DQR2

2" Square Recessed LED Downlight

Project

Catalog

Type

Date

Product Description

NICOR's D-Series luminaries 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°

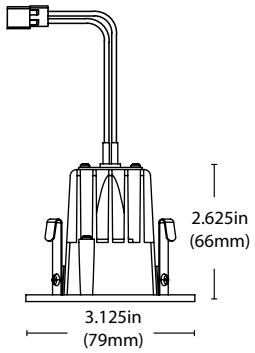
Electrical
- COB with greater than 90 CRI and an R9 greater than 50
- Dimmable to 10% with most standard triac dimmers
- Operating temperature rating of 0°F to 120°F (-18°C to 49°C)
- Lifetime rated for greater than 35,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards
- Fixture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

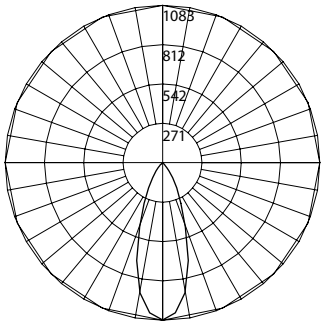




Photometric Data

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

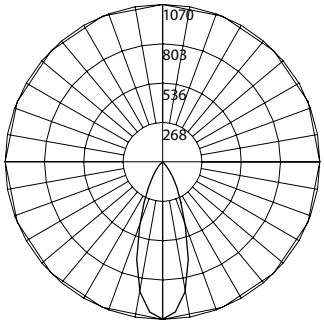
Zonal Lumen Summary

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**

**Not a complete list. Check compatibility before installation.*

Housing Compatibility*

12200A-LED	2" LED IC/AT NEW CONSTRUCTION HOUSING
12201-LED	2" LED NEW CONSTRUCTION HOUSING
12202R-LED	2" LED REMODEL HOUSING
12300A-LED	2" LED IC/AT NEW CONSTRUCTION HOUSING

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.*