

DQR2

2" Square Recessed LED Downlight

Product Description

NICOR's D-Series luminaires offer a comprehensive family of LED downlight fixtures that complement one another no matter your design space needs. The new 2" family packs a punch with its small, elegant design along with its high lumen output. Not only does this family work perfect for accent and task lighting, but the lighting output allows you to bring general ambient lighting into a space with a very small, architectural exposure. From LED color rendering and trim finishes to fixture performance, this series is a perfect choice for commercial, retail, institutional, and residential applications.

Construction

- Cast aluminum trim routes heat away from electrical components
- NICOR 2" LED housing required for use of DQR2

Optical System

- TIR optic provides smooth, uniform light
- Beam spread options available: 37°(standard), 30°, or 20°

Electrical

- COB with greater than 90 CRI and an R9 greater than 50
- Dimmable to 10% with most standard triac dimmers
- Operating temperature rating of 0°F to 120°F (-18°C to 49°C)
- Lifetime rated for greater than 35,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards
- Fixture driver located on housing
- 120V input to driver

Finish

- Exterior white powder coat finish
- Also available in Black, Oil-Rubbed Bronze and Nickel *
- Smooth or baffle option available in all trim colors*

Installation

- NICOR's 2" recessed housings required: Available in remodel, new construction, and IC/ Airtight new construction
- Quick and easy installation with a snap-in IDEAL connector and friction clip mounting system

Warranty

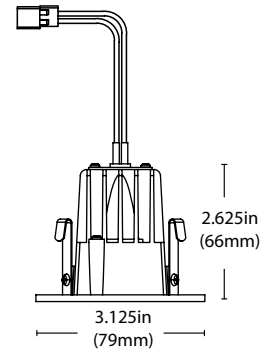
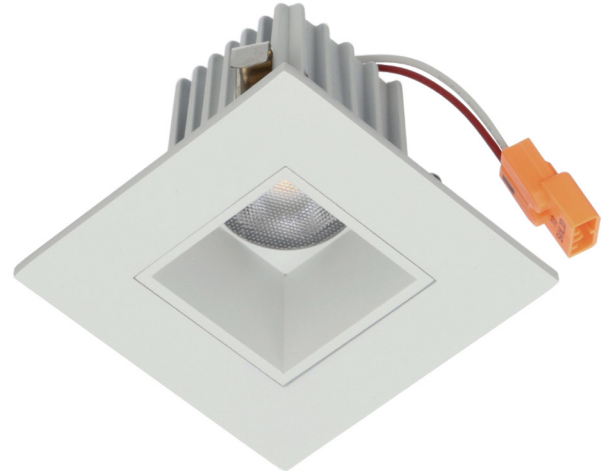
- 5-year limited system warranty standard

Project

Catalog

Type

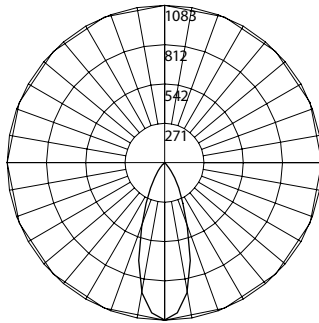
Date



Photometric Data

DQR2 2700K

| | |
|-----------------------------|-------|
| Input Voltage (VAC) | 120V |
| System Level Power (W) | 8.9 |
| Delivered Lumens (Lm) | 581 |
| System Efficacy (Lm/W) | 65.3 |
| Correlated Color Temp (K) | 2624 |
| Color Rendering Index (CRI) | 92 |
| Beam Angle | 37.8° |
| Spacing Criteria | 0.64 |



Intensity Summary (Candle Power)

| Angle | Mean CP |
|-------|---------|
| 0 | 1083 |
| 5 | 1058 |
| 15 | 731 |
| 25 | 308 |
| 35 | 122 |
| 45 | 42 |
| 55 | 17 |
| 65 | 8 |
| 75 | 3 |
| 85 | 1 |
| 90 | 0 |

CCT Data Multiplier

| | |
|----------------|-------|
| DQR2-10-120-3K | 1.081 |
| DQR2-10-120-4K | 1.182 |

Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4 | 67.7 | 2.7 |
| 6 | 30.1 | 3.8 |
| 8 | 16.9 | 5.1 |
| 10 | 10.9 | 6.4 |
| 12 | 7.5 | 7.6 |
| 14 | 5.5 | 8.9 |
| 16 | 4.2 | 10.1 |

