

SDR Series Surface Mount Downlight

DATE	PROJECT
TYPE	CATALOG NO.

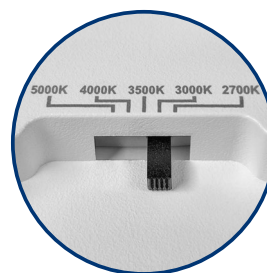


PRODUCT OVERVIEW

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
- 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 (CRI)**
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"), 110° (9")
- LED Life**
50,000 Hours @ 70% Lumen Maintenance

ELECTRICAL

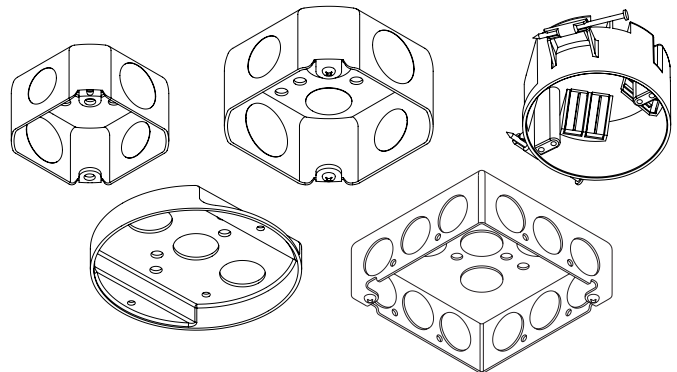
- Driver**
Non-isolated DOB driver
- Power Factor**
≥0.9
- Input Voltage**
120V
- Operating Frequency**
60Hz
- Operating Temperature**
-4°F to 104°F (-20°C to 40°C)
- Dimmable**
120V Forward or Reverse Phase Dimming down to 10%
(See dimmer compatibility list)

COMPLIANCE

- 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.

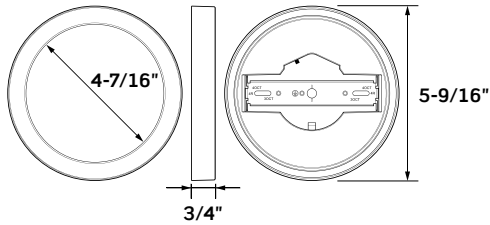
See the rest of our warranty [here](#).

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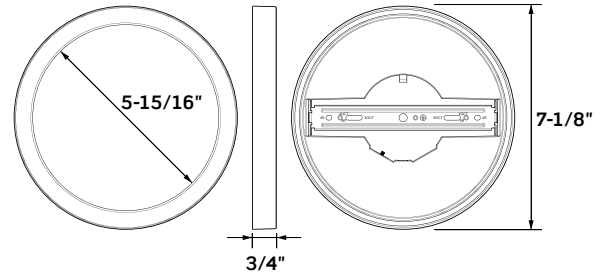
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DIMENSIONS

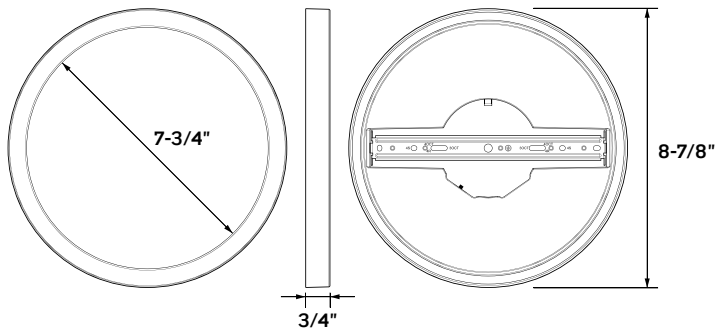
SDR50-S1W



SDR70-S1W



SDR90-S1W



ORDERING INFORMATION

SURFACE MOUNT DOWNLIGHTS



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

ACCESSORIES



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

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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%

