

DLE4

Edge Lit Recessed LED Downlight

Product Description

The DLE Edge Lit LED Downlight Series offers an attractive visual aesthetic with both round and square apertures. The edge lit technology uses a reflective light guide panel that disperses light through a diffused lens, making it an effective and economical solution. The ultra-thin fixture depth and off-board driver allow for a more flexible installation and increased lifetime with improved thermal management. Eliminating the need for a J-box or recessed housing, the DLE fixture uses a plenum-rated cable connector to link the downlight module to the remote driver box and then pops into place with its adjustable, spring loaded retention tabs for a secure fit. Adding light in tight spaces such as hallways, bathrooms, basements, entry ways, porches, stairways, work areas, utility closets and corridors just got easier.

Construction

- Cast aluminum housing routes heat away from electrical components
- Edge-Lit technology allows for extremely thin fixture depth
- Adjustable, spring loaded retention tabs ensure secure fixture retention
- Certified for direct contact with insulation
- Includes gasket to meet AirTight requirements
- Square fixture has round back for easier cut in with standard hole cutters.

Optical System

- Precision engineered optical stack creates uniform light distribution that maximizes lumen output
- CCT offered at 2700K, 3000K, 4000K, 5000K
- Utilizes high performing LEDs with a greater than 90 CRI and an R9 greater than 50

Electrical

- Off-board driver minimizes installation height and maximizes fixture life through improved heat management
- Dimmable to less than 5% with compatible TRIAC dimmers
- Operating temperature of 0° to 120°F (-18°C to 49°C)
- Input voltage of 120VAC
- TM-21 Reported L70(9K) hours >54,000

Finish

- White powder coat finish standard
- Color trims available in Black, Nickel and Aged Copper
- Available in round or square configurations

Mounting and Installation

- Spring loaded retention tabs allow for easy installation into ceilings up to 3/4" (RD) or 1" (SQ) thick with no need for a recessed housing
- Off-board driver/junction box includes two 1/2" KOs and three-port poke-in connectors
- Included paper cutting template
- Metal rough in template available
- Extension power cables (2', 10', 20') available
- Suitable for damp locations

Warranty

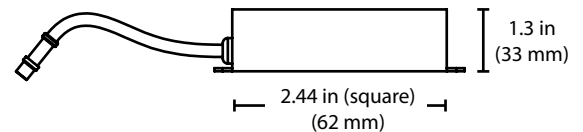
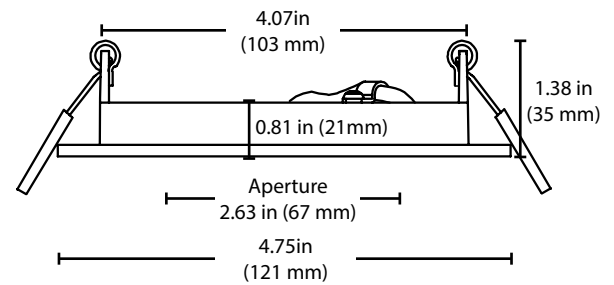
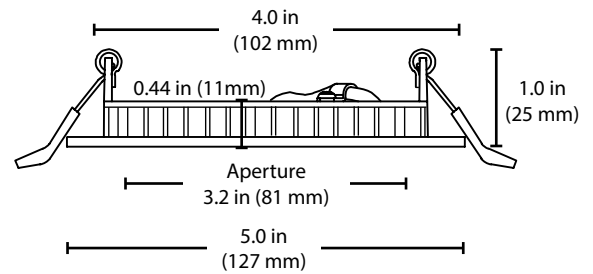
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panel

Project

Catalog

Type

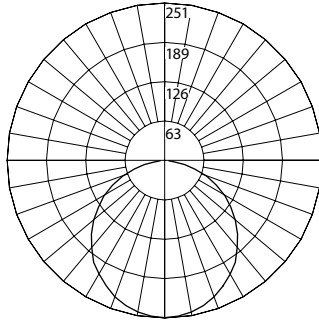
Date



Photometric Data

DLE4 2700K RD

| | |
|-----------------------------|------|
| Input Voltage (VAC) | 120V |
| System Level Power (W) | 11.0 |
| Delivered Lumens (Lm) | 710 |
| System Efficacy (Lm/W) | 64.5 |
| Correlated Color Temp (K) | 2712 |
| Color Rendering Index (CRI) | 96 |
| Beam Angle | 111° |
| Spacing Criteria | 1.24 |



Intensity Summary (Candle Power)

| Angle | Mean CP |
|-------|---------|
| 0 | 251 |
| 5 | 250 |
| 15 | 241 |
| 25 | 223 |
| 35 | 233 |
| 45 | 164 |
| 55 | 127 |
| 65 | 87 |
| 75 | 47 |
| 85 | 12 |
| 90 | 0 |

