplier in Photometry Section

## DIMENSIONS




| Dimensional Data | |
|---|---|
| Aperture (Cat Logic) | "A" |
| 4" (4RD) | Ø 4.61" (117.1mm) |
| 6" (6RD) | Ø 6.00" (152.4mm) |
| 8" (8RD) | Ø 8.00" (203.2mm) |
| 12" (12RD) | Ø 12.00" (304.08mm) |



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# LBSES-RD

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DIRECT J-BOX MOUNT DOWNLIGHT

## PHOTOMETRY

### LBSES2-4RD-CS9-WH

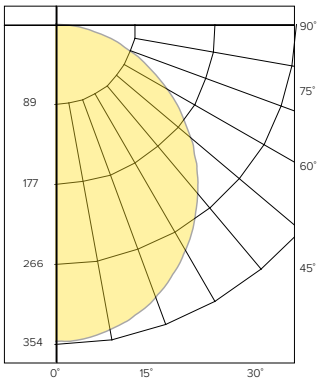
#### LUMINAIRE DATA

| | |
|---|---|
| **Test No.** | 6818425073901 |
| **Description** | 4" Downlight, Color Switchable @3000K, 90 CRI |
| **Delivered Lumens** | 955 |
| **Watts** | 9.8W |
| **Efficacy** | 97 |
| **Mounting** | Surface |
| **Spacing Criterion** | 1.3 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 435 | 45.5 |
| 0-60 | 753 | 78.8 |
| 0-90 | 955 | 99.9 |
| 0-180 | 955 | 100.0 |

#### POLAR GRAPH




#### CANDELA DISTRIBUTION

| Degree | Candela |
|---|---|
| 0 | 351 |
| 5 | 348 |
| 15 | 333 |
| 25 | 305 |
| 35 | 266 |
| 45 | 219 |
| 55 | 168 |
| 65 | 115 |
| 75 | 64 |
| 85 | 19 |
| 90 | 1 |

#### LUMINANCE DATA*

| Vertical Angle | Average |
|---|---|
| 45° | 46628 |
| 55° | 43935 |
| 65° | 40806 |
| 75° | 37223 |
| 85° | 32004 |

*Candela/Square Meter

### LBSES2-6RD-CS9-WH

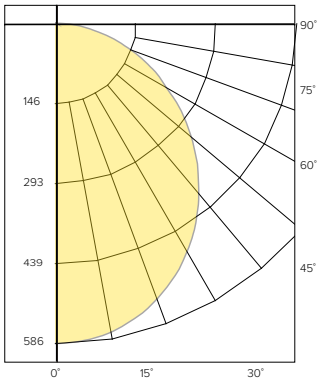
#### LUMINAIRE DATA

| | |
|---|---|
| **Test No.** | 6818425074001 |
| **Description** | 6" Downlight, Color Switchable @3000K, 90 CRI |
| **Delivered Lumens** | 1563 |
| **Watts** | 14.6W |
| **Efficacy** | 107 |
| **Mounting** | Surface |
| **Spacing Criterion** | 1.2 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 718 | 45.9 |
| 0-60 | 1238 | 79.2 |
| 0-90 | 1562 | 99.9 |
| 0-180 | 1563 | 100.0 |

#### POLAR GRAPH




#### CANDELA DISTRIBUTION

| Degree | Candela |
|---|---|
| 0 | 581 |
| 5 | 582 |
| 15 | 558 |
| 25 | 511 |
| 35 | 444 |
| 45 | 363 |
| 55 | 276 |
| 65 | 188 |
| 75 | 105 |
| 85 | 30 |
| 90 | 3 |

#### LUMINANCE DATA*

| Vertical Angle | Average |
|---|---|
| 45° | 41135 |
| 55° | 38541 |
| 65° | 35750 |
| 75° | 32460 |
| 85° | 27879 |

