

SDR Series
Surface Mount Downlight

DATE	PROJECT
TYPE	CATALOG NO.



SDR50-S1W



SDR70-S1W



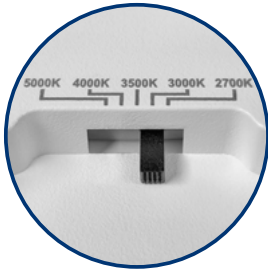
SDR90-S1W

PRODUCT OVERVIEW

FEATURES

- Available in 5-, 7-, and 9-inch diameter models
- Field selectable color temperature (CCT)
- Driver on-board design eliminates external driver for easy installation and minimizes installation height
- Closed cell gasket included for use in wet location environments
- 120V Forward or Reverse Phase Dimming down to 10%
- Optional matte black trim ring accessories

5 Selectable CCTs
2700K/3000K/3500K/4000K/5000K



Black Trim Ring available



PERFORMANCE

Catalog No.	Size	Lumen Output ¹	Input Power	CRI	Color Temperature
SDR50-S1W	5-Inch Round	900Lm	12W	90+	2700K / 3000K / 3500K / 4000K / 5000K
SDR70-S1W	7-Inch Round	1100Lm	15W		
SDR90-S1W	9-Inch Round	1500Lm	18W		

1. Values are nominal and vary based on CCT

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TECHNICAL INFORMATION

MATERIAL SPECIFICATIONS

Fixture

Polycarbonate

Bracket

Stainless steel

Sizes

Available in 5-, 7-, and 9-inch diameter models

Finish

White Painted Housing

Lens

Polycarbonate light diffuser for uniform even light distribution

LED CHARACTERISTICS

Color Temperature
Selectable CCT: 2700K / 3000K / 3500K / 4000K / 5000K
Factory default set to 3000K
Color Rendering Index

90+

R9 Value

High color performance with R9 value greater than 50

Color Consistency

<7-Step MacAdam Ellipse binning to achieve Fixture to Fixture Color Consistency

Beam Angle

106° (7"), 109° (5", 9")

LED Life

50,000 Hours @ 70% Lumen Maintenance

ELECTRICAL

Driver

Non-isolated DOB driver

Power Factor

>0.9

Input Voltage

120V

Operating Frequency

60Hz

Operating Temperature

-4°F to 104°F (-20°C to 40°C)

Dimming
120V Forward or Reverse Phase Dimming down to 10%
Flicker <30%

CERTIFICATIONS

cETLus

cETLus listed in accordance with UL 1598 and CSA C22.2 No. 250.0

Environment

Suitable for Wet Locations, covered ceilings

Energy Rating

ENERGY STAR® Certified

Title 24

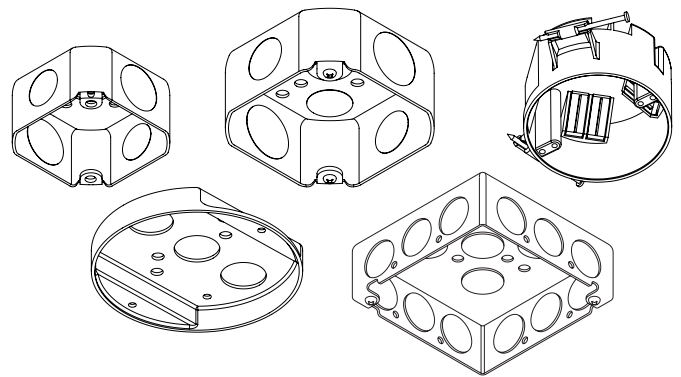
Complies with Title 24 Part 6 JA8 High Efficacy LED Light Source Requirements

National Electric Code (NEC)

Suitable for use in clothes closets when installed in accordance with NFPA® 70 Section NEC® 410.16 (A)(1) (C)(1) spacing requirements

INSTALLATION

No housing required. Secure luminaire to ceiling with included steel bracket and screws. Mounts to most standard junction boxes including shallow pancake style ceiling boxes.



Note: 4-inch Square Junction Box only compatible with 7-inch and 9-inch fixtures.

5 YEAR LIMITED WARRANTY

Leviton warrants to its customer and the original end user the LED electronics and components of its properly installed LED products, to be free of defects in material and workmanship, in normal use, for a period of five (5) years from the date of shipment by Leviton and warrants the painted finish for a period of one (1) year from the date of shipment by Leviton.

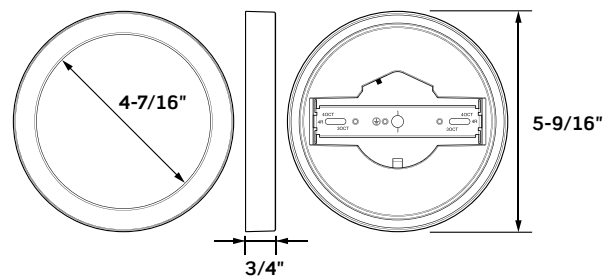
See the rest of our warranty [here](#).

