

RCQ

Square Recessed LED Downlight

Product Description

The RCQ Square Recessed LED Downlight Series provides an economical and practical solution for transitioning from traditional lighting to a durable, energy-efficient LED system. This improved design delivers incredible color accuracy with 90+ CRI and an R9 >50 for true color rendering in any setting. The RCQ is available in both 4" and 6" sizes and fits most recessed housings for a seamless retrofit installation in both indoor and outdoor applications. It's perfect for residential, commercial, and retail applications that require something a bit different from ordinary downlights. The RCQ delivers exceptional functionality while enhancing the aesthetic appeal of any space.

Construction

- Durable rust-free polymer flange
- Fully captured V-springs on 6"
- Friction fit arms on 4"

Optical System

- Polystyrene diffuser creates uniform light distribution with reduced glare
- Utilizes high performing LEDs with 90+ CRI and an R9 > 60
- 5 CCT selection of 2700K/3000K/3500K/4000K/5000K (3000K as default setting)

Electrical

- Input voltage 120VAC, 60Hz
- Power factor: ≥ 0.97
- THD $\leq 20\%$
- CCT selection switch on back of housing
- Dimmable to 5% with compatible leading edge (TRIAC) or trailing edge (ELV) dimmers
- Operating temperature of -4°F to 104°F (-20°C to 40°C)

Mounting and installation

- Compatible with most 4" or 5" & 6" recessed housings
- Suitable for IC-rated housings
- Quick and easy installation with an IDEAL luminaire connector and friction fit mounting system
- Ships with Medium/E26 base socket string (GU24 socket string available)

Finish

- Matte white

Listings

- cETLus 1598 Classified for damp locations
- Energystar listed
- CA Title 24 compliant (JA8)
- Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5) for closet use
- RoHS Compliant: Free from harmful and hazardous materials
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions
- TM-21 Reported L70(10K) hours = 54,000hrs
- LM-79, LM-80 testing performed in accordance with IESNA standards
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions

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



RCQ Square Recessed LED Downlight 700 & 900 Lumens Selectable CCT



Ordering

Ordering Information

Example: RCQ61120S9WH

Series	Version	Voltage	CCT's	CRI	Trim
RCQ4 (4")	1 (Version 1.0)	120 (120VAC)	S (Select : 27/30/35/40/50K)	9 (90 CRI)	WH (White)
RCQ6 (6")					

Specifications and dimensions subject to change without notice. Please refer to the website for the most up-to-date information.

Performance Data

Performance Data				
Model Number	CCT	Lumens	Power Draw	Lumens/Watt
RCQ41120S9WH	2700	825	9.9	83.3
	3000	855		86.3
	3500	868		87.7
	4000	870		87.8
	5000	861		86.9
RCQ61120S9WH	2700	1232	13.6	90.6
	3000	1248		91.8
	3500	1281		94.2
	4000	1295		95.2
	5000	1265		93.0

Recommended Dimmers*

Lutron Maestro MACL-153M
Lutron Toggler TGCL-153PH-WH
Lutron Skylark CTCL-153PDH-WH
Lutron DIVA DVWCL-153PH-WH

*Not a complete list. Check compatibility before installation.

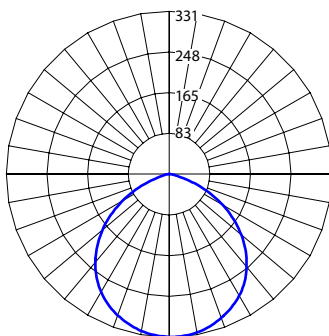
Housing Compatibility*

19000A 4" AIRTIGHT NEW CONSTRUCTION HOUSING
19000A-LED-ID 4" LED IC-RATED AIRTIGHT NEW CONSTRUCTION HOUSING
19001AR 4" AIRTIGHT REMODEL HOUSING
19001AR-LED-ID 4" LED IC-RATED AIRTIGHT REMODEL HOUSING
17014A 6" IC-RATED AIRTIGHT NEW CONSTRUCTION HOUSING
17014A-LED-ID 6" LED IC-RATED AIRTIGHT NEW CONSTRUCTION HOUSING
17014AR 6" IC-RATED AIRTIGHT REMODEL HOUSING
17014AR-LED-ID 6" LED IC-RATED AIRTIGHT REMODEL HOUSING
MOST STANDARD 4" AND 6" RECESSED HOUSINGS