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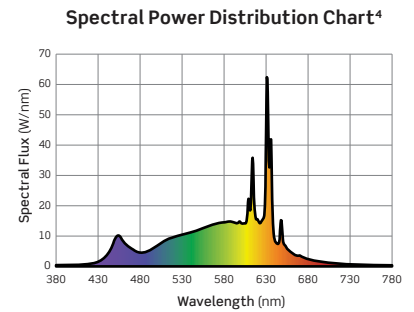
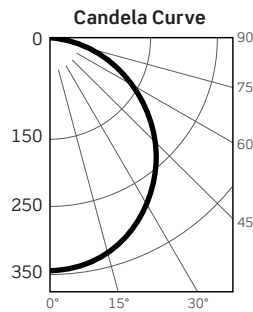
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PHOTOMETRICS

SDR50-001-S1W: 5-Inch Round Surface Mount Downlight

Fixture Delivered Lumens: 942
 Total Watts@120V: 11.9
 Lumens Per Watt: 79.2
 Center Beam Candle Power: 343
 Beam Distribution: 109°
 Spacing Criterion: 1.35
 Color Rendering Index (CRI)¹: 95.4
 Color Temperature (CCT)²: 2952K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G25081902
 LM-79 Test No. S25081902

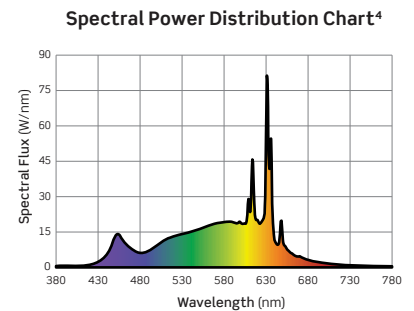
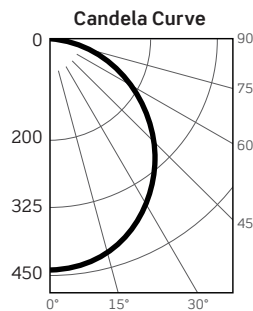
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	9.5	16.9
8 FT	5.4	22.6
10 FT	3.4	28.2
12 FT	2.4	33.9
14 FT	1.8	39.5
16 FT	1.3	45.2



SDR70-001-S1W: 7-Inch Round Surface Mount Downlight

Fixture Delivered Lumens: 1195
 Total Watts@120V: 14.5
 Lumens Per Watt: 82.4
 Center Beam Candle Power: 439
 Beam Distribution: 106°
 Spacing Criterion: 1.34
 Color Rendering Index (CRI)¹: 95.7
 Color Temperature (CCT)²: 3035K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G25081903
 LM-79 Test No. S25082002

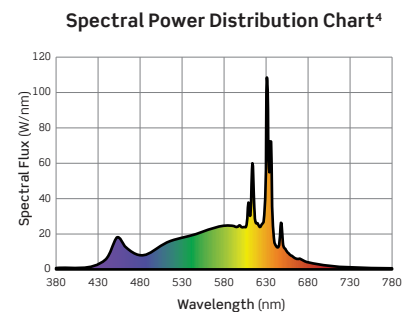
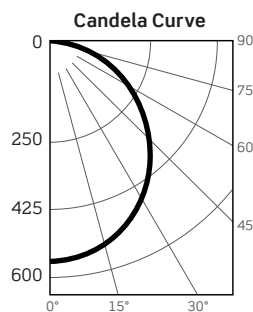
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	12.2	15.9
8 FT	6.9	21.2
10 FT	4.4	26.5
12 FT	3.1	31.9
14 FT	2.2	37.2
16 FT	1.7	42.5



SDR90-001-S1W: 9-Inch Round Surface Mount Downlight

Fixture Delivered Lumens: 1589
 Total Watts@120V: 17.5
 Lumens Per Watt: 87.4
 Center Beam Candle Power: 558
 Beam Distribution: 110°
 Spacing Criterion: 1.34
 Color Rendering Index (CRI)¹: 96.0
 Color Temperature (CCT)²: 2983K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G25082001
 LM-79 Test No. S25082102

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	15.5	17.1
8 FT	8.7	22.8
10 FT	5.6	28.5
12 FT	3.9	34.2
14 FT	2.8	39.9
16 FT	2.2	45.6



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI), Trim Finish, and Wattage.

