



**Lightolier LED Surface Mount Downlight** is a perfect problem solver fixture. When you are faced with a challenging ceiling, but want a nice LED downlight, this is the perfect product for you. The CCT and Lumen selection features make it easy to adjust at the time of installation.



Lumen Select Switch



CCT with Select Switch

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Fixture

example: SD25R7ESCT1W

Family	Size	Lumens <sup>1</sup>	Dimming	CCT/CRI*	Voltage	Finish
<b>SD2</b>						<b>W</b>
SD2 Surface Mount	5R 5in Round	7 700lm	E TRIAC to 5%	SCT <sup>1</sup> 90CRI; Field Selectable 5CCT (2700K, 3000K, 3500K, 4000K & 5000K)	1 120V	W White (matte)
		SLM Field Selectable (500lm/700lm)	Z10 0-10V		U UNV	
	7R 7in Round	9 900lm	E TRIAC to 5%		1 120V	
		SLM Field Selectable (700lm/900lm)	Z10 0-10V		U UNV	
	9R 9in Round	11 1100lm	E TRIAC to 5%		1 120V	
		SLM Field Selectable (900lm/1100lm)	Z10 0-10V		U UNV	
	11R 11in Round	16 1600lm	E TRIAC to 5%		1 120V	
		SLM Field Selectable (1300lm/1600lm)	Z10 0-10V		U UNV	
	14R 14in Round	18 1800lm	E TRIAC to 5%		1 120V	
		SLM Field Selectable (1500lm/1800lm)	Z10 0-10V		U UNV	

1. Default settings for selectable features: highest available lumens and 4000K CCT.

### Features

- Flange:** One piece plastic flange. White painted.
- Lens:** Diffused lens for smooth, comfortable light pattern.
- Connectors:** quick connectors supplied with the fixture for ease of installation.
- Ceiling cutout:** installation template is provided
- Mounting:** Steel mounting plate to secure to junction box provided.

### Electrical

**Electronic power supply:** RoHS compliant. Isolated driver, Class 2 Power Unit. Remote power supply can only accommodate one LED module and cannot be shared with other LED module.

**Dimming:** 120V versions are compatible with ELV/TRIAC (120V) dimmers. UNV versions are compatible with 0-10V (UNV) dimmers. (review dimmer compatibility list for further information)

### Labels

ETL listed (UL 1598) for damp locations . IC rated for direct contact with thermal insulation.

AirSeal for minimal air leakage.

ENERGY STAR® certified.

Title 24 compliant (JA8).

	Lumen Output	Input voltage	Input Freq	Max. Input current	Max. Input power	Max. THD	Power factor	CRI
5" Round 120V	700lm	120V	60Hz	0.20A	8.5W	20%	0.9	90
5" Round UNV	500lm / 700lm	120V - 277V	50/60Hz	0.20A	6W / 8.5W	20%	0.9	90
7" Round 120V	900lm	120V	60Hz	0.26A	10.9W	20%	0.9	90
7" Round UNV	700lm / 900lm	120V - 277V	50/60Hz	0.26A	8.5W / 10.9W	20%	0.9	90
9" Round 120V	1100lm	120V	60Hz	0.30A	13.4W	20%	0.9	90
9" Round UNV	900lm / 1100lm	120V - 277V	50/60Hz	0.30A	10.9W / 13.4W	20%	0.9	90
11" Round 120V	1600lm	120V	60Hz	0.34A	19W	20%	0.9	90
11" Round UNV	1300lm / 1600lm	120V - 277V	50/60Hz	0.34A	15W / 19W	20%	0.9	90
14" Round 120V	1800lm	120V	60Hz	0.37A	21W	20%	0.9	90
14" Round UNV	1500lm / 1800lm	120V - 277V	50/60Hz	0.37A	18W / 21W	20%	0.9	90





\* Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.