*Candela/Square Meter

### LBSES2-8RD-CS9-WH

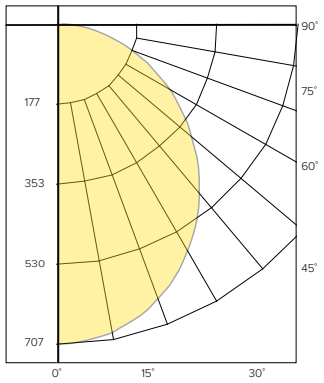
#### LUMINAIRE DATA

| | |
|---|---|
| **Test No.** | 6818425074101 |
| **Description** | 8" Downlight, Color Switchable, @3000K, 90 CRI |
| **Delivered Lumens** | 1913 |
| **Watts** | 17.8 |
| **Efficacy** | 107 |
| **Mounting** | Surface |
| **Spacing Criterion** | 1.2 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 871 | 45.5 |
| 0-60 | 1508 | 78.8 |
| 0-90 | 1911 | 99.9 |
| 0-180 | 1913 | 100.0 |

#### POLAR GRAPH




#### CANDELA DISTRIBUTION

| Degree | Candela |
|---|---|
| 0 | 703 |
| 5 | 702 |
| 15 | 673 |
| 25 | 617 |
| 35 | 537 |
| 45 | 442 |
| 55 | 337 |
| 65 | 231 |
| 75 | 130 |
| 85 | 39 |
| 90 | 1 |

#### LUMINANCE DATA*

| Vertical Angle | Average |
|---|---|
| 45° | 25663 |
| 55° | 24111 |
| 65° | 22429 |
| 75° | 20705 |
| 85° | 18409 |

*Candela/Square Meter



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# LBSES-RD

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

## PHOTOMETRY

### LBSES2-12RD-CS9-WH

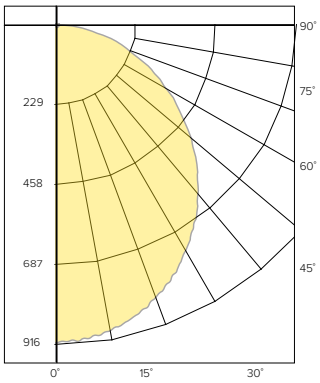
#### LUMINAIRE DATA

| | |
|---|---|
| **Test No.** | 704022507470 |
| **Description** | 12" Downlight, Color Switchable @3000K, 90 CRI |
| **Delivered Lumens** | 2497 |
| **Watts** | 21W |
| **Efficacy** | 119 |
| **Mounting** | Surface |
| **Spacing Criterion** | 1.2 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 1131 | 45.3 |
| 0-60 | 1963 | 78.8 |
| 0-90 | 2495 | 99.9 |
| 0-180 | 2497 | 100.0 |

#### POLAR GRAPH




#### CANDELA DISTRIBUTION

| Degree | Candela |
|---|---|
| 0 | 910 |
| 5 | 905 |
| 15 | 866 |
| 25 | 793 |
| 35 | 690 |
| 45 | 569 |
| 55 | 437 |
| 65 | 299 |
| 75 | 168 |
| 85 | 48 |
| 90 | 7 |

#### LUMINANCE DATA*

| Vertical Angle | Average |
|---|---|
| 45° | 13045 |
| 55° | 12321 |
| 65° | 11449 |
| 75° | 10449 |
| 85° | 8877 |

*Candela/Square Meter

#### LUMEN MULTIPLIER

| Option | 27K, 90 CRI | 30K, 90 CRI | 35K, 90 CRI | 40K, 90 CRI | 50K, 90 CRI |
|---|---|---|---|---|---|
| Multiplier | 0.98 | 1.00 | 1.02 | 1.02 | 1.01 |

Photometrics above are published at nominal 3000K, 90 CRI. This table may be used to approximate the lumen values at different Kelvin temperature settings. Power consumption remains the same.

## ADDITIONAL INFORMATION

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

**J-Box Compatibility**
LITEBOX® Edge-Lit Direct J-Box Mount downlights are compatible with many standard 3-½" and 4" octagonal and round J-Boxes with a 1-½" minimum depth. Fire rated J-Boxes may also be used.








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