Photometric Data

RCQ4 @ 2700K

Input Voltage (VAC)	120
System Level Power (W)	9.9
Delivered Lumens (Lm)	825
System Efficacy (Lm/W)	83.3
Correlated Color Temp (K)	2630
Color Rendering Index (CRI)	95 R9=63
Beam Angle (0)	104.7
Beam Angle (90)	105.0
Spacing Criteria (0)	1.26
Spacing Criteria (90)	1.28



Intensity Summary (Candle Power)

Angle	Mean CP
0	331
5	330
15	318
25	296
35	263
45	213
55	153
65	81
75	14
85	1
90	0

CCT Data Multiplier

2700K	1.000
3000K	1.036
3500K	1.052
4000K	1.054
5000K	1.043

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	20.7	10.4
6	9.2	15.6
8	5.2	20.7
10	3.3	25.9
12	2.3	31.1
14	1.7	36.3
16	1.3	41.5

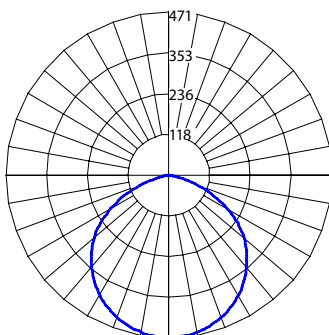
Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	257	31.2%
0-40	421	51.0%
0-60	721	87.3%
0-90	825	100%
90-180	0	0%
0-180	825	100%

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

RCQ6 @ 2700K

Input Voltage (VAC)	120
System Level Power (W)	13.6
Delivered Lumens (Lm)	1232
System Efficacy (Lm/W)	90.6
Correlated Color Temp (K)	2689
Color Rendering Index (CRI)	95 R9=63
Beam Angle (0)	108.7
Beam Angle (90)	109.4
Spacing Criteria (0)	1.28
Spacing Criteria (90)	1.28



Intensity Summary (Candle Power)

Angle	Mean CP
0	469
5	467
15	453
25	423
35	377
45	317
55	236
65	138
75	27
85	2
90	0

CCT Data Multiplier

2700K	1.000
3000K	1.013
3500K	1.040
4000K	1.051
5000K	1.027

Cone of Light Tabulation

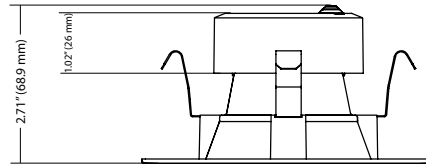
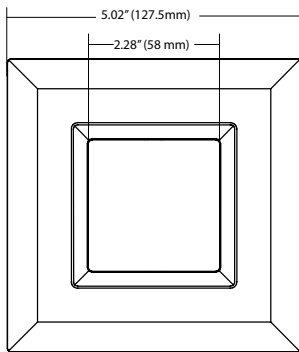
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	29.4	10.4
6	13.1	15.6
8	7.3	20.7
10	4.7	25.9
12	3.2	31.1
14	2.4	36.3
16	1.8	41.5

Zonal Lumen Summary

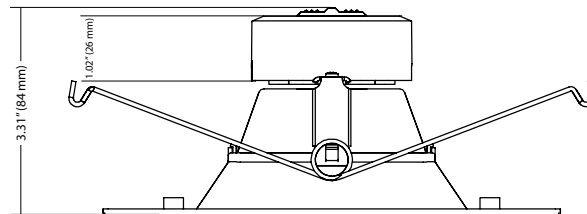
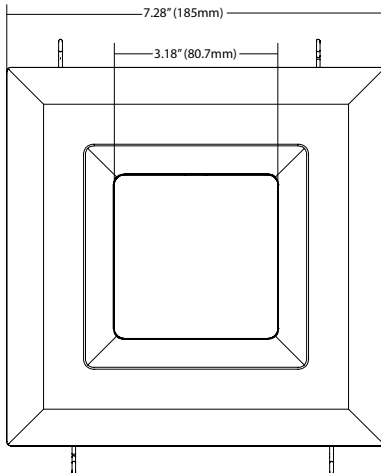
Zone	Lumens	% of Luminaire
0-30	366	29.7%
0-40	601	48.8%
0-60	1053	85.5%
0-90	1232	100%
90-180	0	0%
0-180	1232	100%

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

RCQ4



RCQ6



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.