# SD Surface Mount Downlight

5", 7", 9", 11" and 14" Round

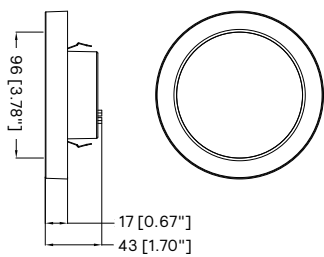
## Compatibility

5" Round	7", 9", 11" & 14" Round		
			
4" Octagonal (metal)	4" Octagonal (metal)	4" Square (metal)	4" Square (plastic)

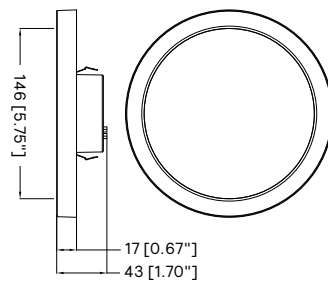
\* J-box must be at least 1.9" deep for all sizes

## Dimensions

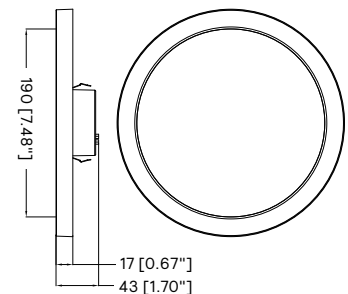
Surface Mount Downlight 5"



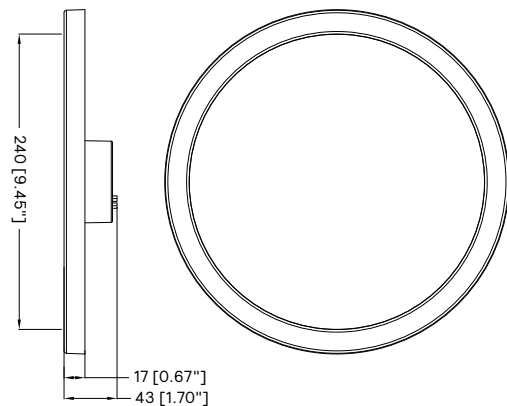
Surface Mount Downlight 7"



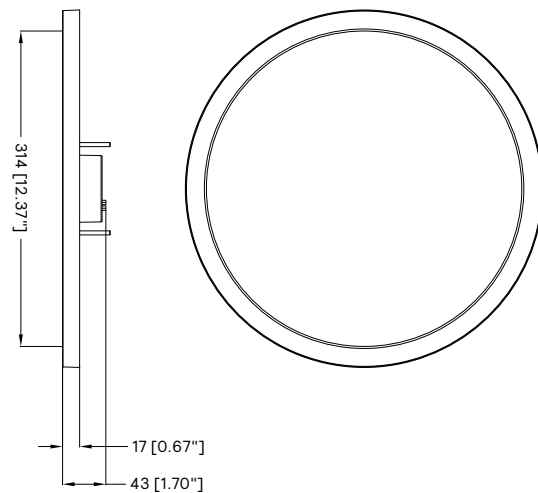
Surface Mount Downlight 9"



Surface Mount Downlight 11"



Surface Mount Downlight 14"



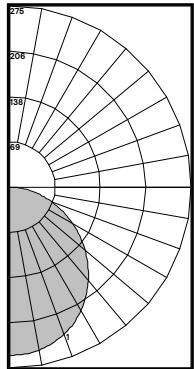
1. Note: All dimensions shown are in millimeters and inches

# SD Surface Mount Downlight

5", 7", 9", 11" and 14" Round

## SD25R7ESCT1W

### Candlepower Distribution



Fixture: **SD25R7ESCT1W**

Output lumens: 716 lm  
 Correlated Color  
 Temp:  
 Input watts: 8.0 W  
 Efficacy: 89.5 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.26  
 Beam Angle: 109°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	199	27.8%
0-40	324	45.3%
0-60	566	79.1%
0-90	716	100.0%

Angle	Mean CP	Lumens
0	256	
5	255	
10	252	25
15	247	
20	239	69
25	229	
30	216	105
35	202	
40	185	125
45	168	
50	149	128
55	129	
60	110	114
65	90	
70	70	86
75	51	
80	32	51
85	15	
90	0	13

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	10	6.3'
6'	7	7.6'
7'	5	8.8'
8'	4	10.1'
9'	3	11.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	29.0	0.35
6'	19.0	0.23
7'	14.0	0.17
8'	11.0	0.14
9'	9.0	0.11