To estimate lumen output of other combinations, multiply the published results by the following factors:

SDR50	
CCT	90+ CRI
2700K	0.96
3000K	1.00
3500K	1.04
4000K	1.02
5000K	0.96

SDR70	
CCT	90+ CRI
2700K	0.94
3000K	1.00
3500K	1.05
4000K	1.04
5000K	0.97

SDR90	
CCT	90+ CRI
2700K	0.96
3000K	1.00
3500K	1.04
4000K	1.03
5000K	0.97

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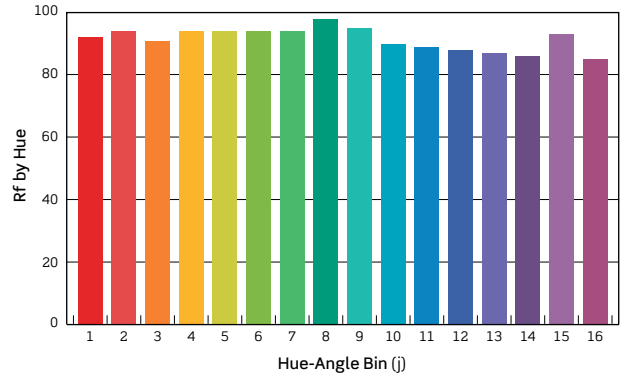
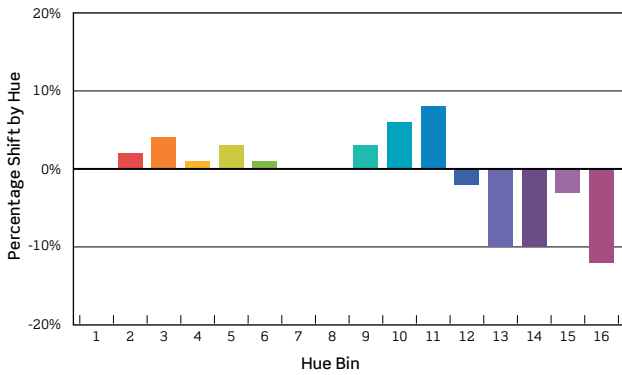
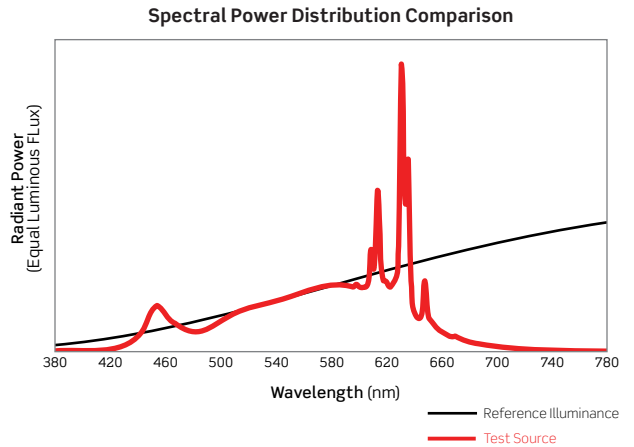
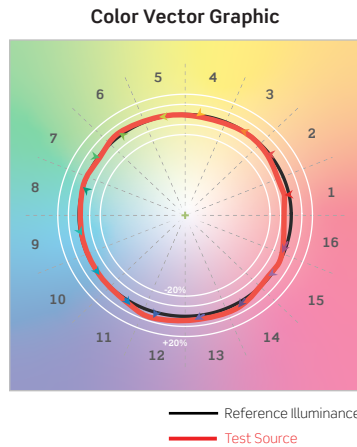
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PHOTOMETRICS

