

CDR6-2L

6" Architectural Round Downlight Lumen & Kelvin Selectable

| | |
|-------------------|--|
| Project: | |
| Type: | |
| Catalog #: | |



STANDARDS



HOUSING

- Premium powder-coat, aluminum, white housing.

ELECTRICAL

- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- 21.65" flexible metal conduit with additional 6" of conductor is standard.
- Input transient surge protection = 1kV.
- Type IC.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

OPTICAL SYSTEM

- Polycarbonate diffuser.
- Field selectable 2700k(soft white), 3000k(warm white), 3500k(warm/neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures*.
- Tri-Lumen selectable delivers 1,000 to 2,000 nominal lumens*.
- Long-life LEDs provide 149,000 hours of operation with at least 70% of initial lumen output (L70), and 44,000 hours with at least 90% of initial lumen output (L90)**.
- LED color maintenance < -0.0039 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Beam angle 90° for CDR6-2L-LKFS-WHT.
- Beam angle 65° for CDR6-2L-LKFS-SW.
- Color rendering index > 90.

* Factory Default kelvin temperature = 4000k and highest lumen output
 **L70 & L90 hours are IES TM-21-11 calculated hours.

MOUNTING

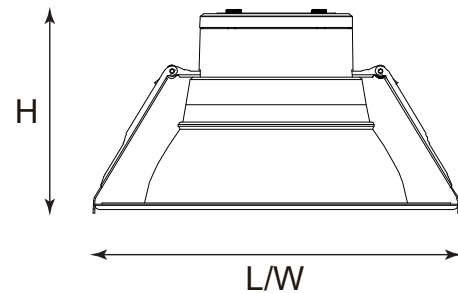
- Recessed in ceiling, new construction or retrofit.
- Access above ceiling required.
- Covered ceiling mount only.
- Compatible with 6.30" ceiling cut-outs and 6" mounting frames.

CODE COMPLIANCE

- cETLus listed for wet location.
- Energy Star certified.
- Complies with FCC part 15, class B.
- Complies with Title 24.

WARRANTY

- 5 year warranty on all electronics and housing.



| Model # | L (in) | W (in) | H (in) | Weight (lbs) | Cut Out (in) |
|------------------|--------|--------|--------|--------------|--------------|
| CDR6-2L-LKFS-WHT | 8.43 | 8.43 | 4.16 | 1.37 | 6.30 |
| CDR6-2L-LKFS-SW | 8.27 | 8.27 | 4.36 | 1.05 | 6.30 |

ORDERING INFORMATION

Example: CDR6-2L-LKFS-SW

| Series | Nominal Lumen Output (Selectable) | Kelvin (Selectable) | Baffle Type |
|--------|-----------------------------------|-------------------------------------|--|
| CDR6 | 2L 2000/ 1500/ 1000lm | LKFS 2700 / 3000/ 3500/ 4000/ 5000K | WHT Baffled White SW Specular White |

ACCESSORIES (ORDER SEPARATELY)

Mounting Option:

BL6CLED-ND = Mounting Frame for use with CDR6-2L-LKFS-WHT and CDR6-2L-LKFS-SW.

LUMEN TABLES

| Series | Mea- sure- ments | Low Lumens | | | | | Mid Lumens | | | | | High Lumens | | | | |
|----------------------|------------------------|------------|--------|--------|--------|--------|------------|-------|--------|--------|--------|-------------|-------|--------|--------|--------|
| | | 2700K | 3000K | 3500K | 4000K | 5000K | 2700K | 3000K | 3500K | 4000K | 5000K | 2700K | 3000K | 3500K | 4000K | 5000K |
| CDR6-2L- LKFS-WHT | Lumens | 1182 | 1196 | 1250 | 1201 | 1212 | 1536 | 1605 | 1682 | 1743 | 1741 | 1848 | 1937 | 2084 | 2092 | 2097 |
| | Watt | 11.95 | 11.80 | 11.60 | 11.62 | 11.88 | 16.54 | 16.29 | 15.98 | 16.01 | 16.43 | 20.66 | 20.38 | 19.92 | 19.95 | 20.54 |
| | Efficacy | 98.94 | 101.36 | 107.73 | 103.33 | 102.01 | 92.89 | 98.53 | 105.26 | 108.88 | 105.96 | 89.43 | 95.04 | 104.60 | 104.86 | 102.07 |

| Series | Mea- sure- ments | Low Lumens | | | | | Mid Lumens | | | | | High Lumens | | | | |
|---------------------|------------------------|------------|-------|--------|--------|--------|------------|-------|--------|--------|--------|-------------|--------|--------|--------|--------|
| | | 2700K | 3000K | 3500K | 4000K | 5000K | 2700K | 3000K | 3500K | 4000K | 5000K | 2700K | 3000K | 3500K | 4000K | 5000K |
| CDR6-2L- LKFS-SW | Lumens | 962 | 991 | 1022 | 1039 | 1057 | 1325 | 1372 | 1420 | 1448 | 1460 | 1738 | 1811 | 1880 | 1921 | 1936 |
| | Watt | 10.20 | 10.10 | 9.97 | 10.00 | 10.10 | 14.00 | 13.80 | 13.60 | 13.60 | 13.90 | 18.80 | 15.50 | 18.20 | 18.20 | 18.70 |
| | Efficacy | 94.33 | 98.07 | 102.50 | 103.90 | 104.69 | 94.64 | 99.41 | 104.39 | 106.47 | 105.01 | 92.45 | 116.86 | 103.28 | 105.53 | 103.51 |

