

RRD2

2" Recessed LED Downlight

Product Description

The RRD2 LED Downlight allows you to bring general ambient lighting into a space with small, architectural exposure. The high performing light engine with off-board driver allows for more flexible installations and increased lifetime with improved thermal management. The RRD offers two wattage levels and round and square trims in flanged and flange-less designs to meet any design need. The 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, eliminating the need for a J-box or recessed housing. Adding ambient or accent lighting in areas such as living rooms, hallways, art niches and display cases is now easier than ever.

Construction

- Cast aluminum trim
- Forged aluminum heatsink for superior thermal management
- Spring loaded retention tabs on trim ensure secure fixture retention
- Anodized aluminum junction box for superior thermal management

Optical System

- TIR optic provides smooth, uniform light with a 38° beam angle
- Dual emitter COB enables CCT selection of 2700K, 3000K, 3500K, 4000K, or 5000K
- Utilizes high performing LEDs with 90+ CRI and an R9 > 60

Electrical

- Input voltage 120VAC, 60Hz
- Available in 8W and 14W models
- CCT selection switch on driver housing
- Dimmable to <10% 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

- Spring loaded retention arms allow for use without a recessed housing
- Off-board driver/junction box includes two 1/2" KOs and three-port poke-in connectors
- Junction box sized to fit through 2" cut out for new and retrofit installations

Finish

- Available trims include:
 - Flanged, round trims in white or black finish
 - Flanged, square trims in white or black finish
 - Flangeless (mud ring), round trims in white or black
 - Flangeless (mud ring), square trims in white or black

Listings

- cETLus 1598 Classified for wet locations
- ENERGYSTAR Downlights 1.0 listed
- CA Title 24 compliant (JA8)
- Certified for direct contact with insulation (IC-Rated)
- Meets Air Tight requirements per ASTM E283
- 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
- ICES-005 Compliant
- LED lumen maintenance: L70(9k)>50,000 hrs
- LM-79, LM-80 testing performed in accordance with IESNA standards

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



RRD 2" Recessed LED Downlight 690 & 1100 Lumens Selectable CCT



Ordering

Ordering Information

Example: RRD2108120S9TRRDWH

Series	Diameter	Version	Wattage	Input VAC	CCT	CRI	Style	Shape	Finish Color
RRD	2	1	08 (8 watt)	120	S (Selectable) (27/30/35/40/50K)	9 (90+)	TR (Flanged)	RD (Round)	WH (White)
			14 (14 watt)				MR (Mud Ring)	SQ (Square)	BK (Black)

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

Accessories

accessories sold separately

RRD21OP24	24° Optic
RRD21OP60	60° Optic
ROUGHIN-TEMPLATE-2	2" Rough In Template



Replacement Parts

RRD2108120S9	8W Light Engine and Driver
RRD2114120S9	14W Light Engine and Driver
RRD21TRRDWH	Round White Flanged Trim
RRD21TRSQWH	Square White Flanged Trim
RRD21TRRDBK	Round Black Flanged Trim
RRD21TRSQBK	Square Black Flanged Trim
RRD21MRRDWH	Round White Mud Ring Trim
RRD21MRSQWH	Square White Mud Ring Trim
RRD21MRRDBK	Round Black Mud Ring Trim
RRD21MRSQBK	Square Black Mud Ring Trim



Performance Data

Performance Data				
Wattage	CCT	Lumens	Wattage	Lumens/Watt
8W	2700	693	7.71	89.9
	3000	726	7.60	95.5
	3500	750	7.42	101.1
	4000	758	7.49	101.2
	5000	759	7.76	97.8
14W	2700	1120	13.2	84.8
	3000	1202	12.8	93.9
	3500	1237	12.5	99.0
	4000	1252	12.6	99.4
	5000	1218	13.3	91.6

Recommended Dimmers¹

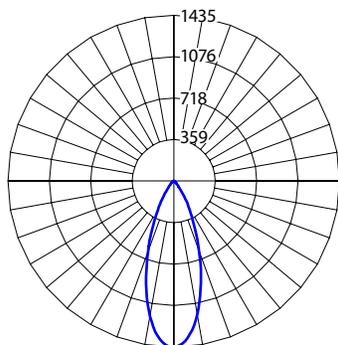
Lutron Skylark SCL-153P
Lutron DIVA DVELV-303P
LEVITON C22-06672-1LW

¹Not a complete list. Check compatibility before installation.

Photometric Data

RRD2 @ 8W, 3000K

Input Voltage (VAC)	120
System Level Power (W)	7.6
Delivered Lumens (Lm)	726
System Efficacy (Lm/W)	95.5
Correlated Color Temp (K)	3158
Color Rendering Index (CRI)	96 R9=76
Beam Angle (°)	37.5
Spacing Criteria	0.62



Intensity Summary (Candle Power)

Angle	Mean CP
0	1434
5	1364
15	914
25	411
35	138
45	41
55	20
65	10
75	4
85	1
90	0

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	89.5	2.7
6	39.5	4.1
8	22.0	5.4
10	13.9	6.8
12	9.5	8.1

Zonal Lumen Summary

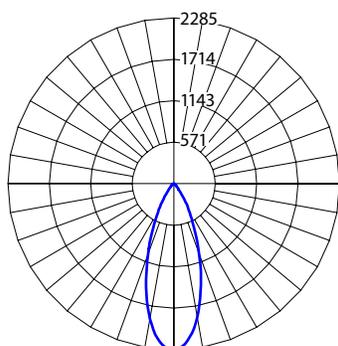
Zone	Lumens	% of Luminaire
0-30	571	78.7%
0-40	660	90.9%
0-60	711	97.9%
0-90	726	100%
90-180	0	0%
0-180	726	100%

CCT Data Multiplier

2700K	0.955
3000K	1.000
3500K	1.033
4000K	1.044
5000K	1.045

RRD2 @ 14 W, 3000K

Input Voltage (VAC)	120
System Level Power (W)	12.8
Delivered Lumens (Lm)	1204
System Efficacy (Lm/W)	94.1
Correlated Color Temp (K)	3096
Color Rendering Index (CRI)	95 R9=73
Beam Angle (°)	38.0
Spacing Criteria	0.60



Intensity Summary (Candle Power)

Angle	Mean CP
0	2283
5	2180
15	1443
25	665
35	202
45	70
55	34
65	17
75	7
85	1
90	0

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	142.2	2.8
6	62.8	4.1
8	35.0	5.5
10	22.1	6.9
12	15.1	8.3

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	934	77.6%
0-40	1087	90.2%
0-60	1178	97.8%
0-90	1204	100%
90-180	0	0%
0-180	1204	100%

CCT Data Multiplier

2700K	0.932
3000K	1.000
3500K	1.029
4000K	1.042
5000K	1.013

Dimensions