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DIMENSIONS AND PHOTOMETRICS

SDR50-S1W



Performance Data

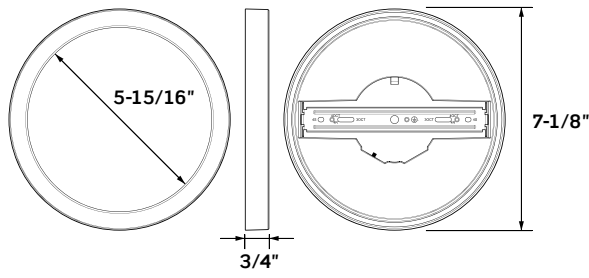
CCT	CRI	Lumens ² (Lm)	Power (W)	Lm/W
2700K	94	904	11.8	76.6
3000K	95	942	11.9	79.0
3500K	97	978	12.0	82.0
4000K	97	963	12.0	80.0
5000K	96	908	11.8	77.0

Cone of Light

Distance (Ft.)	Footcandles (FC)	Beam Dia. (Ft.)
4	21.5	11.3
6	9.5	16.9
8	5.4	22.6
10	3.4	28.2
12	2.4	33.9
14	1.8	39.5

Beam Distribution: 109°
Spacing Criterion: 1.3
Photometric results above based on 3000K

SDR70-S1W



Performance Data

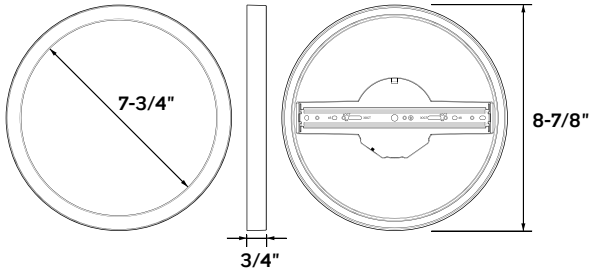
CCT	CRI	Lumens ² (Lm)	Power (W)	Lm/W
2700K	94	1129	14.3	79.0
3000K	96	1195	14.5	82.4
3500K	97	1255	14.7	85.4
4000K	97	1238	14.6	84.8
5000K	95	1166	14.4	81.0

Cone of Light

Distance (Ft.)	Footcandles (FC)	Beam Dia. (Ft.)
4	27.5	10.6
6	12.2	15.9
8	6.9	21.2
10	4.4	26.5
12	3.1	31.9
14	2.2	37.6

Beam Distribution: 106°
Spacing Criterion: 1.3
Photometric results above based on 3000K

SDR90-S1W



Performance Data

CCT	CRI	Lumens ² (Lm)	Power (W)	Lm/W
2700K	94	1477	17.3	85.4
3000K	96	1529	17.5	87.4
3500K	97	1585	17.8	89.0
4000K	97	1573	17.6	89.4
5000K	96	1495	17.4	85.9

Cone of Light

Distance (Ft.)	Footcandles (FC)	Beam Dia. (Ft.)
4	34.9	11.4
6	15.5	17.1
8	8.7	22.8
10	5.6	28.5
12	3.9	34.2
14	2.8	39.9

2. Lumens not going up with CCT, individual LEDs not single CCT

Beam Distribution: 109°
Spacing Criterion: 1.3
Photometric results above based on 3000K

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ORDERING INFORMATION

SURFACE MOUNT DOWNLIGHTS



CAT. NO.	Description	UPC Number	Std. Pack
SDR50-S1W	Surface Mount Downlight 5-Inch Round	07847702806 3	24
SDR70-S1W	Surface Mount Downlight 7-Inch Round	07847702807 0	24
SDR90-S1W	Surface Mount Downlight 9-Inch Round	07847702808 7	18

MATTE BLACK TRIM RINGS



CAT. NO.	Description	UPC Number	Std. Pack
SDR5X-T0E	Trim Ring, 5-In Round Surface MT, Black	07847702809 4	24
SDR7X-T0E	Trim Ring, 7-In Round Surface MT, Black	07847702810 0	24
SDR9X-T0E	Trim Ring, 9-In Round Surface MT, Black	07847702811 7	18

DIMMER COMPATIBILITY

The following list of Dimming Controls have gone through testing by Leviton to determine proper operation when paired with the Leviton Surface Mount Downlights

Supplier	Series	Model No.	Dimming Type	Dimming Range
Leviton	SureSlide	6672	Forward Phase	100-10%
Leviton	SureSlide	6674N	Forward Phase	100-10%
Leviton	SureSlide	6674	Forward Phase	100-10%
Leviton	IllumaTech	IPL06	Forward Phase	100-10%
Leviton	Decora Slide with Lever Edge	ESL01	Forward Phase	100-10%
Leviton	Decora Slide	DSL06	Forward Phase	100-10%
Leviton	Decora Slide	DSE06	Reverse Phase	100-10%
Leviton	Decora Digital	DDM06	Forward Phase	100-10%
Leviton	Decora Smart Wi-Fi	D2ELV	Phase Selectable (Reverse / Forward)	100-10%
Leviton	Toggle Slide	TSL06	Forward Phase	100-10%
Leviton	Trimatron Rotary	RDL06	Forward Phase	100-10%
Leviton	Trimatron Rotary	RNL06	Forward Phase	100-10%