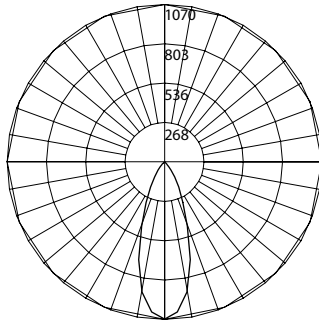
Zonal Lumen Summary

| Zone | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30 | 440 | 75.7% |
| 0-40 | 518 | 89.2% |
| 0-60 | 568 | 97.7% |
| 0-90 | 581 | 100.0% |
| 90-180 | 0 | 0.0% |
| 0-180 | 581 | 100.0% |

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

DQR2 2700K BF

| | |
|-----------------------------|-------|
| Input Voltage (VAC) | 120V |
| System Level Power (W) | 8.9 |
| Delivered Lumens (Lm) | 574 |
| System Efficacy (Lm/W) | 64.5 |
| Correlated Color Temp (K) | 2631 |
| Color Rendering Index (CRI) | 92 |
| Beam Angle | 37.8° |
| Spacing Criteria | 0.64 |



Intensity Summary (Candle Power)

| Angle | Mean CP |
|-------|---------|
| 0 | 1070 |
| 5 | 1045 |
| 15 | 723 |
| 25 | 304 |
| 35 | 121 |
| 45 | 42 |
| 55 | 17 |
| 65 | 8 |
| 75 | 3 |
| 85 | 1 |
| 90 | 0 |

CCT Data Multiplier

| | |
|-------------------|-------|
| DQR2-10-120-3K-BF | 1.081 |
| DQR2-10-120-4K-BF | 1.182 |

Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4 | 66.9 | 4.7 |
| 6 | 29.8 | 7.8 |
| 8 | 16.7 | 9.1 |
| 10 | 10.7 | 10.4 |
| 12 | 7.4 | 13.6 |
| 14 | 5.5 | 14.9 |
| 16 | 4.2 | 16.1 |

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30 | 435 | 75.7% |
| 0-40 | 512 | 89.2% |
| 0-60 | 561 | 97.7% |
| 0-90 | 574 | 100.0% |
| 90-180 | 0 | 0.0% |
| 0-180 | 574 | 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 |
|-------------------|--------|-------|-------------|
| DQR2-10-120-2K | 581 | 8.9 | 65.3 |
| DQR2-10-120-3K | 628 | 8.9 | 70.6 |
| DQR2-10-120-4K | 687 | 8.9 | 77.2 |
| DQR2-10-120-2K-BF | 574 | 8.9 | 64.5 |
| DQR2-10-120-3K-BF | 620 | 8.9 | 69.7 |
| DQR2-10-120-4K-BF | 679 | 8.9 | 76.3 |

Recommended Dimmers*

Lutron MAESTRO MACL-153M
Lutron DIVA DVELV-300P
Lutron DIVA DVELV-303P
Lutron Skylark SELV-300P
Lutron DIVA DVCL-153P

0-10V Dimming

Housing Compatibility*

12200A-LED 2" LED IC/AT NEW CONSTRUCTION HOUSING
12201-LED-ICAT 2" LED NEW CONSTRUCTION HOUSING
12202R-LED-ICAT 2" LED REMODEL HOUSING

12300A-LED 2" 120-277V LED IC/AT NEW CONS. HOUSING

*Not a complete list. Check compatibility before installation.

Ordering Information

Example: DQR2-10-120-3K-WH-BF

| Series | Version | Housing Input Voltage | CCT's | Trim Color | Baffle | Optics |
|--------|------------|-----------------------|-------------|-------------------------|-----------------|--------------------------|
| DQR2 | 10 (v 1.0) | 120 (120V) | 2K (2700 K) | WH (White) | ___ (No Baffle) | ___ (37° Standard Optic) |
| | | | 3K (3000 K) | BK (Black)* | BF (Baffle)* | NF (30° Narrow Optic) |
| | | | 4K (4000 K) | NK (Nickel)* | | SP (20° Spot Optic) |
| | | | | OB (Oil-Rubbed Bronze)* | | |

Specifications and dimensions subject to change without notice

*Only available as special order. Contact NICOR for more info.