

# RSD

## Surface Mount LED Downlight

### Product Description

The RSD Single CCT Downlight offers a thin installation solution designed to fit the tightest of spaces. Installation is easier than ever with the twist lock diffuser that can be removed during installation. The direct box mount ensure it sits flush to the ceiling for a clean and professional look. Available in your choice of 2700K, 3000K, 4000K or 5000K CCT depending on your desired light temperature. Perfect for bringing even illumination to any area of your home.

#### Construction

- Stamped steel body
- Twist-lock diffuser allows for easy removal during installation

#### Optical System

- Molded polymer, UV stabilized diffuser maximizes light output.
- Convex diffuser creates uniform light distribution while reducing glare

#### Electrical

- Input voltage of 120VAC, 60Hz
- Dimmable to 5% with compatible leading edge (TRIAC) and trailing edge (ELV) dimmers

#### LED

- Utilizes high performing LEDs with 90+ CRI and an R9 > 50
- Available in 2700K, 3000K, 4000K, or 5000K CCTs
- Binned within 4-step MacAdams with  $duv < \pm 0.003$

#### Finish

- Matte powder coat finish available in White

#### Mounting and Installation

- Easy installation in any 4" pancake, 4" non-metallic or 4/O junction box
- Keyhole mounting slots allow for quick installation to junction boxes
- Operating temperature of -4° to 104°F (-20°C to 40°C)
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panel

#### Listings

- LM-79, LM-80 testing performed in accordance with IESNA standards
- cETLus 1598 Listed for wet locations
- ENERGYSTAR Listed (RSD611203KWH Only)
- Suitable for use in closets : Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- RoHS Compliant
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions
- TM-21 Reported L70(9k) life >54,000 hours

#### Warranty

- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

Project

Catalog

Type

Date



**RSD**  
4", 6", 8" Surface Mount LED Downlight  
600, 900, 1100 lumen



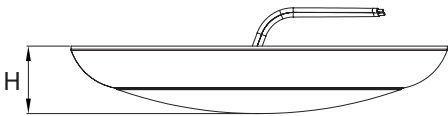
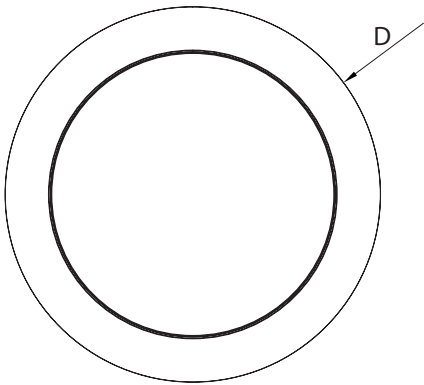
**NICOR**

Ordering

Ordering Information				Example: RSD611203KWH
Series	Version	Voltage	CCT's	Trim Color
RSD4	1	120	2K (2700K)	WH (White)
RSD6			3K (3000K)	
RSD8			4K (4000K)	
			5K (5000K)	

Specifications and dimensions subject to change without notice

Dimensions

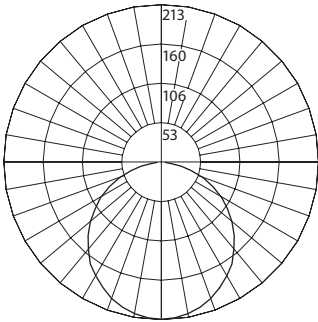


Dimensions		
Fixture	Diameter (D)	Height (H)
RSD4	6.2" (157mm)	1.2" (31mm)
RSD6	7.4" (188mm)	1.3" (34mm)
RSD8	9.4" (240mm)	1.3" (34mm)

Photometric Data

RSD4 2700K	
Input Voltage (VAC)	120V
System Level Power (W)	10.7
Delivered Lumens (Lm)	631
System Efficacy (Lm/W)	59
Correlated Color Temp (K)	2708
Color Rendering Index (CRI)	93 R9=59
Beam Angle	112
Spacing Criteria	1.33

