

LBSD-RD

DISK SURFACE MOUNT ROUND DOWNLIGHT

LITEBOX[®] disk tradeSELECT[™]

FEATURES

- 4" and 6" disk downlight delivering 700 or 1000 lumens
- Switchable CCT – 2700K/3000K/3500K/4000K
- 90 CRI
- Universal Voltage (120-277V)
- Phase Dimmable to 5% (120V Triac/ELV)
- Surface mount directly to standard J-Box (by others)
- Optional accessory for retrofit into incandescent recessed cans



RELATED PRODUCTS

[LiteBox Family](#)

SERVICE PROGRAMS



SPECIFICATIONS

CONSTRUCTION

- Durable aluminum low profile trim
- Suitable for New Construction or Remodel, IC or Non-IC applications
- Can be directly mounted to most standard J-Boxes, ideal for areas with limited plenum space
- Optional accessory kits available to retrofit into 4", 5" or 6" recessed downlight housings

OPTICS

- Reliable back-Lit LED technology
- Durable, polycarbonate twist-on lens
- Light distribution is uniform and visually comfortable

ELECTRICAL

- LED array with 3 SDCM color consistency
- Long LED life: Maintains 70% of lumen output at 54,000 hours of operation, L70 at >54,000 hours (TM-21)
- Switchable CCT (2700K/3000K/3500K/4000K)

ELECTRICAL (CONTINUED)

- 90+ CRI with R9 >50
- High efficiency integral driver with universal 120V-277V, 50/60Hz
- All models have flicker-free dimming with 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)
- Mount with screws through pan keyholes
- Twist-lock lens is easily secured with no visible hardware
- CCT can be selected at installation with integral switch on 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 | 671-957 |
| Wattage Range | 8.2-11.5 |
| Efficacy Range (LPW) | 82-87 |
| Reported Life (Hours) | L70 / >54,000 |
| Input Current (mA) | 68-96 |

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 = Service Program



Click icon for Stocked item list

ORDERING GUIDE

Example: LBSD-4RD-CS9-WH

CATALOG #

HOUSING

| LBSD | | CS9 | WH |
|--|---|--|-----------------|
| Model/CCT Configuration | Aperture/Shape/Function | CCT/CRI | Trim Color |
| LBSD Disk Surface Mount, Switchable CCT, 120-277V with Phase Dimming (120V Triac/ELV) to 5% ¹ | 4RD 4" Round, Direct J-Box Mount, 700 Lumens 6RD 6" Round, Direct J-Box Mount, 1000 Lumens | CS9 Switchable CCT, 90 CRI 2700K/3000K/3500K/4000K | WH White |

Accessories

Notes:
1 Phase (Triac/ELV) dimming when connected to 120V circuit only.

- LBSD-4-MTGKIT** Accessory Kit, to retrofit LBSD-4RD into existing 4" recessed housings
- LBSD-6-MTGKIT** Accessory kit, to retrofit LBSD-6RD into existing 5" or 6" recessed housings

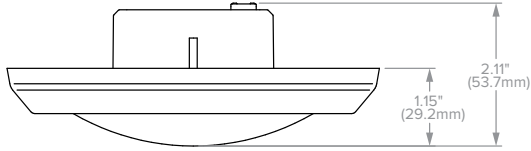
PERFORMANCE SUMMARY

| Nominal Aperture | Nominal Lumens | Cat # | @ CCT | CRI | Delivered Lumens | Watts | LPW |
|------------------|----------------|-----------------|-------|-----|------------------|-------|-----|
| 4" | 700 | LBSD-4RD-CS9-WH | 2700K | 90 | 671 | 8.2 | 82 |
| 4" | 700 | | 3000K | 90 | 693 | 8.2 | 85 |
| 4" | 700 | | 3500K | 90 | 705 | 8.2 | 86 |
| 4" | 700 | | 4000K | 90 | 712 | 8.2 | 87 |
| 6" | 1000 | LBSD-6RD-CS9-WH | 2700K | 90 | 938 | 11.5 | 82 |
| 6" | 1000 | | 3000K | 90 | 952 | 11.5 | 83 |
| 6" | 1000 | | 3500K | 90 | 959 | 11.5 | 83 |
| 6" | 1000 | | 4000K | 90 | 957 | 11.5 | 83 |

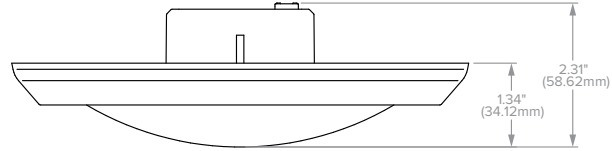
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DISK SURFACE MOUNT ROUND DOWNLIGHT