ELECTRICAL DATA

| Series | CCT | Input Amps (A) | | | | | | | | |
|------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
| | | Low Lumens | | | Mid Lumens | | | High Lumens | | |
| | | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| CDR6-2L-LKFS-WHT | 2700K | 0.10 | 0.05 | 0.04 | 0.14 | 0.07 | 0.09 | 0.17 | 0.09 | 0.07 |
| | 3000K | 0.10 | 0.05 | 0.04 | 0.14 | 0.07 | 0.09 | 0.17 | 0.08 | 0.07 |
| | 3500K | 0.10 | 0.05 | 0.04 | 0.13 | 0.07 | 0.09 | 0.17 | 0.08 | 0.07 |
| | 4000K | 0.10 | 0.05 | 0.04 | 0.13 | 0.07 | 0.09 | 0.17 | 0.08 | 0.07 |
| | 5000K | 0.10 | 0.05 | 0.04 | 0.14 | 0.07 | 0.09 | 0.17 | 0.09 | 0.07 |

| Series | CCT | Input Amps (A) | | | | | | | | |
|-----------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
| | | Low Lumens | | | Mid Lumens | | | High Lumens | | |
| | | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| CDR6-2L-LKFS-SW | 2700K | 0.09 | 0.04 | 0.04 | 0.12 | 0.06 | 0.05 | 0.16 | 0.08 | 0.07 |
| | 3000K | 0.08 | 0.04 | 0.04 | 0.12 | 0.06 | 0.05 | 0.13 | 0.08 | 0.06 |
| | 3500K | 0.08 | 0.04 | 0.04 | 0.11 | 0.06 | 0.05 | 0.15 | 0.08 | 0.07 |
| | 4000K | 0.08 | 0.04 | 0.04 | 0.11 | 0.06 | 0.05 | 0.15 | 0.08 | 0.07 |
| | 5000K | 0.08 | 0.04 | 0.04 | 0.12 | 0.06 | 0.05 | 0.16 | 0.08 | 0.07 |

PHOTOMETRICS

CDR6-2L-LKFS-WHT

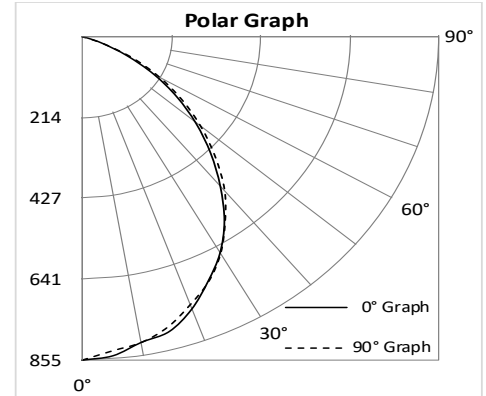
Luminaire Data

| | |
|--------------------------------|---|
| Description | Commercial Downlight Lumen/Kelvin Selectable |
| Total Lumens | 1,790 |
| Input Wattage | 21 |
| Efficacy (lm/W) | 85 |
| Spacing Criterion (0-180°) | 1.16 |
| Spacing Criterion (90-270°) | 1.16 |

Photometrics calculated at
2700k - high lumens
setting

Zonal Lumen Summary

| Zone | Lumens | %Fixt |
|---------|--------|--------|
| 0-20° | 307 | 17.1% |
| 0-30° | 639 | 35.7% |
| 0-40° | 1,015 | 56.7% |
| 20-50° | 1,059 | 59.2% |
| 40-70° | 754 | 42.1% |
| 0-60° | 1,632 | 91.2% |
| 0-80° | 1,790 | 100.0% |
| 0-90° | 1,790 | 100.0% |
| 90-180° | 0 | 0.0% |
| 0-180° | 1,790 | 100.0% |



CDR6-2L-LKFS-SW

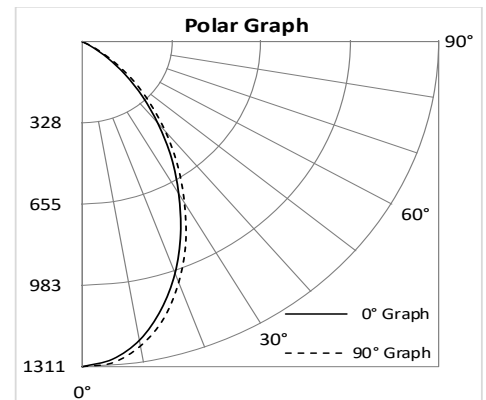
Luminaire Data

| | |
|--------------------------------|---|
| Description | Commercial Downlight Lumen/Kelvin Selectable |
| Total Lumens | 1,595 |
| Input Wattage | 18 |
| Efficacy (lm/W) | 87 |
| Spacing Criterion (0-180°) | 0.92 |
| Spacing Criterion (90-270°) | 0.96 |

Photometrics calculated at
2700k - high lumens
setting

Zonal Lumen Summary

| Zone | Lumens | %Fixt |
|---------|--------|--------|
| 0-20° | 437 | 27.4% |
| 0-30° | 835 | 52.4% |
| 0-40° | 1,199 | 75.2% |
| 20-50° | 1,017 | 63.8% |
| 40-70° | 392 | 24.6% |
| 0-60° | 1,572 | 98.6% |
| 0-80° | 1,593 | 99.9% |
| 0-90° | 1,593 | 99.9% |
| 90-180° | 2 | 0.1% |
| 0-180° | 1,595 | 100.0% |



COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer | Model Number | | | |
|--------------|--------------|--------------|------------|------------|
| | Lutron | RMJS-8T-DV-B | Diva DVSTV | MS-Z101-WH |
| Legrand | RH4FBL3PW | - | - | - |