CCT Data Multiplier	
3000K	1.029
4000K	1.056
5000K	1.078



Intensity Summary (Candle Power)	
Angle	Mean CP
0	213
5	212
15	208
25	198
35	180
45	151
55	112
65	71
75	38
85	15
90	8

Cone of Light Tabulation		
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	13.3	11.9
6	5.9	17.8
8	3.3	23.8
10	2.1	29.7

Zonal Lumen Summary		
Zone	Lumens	% of Luminaire
0-30	170	26.9%
0-40	282	44.7%
0-60	496	78.7%
0-90	631	100%
90-180	0	0%
0-180	631	100%

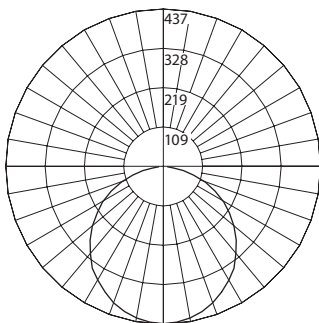
Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.



## Photometric Data

### RSD6 3000K

Input Voltage (VAC)	120V
System Level Power (W)	15.98
Delivered Lumens (Lm)	1333
System Efficacy (Lm/W)	83.4
Correlated Color Temp (K)	3000
Color Rendering Index (CRI)	93 R9=52
Beam Angle	114
Spacing Criteria	1.28



#### Intensity Summary (Candle Power)

Angle	Mean CP
0	436
5	435
15	420
25	391
35	350
45	297
55	236
65	168
75	99
85	43
90	25

#### Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	27.3	13.6
6	12.1	20.4
8	6.8	27.2
10	4.4	34.0

#### Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	340	25.5%
0-40	558	41.9%
0-60	996	74.7%
0-90	1314	98.6%
90-180	19	1.4%
0-180	1333	100%

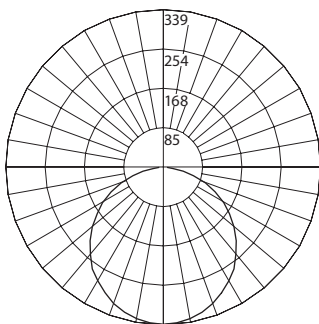
#### CCT Data Multiplier

2700K	0.7074
4000K	0.7471
5000K	0.7629

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

### RSD8 2700K

Input Voltage (VAC)	120V
System Level Power (W)	18.5
Delivered Lumens (Lm)	1120
System Efficacy (Lm/W)	60.5
Correlated Color Temp (K)	2720
Color Rendering Index (CRI)	94 R9=62
Beam Angle	121
Spacing Criteria	1.38



#### Intensity Summary (Candle Power)

Angle	Mean CP
0	338
5	338
15	333
25	321
35	299
45	260
55	206
65	141
75	79
85	32
90	16

#### Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	21.1	14.2
6	9.4	21.3
8	5.3	28.4
10	3.4	35.5

#### Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	274	24.5%
0-40	460	41.1%
0-60	845	75.5%
0-90	1120	100%
90-180	0	0%
0-180	1120	100%

#### CCT Data Multiplier

3000K	1.029
4000K	1.056
5000K	1.078

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
RSD411202KWH	631		59.0
RSD411203KWH	649	10.7	60.7
RSD411204KWH	666		62.2
RSD411205KWH	680		63.6
RSD611202KWH	943		60.1
RSD611203KWH	1333	15.7	83.4
RSD611204KWH	996		63.4
RSD611205KWH	1017		64.8
RSD811202KWH	1120		60.5
RSD811203KWH	1152	18.5	62.3
RSD811204KWH	1183		63.9
RSD811205KWH	1207		65.2

#### Recommended Dimmers\*

Lutron Diva DVCL-153P  
Lutron Maestro MACL-153M  
Eaton Cooper SLC03P  
Leviton IPL06  
Lutron DIVA DVELV-300P

#### Housing Compatibility\*

MOST STANDARD 4" NON-METALLIC OR 4/O JUNCTION BOXES

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

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.