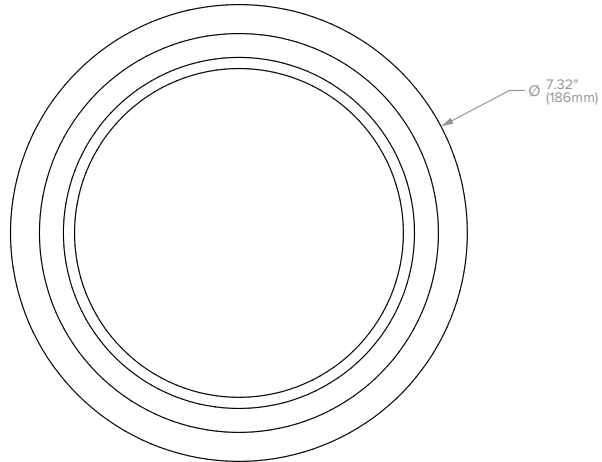
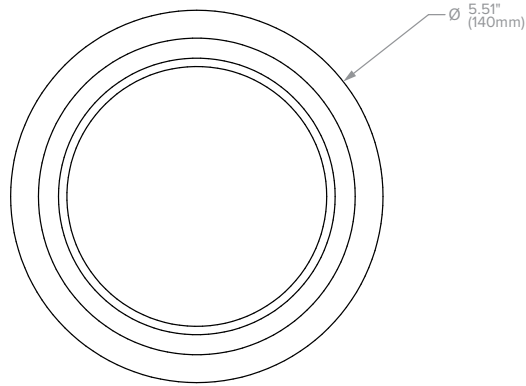
DIMENSIONS



4" LBSD-4RD



6" LBSD-6RD



PHOTOMETRY

LBSD-4RD-CS9-WH

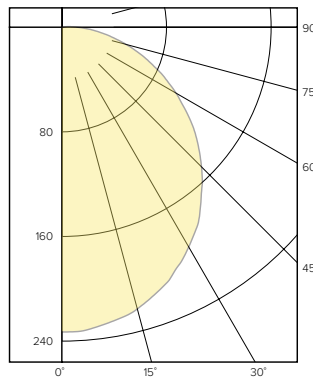
LUMINAIRE DATA

| | |
|-------------------|---|
| Test No. | 21.01425-02 |
| Description | 4" Disk, Switchable CCT, @3000K, 90 CRI |
| Delivered Lumens | 693 |
| Watts | 8.2 |
| Efficacy | 83 |
| Mounting | Surface |
| Beam Angle (FWHM) | 1.2 |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 297 | 42.9 |
| 0-60 | 522 | 75.4 |
| 0-90 | 687 | 99.2 |
| 0-180 | 693 | 100.0 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 236 |
| 5 | 235 |
| 15 | 226 |
| 25 | 208 |
| 35 | 184 |
| 45 | 153 |
| 55 | 120 |
| 65 | 85 |
| 75 | 52 |
| 85 | 23 |
| 90 | 12 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 24732 |
| 55° | 23097 |
| 65° | 21228 |
| 75° | 18996 |
| 85° | 17279 |

*Candela/Square Meter

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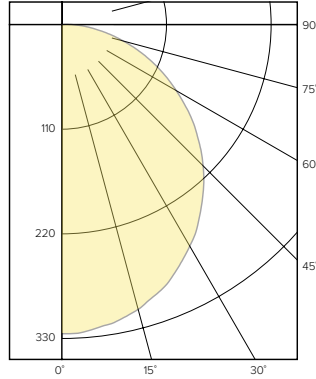
PHOTOMETRY (CONTD.)

LBSD-6RD-CS9-WH

LUMINAIRE DATA

| | |
|-------------------|---|
| Test No. | 21.01427-04 |
| Description | 6" Disk, Switchable CCT, @3000K, 90 CRI |
| Delivered Lumens | 952 |
| Watts | 11.5 |
| Efficacy | 83 |
| Mounting | Surface |
| Beam Angle (FWHM) | 1.2 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 332 |
| 5 | 330 |
| 15 | 316 |
| 25 | 291 |
| 35 | 256 |
| 45 | 214 |
| 55 | 167 |
| 65 | 117 |
| 75 | 68 |
| 85 | 27 |
| 90 | 11 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 17702 |
| 55° | 16318 |
| 65° | 14498 |
| 75° | 12023 |
| 85° | 8540 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 415 | 43.6 |
| 0-60 | 715 | 76.6 |
| 0-90 | 929 | 99.6 |
| 0-180 | 952 | 100.0 |

ADDITIONAL INFORMATION

Dimming Compatibility

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

J-box Compatibility

LiteBox® Disk Surface Mount downlights are compatible with many standard 3-1/2" octagonal and round J-Boxes with 1-1/2" minimum depth. Fire rated J-Boxes may also be used.



Retrofit Accessories

For use in existing incandescent recessed housings with nominal dimensions per installation instructions provided with the accessory.

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