TM-30 DATA: SDR50-001-S1W 5-Inch Round Surface Mount Downlight

ANSI/IES TM-30-18 Color Rendition Report Test No. S25081902

R_f	92
R_g	100
CCT(K)	2952K
D_{uv}	-0.0016
u^l	0.2529
v^l	0.5201



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	2%	4%	1%	3%	1%	0%	0%	3%	6%	8%	-2%	-10%	-10%	-3%	-12%
R _f VALUE	92	94	91	94	94	94	94	98	95	90	89	88	87	86	93	85

Colors are for visual orientation purposes only

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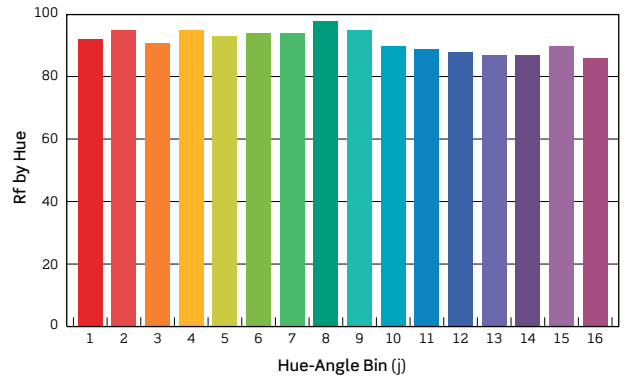
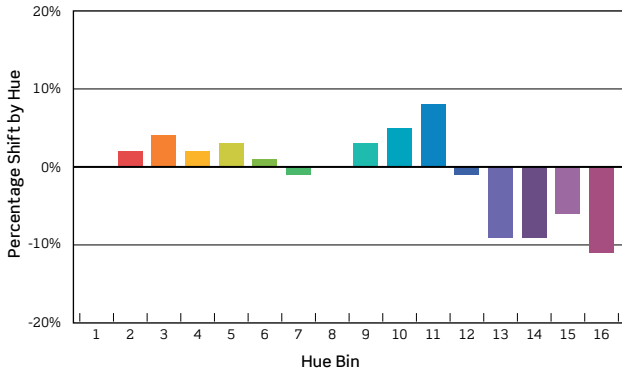
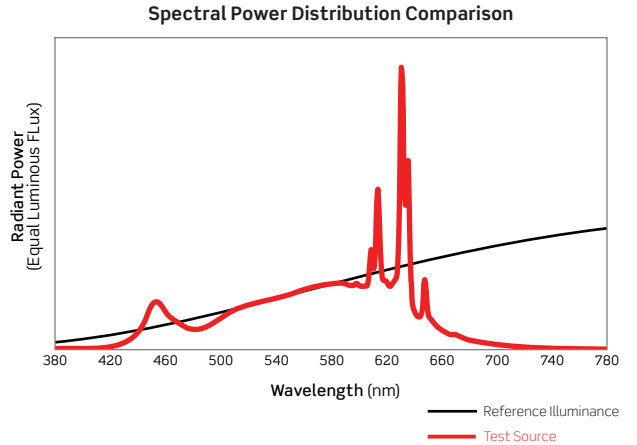
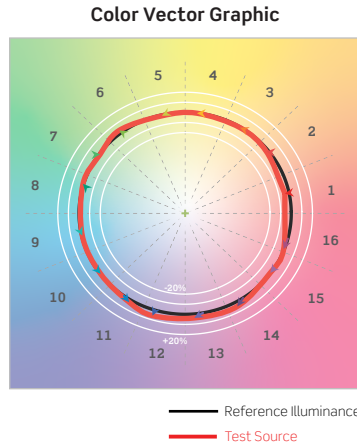
DATE	PROJECT
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PHOTOMETRICS

TM-30 DATA: SDR70-001-S1W 7-Inch Round Surface Mount Downlight

ANSI/IES TM-30-18 Color Rendition Report Test No. S25082002

R_f	92
R_g	101
CCT(K)	3035K
D_{uv}	-0.0017
u^l	0.2500
v^l	0.5182



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	2%	4%	2%	3%	1%	-1%	0%	3%	5%	8%	-1%	-9%	-9%	-6%	-11%
R _f VALUE	92	95	91	95	93	94	94	98	95	90	89	88	87	87	90	86

