

RSDS

Surface Mount LED Downlight

Product Description

The RSD Selectable Surface Mount 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 for installation. The direct box mount ensure it sits flush to the ceiling for a clean and professional look. CCT Selectable with 2700/3000/3500/4000/5000K allows tailoring to the 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 for installation

Optical System

- Molded polymer, UV stabilized diffuser maximizes light output.
- Convex diffuser creates uniform light distribution while reducing glare
- Offered in 5CCT selection of 2700K, 3000K, 3500K, 4000K, or 5000K

Electrical

- Input voltage of 120VAC, 60Hz
- CCT switch located under lens
- Dimmable to 5% with compatible leading edge (TRIAC) and trailing edge (ELV) dimmers
- Operating temperature rating of -4°F to 104°F (-20°C to 40°C)

Finish

- White powder coat finish standard
- Optional colors of Black, Nickel, or Oil-rubbed Bronze

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
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panel

Listings

- cETLus 1598 Listed for wet locations
- ENERGYSTAR Listed
- CA Title 24/JA8 Compliant
- Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5) for closet use
- 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
- 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)

Project

Catalog

Type

Date



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



Ordering

Ordering Information

Example: RSD561120SWH

| Series | Version | Voltage | CCT's | Trim Color |
|--------|---------|---------|-------------------------------|------------------------|
| RSD4 | 1 | 120 | S (2700/3000/3500/4000/5000K) | WH (White) |
| RSD56 | | | | BK (Black) |
| RSD8 | | | | NK (Nickel) |
| | | | | OB (Oil-rubbed Bronze) |

Specifications and dimensions subject to change without notice

Performance Data

| Performance Data | | | |
|------------------|--------|-------|-------------|
| Model Number | Lumens | Watts | Lumens/Watt |
| RSD4S - 2700K | 613 | 10.89 | 56.3 |
| RSD4S - 3000K | 655 | 10.90 | 60.1 |
| RSD4S - 3500K | 643 | 10.53 | 61.1 |
| RSD4S - 4000K | 676 | 10.89 | 62.1 |
| RSD4S - 5000K | 633 | 10.66 | 59.3 |
| RSD56S - 2700K | 921 | 15.36 | 60.0 |
| RSD56S - 3000K | 999 | 15.41 | 64.8 |
| RSD56S - 3500K | 1016 | 15.31 | 66.4 |
| RSD56S - 4000K | 1025 | 15.41 | 66.5 |
| RSD56S - 5000K | 999 | 15.40 | 64.9 |
| RSD8S - 2700K | 1148 | 18.67 | 61.4 |
| RSD8S - 3000K | 1264 | 18.73 | 67.5 |
| RSD8S - 3500K | 1279 | 18.56 | 68.9 |
| RSD8S - 4000K | 1298 | 18.72 | 69.3 |
| RSD8S - 5000K | 1253 | 18.70 | 67.0 |

Recommended Dimmers*

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

*Not a complete list. Check compatibility before installation.

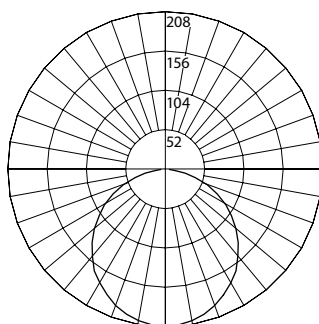
Housing Compatibility*

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

Photometric Data

RSD4S 2700K

| | |
|-----------------------------|----------|
| Input Voltage (VAC) | 120V |
| System Level Power (W) | 10.9 |
| Delivered Lumens (Lm) | 613 |
| System Efficacy (Lm/W) | 56.2 |
| Correlated Color Temp (K) | 271 |
| Color Rendering Index (CRI) | 93 R9=60 |
| Beam Angle | 111.6 |
| Spacing Criteria | 1.26 |



Intensity Summary (Candle Power)

| Angle | Mean CP |
|-------|---------|
| 0 | 208 |
| 5 | 207 |
| 15 | 199 |
| 25 | 185 |
| 35 | 163 |
| 45 | 137 |
| 55 | 107 |
| 65 | 76 |
| 75 | 45 |
| 85 | 20 |
| 90 | 12 |

Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4 | 13.0 | 11.8 |
| 6 | 5.8 | 17.7 |
| 8 | 3.2 | 23.5 |
| 10 | 2.1 | 29.4 |