CCT Data Multiplier

| | |
|--------------|-------|
| DLE421203KRD | 1.021 |
| DLE421204KRD | 1.042 |
| DLE421205KRD | 1.076 |

Cone of Light Tabulation

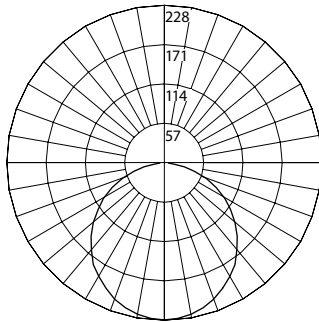
| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4 | 15.7 | 11.6 |
| 6 | 7.0 | 17.4 |
| 8 | 3.9 | 23.2 |
| 10 | 2.5 | 28.9 |
| 12 | 1.7 | 34.7 |
| 14 | 1.3 | 40.5 |
| 16 | 1.0 | 46.3 |

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30 | 194 | 27.4% |
| 0-40 | 318 | 44.8% |
| 0-60 | 558 | 78.6% |
| 0-90 | 710 | 100% |
| 90-180 | 0 | 0.0% |
| 0-180 | 710 | 100.0% |

DLE4 2700K SQ

| | |
|-----------------------------|------|
| Input Voltage (VAC) | 120V |
| System Level Power (W) | 8.3 |
| Delivered Lumens (Lm) | 567 |
| System Efficacy (Lm/W) | 68 |
| Correlated Color Temp (K) | 2718 |
| Color Rendering Index (CRI) | 93 |
| Beam Angle | 100° |
| Spacing Criteria | 1.20 |



Intensity Summary (Candle Power)

| Angle | Mean CP |
|-------|---------|
| 0 | 227 |
| 5 | 226 |
| 15 | 214 |
| 25 | 192 |
| 35 | 163 |
| 45 | 131 |
| 55 | 98 |
| 65 | 65 |
| 75 | 33 |
| 85 | 7 |
| 90 | 0 |

CCT Data Multiplier

| | |
|--------------|-------|
| DLE421203KSQ | 1.021 |
| DLE421204KSQ | 1.042 |
| DLE421205KSQ | 1.076 |

Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4 | 14.2 | 9.7 |
| 6 | 6.3 | 14.6 |
| 8 | 3.6 | 19.4 |
| 10 | 2.3 | 24.3 |
| 12 | 1.6 | 29.1 |
| 14 | 1.2 | 34.0 |
| 16 | 0.9 | 38.8 |

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30 | 170 | 30.0% |
| 0-40 | 272 | 48.0% |
| 0-60 | 460 | 81.1% |
| 0-90 | 567 | 100.0% |
| 90-180 | 0 | 0.0% |
| 0-180 | 567 | 100.0% |

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

Performance Data

| Model Number | Lumens | Watts | Lumens/Watt |
|--------------|--------|-------|-------------|
| DLE421202KRD | 710 | 11.0 | 64.5 |
| DLE421203KRD | 725 | 11.0 | 65.9 |
| DLE421204KRD | 740 | 11.0 | 67.3 |
| DLE421205KRD | 764 | 11.0 | 69.5 |
| DLE421202KSQ | 567 | 8.3 | 68.3 |
| DLE421203KSQ | 579 | 8.3 | 69.8 |
| DLE421204KSQ | 591 | 8.3 | 71.2 |
| DLE421205KSQ | 610 | 8.3 | 73.5 |

Recommended Dimmers*

Lutron Toggler TGCL-153P
Lutron Skylark SCL-153P
Lutron DIVA DVCL-153P
Leviton C22-06672-1LW
Lutron Caseta PD-6WCL

*Not a complete list. Check compatibility before installation.

Ordering Information

Example: DLE421203KRDWH

| Series | Version | Voltage | CCT's | Trim Shape | Trim Color |
|------------|----------------------|------------|--------------------|--------------------|-------------------|
| DLE | 2 (Version 2) | 120 | 2K (2700 K) | RD (Round) | WH (White) |
| | | | 3K (3000 K) | SQ (Square) | |
| | | | 4K (4000 K) | | |
| | | | 5K (5000 K) | | |

Specifications and dimensions subject to change without notice

Accessories

accessories sold separately

| | |
|--------------------------------------|--------------------|
| 4" AGED COPPER TRIM RING | DLE4-TR-AC |
| 4" BLACK TRIM RING | DLE4-TR-BK |
| 4" BRUSHED NICKEL TRIM RING | DLE4-TR-NK |
| 4" AGED COPPER SQUARE TRIM RING | DLE4-TR-SQ-AC |
| 4" BLACK SQUARE TRIM RING | DLE4-TR-SQ-BK |
| 4" BRUSHED NICKEL SQUARE TRIM RING | DLE4-TR-SQ-NK |
| Round Mounting Template (13" length) | DLE4-RD-TEMPLATE |
| 4" Rough In Template (26" length) | ROUGHIN-TEMPLATE-4 |
| 24" Extension Cable | DLE-EXTCABLE-24 |
| 10' Extension Cable | DRIVER-EXTCABLE-10 |
| 20' Extension Cable | DRIVER-EXTCABLE-20 |

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to

radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.