Colors are for visual orientation purposes only

SDR Series Surface Mount Downlight

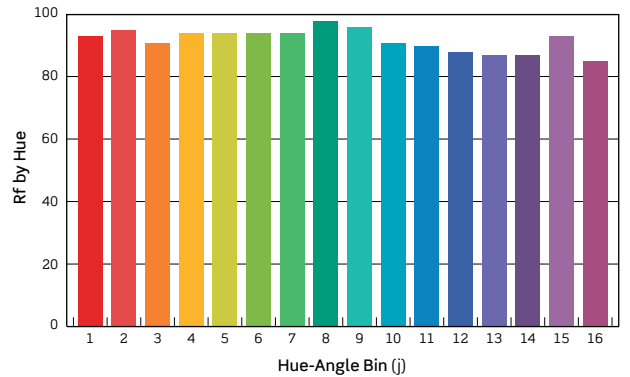
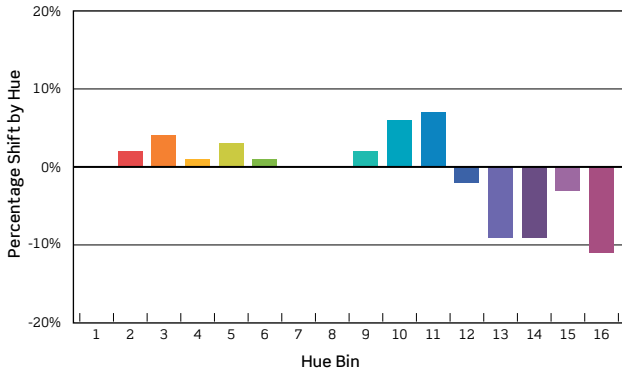
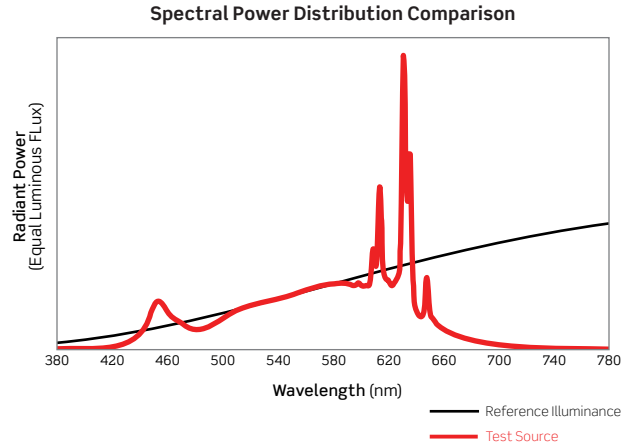
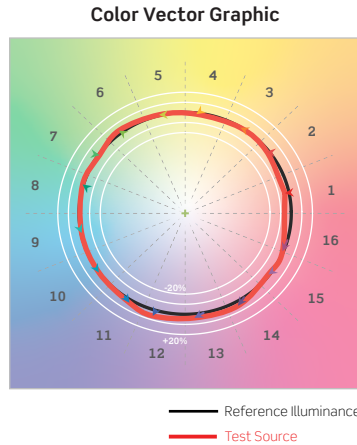
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PHOTOMETRICS

TM-30 DATA: SDR90-001-S1W 9-Inch Round Surface Mount Downlight

ANSI/IES TM-30-18 Color Rendition Report Test No. S25082102

R_f	92
R_g	101
CCT(K)	2983K
D_{uv}	-0.0022
u^l	0.2520
v^l	0.5186



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	2%	4%	1%	3%	1%	0%	0%	2%	6%	7%	-2%	-9%	-9%	-3%	-11%
R _f VALUE	93	95	91	94	94	94	94	98	96	91	90	88	87	87	93	85

Colors are for visual orientation purposes only