Zonal Lumen Summary

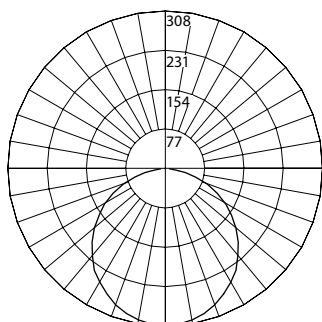
| Zone | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30 | 161 | 26.2% |
| 0-40 | 262 | 42.8% |
| 0-60 | 463 | 75.5% |
| 0-90 | 613 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 613 | 100% |

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

Photometric Data

RSD56S 2700K

| | |
|-----------------------------|----------|
| Input Voltage (VAC) | 120V |
| System Level Power (W) | 15.4 |
| Delivered Lumens (Lm) | 921 |
| System Efficacy (Lm/W) | 59.8 |
| Correlated Color Temp (K) | 2690 |
| Color Rendering Index (CRI) | 93 R9=60 |
| Beam Angle | 113.0 |
| Spacing Criteria | 1.27 |



Intensity Summary (Candle Power)

| Angle | Mean CP |
|-------|---------|
| 0 | 307 |
| 5 | 306 |
| 15 | 296 |
| 25 | 275 |
| 35 | 245 |
| 45 | 207 |
| 55 | 163 |
| 65 | 117 |
| 75 | 69 |
| 85 | 31 |
| 90 | 17 |

Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4 | 19.2 | 12.1 |
| 6 | 8.5 | 18.1 |
| 8 | 4.8 | 24.2 |
| 10 | 3.1 | 30.2 |

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30 | 238 | 25.9% |
| 0-40 | 390 | 42.4% |
| 0-60 | 692 | 75.1% |
| 0-90 | 921 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 921 | 100% |

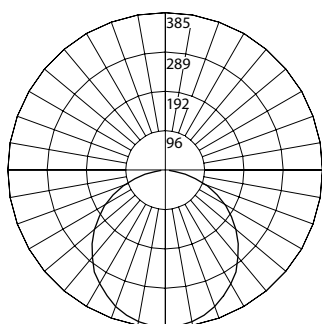
CCT Data Multiplier

| | |
|-------|-------|
| 3000K | 1.085 |
| 3500K | 1.103 |
| 4000K | 1.113 |
| 5000K | 1.085 |

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

RSD8S 2700K

| | |
|-----------------------------|----------|
| Input Voltage (VAC) | 120V |
| System Level Power (W) | 18.7 |
| Delivered Lumens (Lm) | 1148 |
| System Efficacy (Lm/W) | 61.4 |
| Correlated Color Temp (K) | 2694 |
| Color Rendering Index (CRI) | 93 R9=58 |
| Beam Angle | 113.4 |
| Spacing Criteria | 1.26 |



Intensity Summary (Candle Power)

| Angle | Mean CP |
|-------|---------|
| 0 | 384 |
| 5 | 383 |
| 15 | 369 |
| 25 | 343 |
| 35 | 305 |
| 45 | 258 |
| 55 | 203 |
| 65 | 144 |
| 75 | 85 |
| 85 | 35 |
| 90 | 17 |

Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 4 | 24.0 | 12.2 |
| 6 | 10.7 | 18.3 |
| 8 | 6.0 | 24.4 |
| 10 | 3.8 | 30.4 |

Zonal Lumen Summary

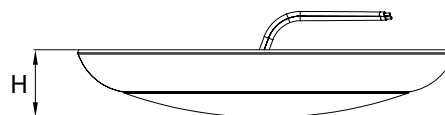
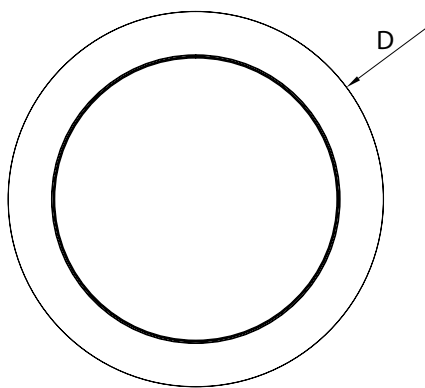
| Zone | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30 | 299 | 26% |
| 0-40 | 489 | 42.6% |
| 0-60 | 869 | 75.7% |
| 0-90 | 1148 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 1148 | 100% |

CCT Data Multiplier

| | |
|-------|-------|
| 3000K | 1.101 |
| 3500K | 1.114 |
| 4000K | 1.131 |
| 5000K | 1.092 |

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

Dimensions



Dimensions

| Fixture | Diameter (D) | Height (H) |
|---------|--------------|-------------|
| RSD4S | 6.2" (157mm) | 1.2" (31mm) |
| RSD56S | 7.4" (188mm) | 1.3" (34mm) |
| RSD8S | 9.4" (240mm) | 1.3" (34mm) |

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.