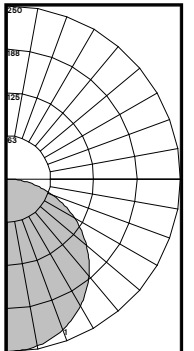
38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	95	98	92	94	89	84
	2	99	91	84	79	89	78	86	76	82	74	70
	3	90	80	72	65	78	65	75	64	73	63	59
	4	83	71	62	56	70	55	67	54	65	54	51
	5	76	63	54	48	62	48	60	47	58	47	44
	6	70	57	48	42	56	42	54	41	53	41	38
	7	65	52	43	37	51	37	49	37	48	36	34
	8	61	47	39	33	47	33	45	33	44	33	30
	9	57	43	35	30	43	30	42	29	41	29	27
	10	53	40	32	27	40	27	39	27	38	27	25

## SD25RSLM10SCTUW

### Candlepower Distribution



Fixture: **SD25RSLM10SCTUW**

Output lumens: 701 lm  
 Correlated Color  
 Temp:  
 Input watts: 8.0 W  
 Efficacy: 87.6 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.24  
 Beam Angle: 110°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	193	27.5%
0-40	315	44.9%
0-60	554	79.0%
0-90	701	100.0%

Angle	Mean CP	Lumens
0	249	
5	249	
10	246	24
15	241	
20	233	67
25	223	
30	212	102
35	198	
40	183	122
45	167	
50	149	126
55	131	
60	111	113
65	91	
70	71	86
75	51	
80	32	50
85	15	
90	1	13

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	10	6.2'
6'	7	7.4'
7'	5	8.7'
8'	4	9.9'
9'	3	11.2'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	29.0	0.35
6'	19.0	0.23
7'	14.0	0.17
8'	11.0	0.14
9'	9.0	0.11

38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	95	98	92	94	89	84
	2	99	91	84	78	89	78	85	76	82	74	70
	3	90	80	72	65	78	65	75	64	73	63	59
	4	83	71	62	56	70	55	67	54	65	54	51
	5	76	63	55	48	62	48	60	47	58	47	44
	6	70	57	48	42	56	42	54	41	53	41	39
	7	65	52	43	37	51	37	50	37	48	36	34
	8	61	47	39	33	47	33	45	33	44	33	31
	9	57	44	35	30	43	30	42	30	41	29	27
	10	53	40	32	27	40	27	39	27	38	27	25

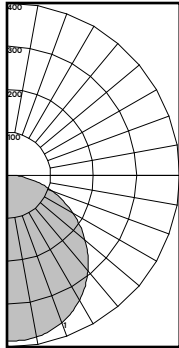
1. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# SD Surface Mount Downlight

5", 7", 9", 11" and 14" Round

## SD27R9ESCT1W

### Candlepower Distribution



Fixture: **SD27R9ESCT1W**

Output lumens: 1090 lm  
 Correlated Color Temp: 90 min  
 Input watts: 11.0 W  
 Efficacy: 99.1 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.26  
 Beam Angle: 109°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	301	27.6%
0-40	491	45.0%
0-60	858	78.7%
0-90	1090	100.0%

Angle	Mean CP	Lumens
0	386	
5	386	
10	383	37
15	377	
20	366	105
25	353	
30	336	159
35	315	
40	291	190
45	265	
50	235	194
55	206	
60	175	173
65	143	
70	113	131
75	82	
80	54	78
85	27	
90	2	22

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	15	6.3'
6'	11	7.6'
7'	8	8.8'
8'	6	10.1'
9'	5	11.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	39.0	0.49
6'	25.0	0.32
7'	18.0	0.23
8'	15.0	0.19
9'	12.0	0.15

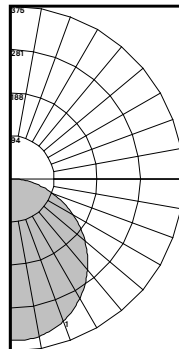
38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	64	73	62	59
	4	83	71	62	55	70	55	67	54	65	54	51
	5	76	63	54	48	62	48	60	47	58	47	44
	6	70	57	48	42	56	42	54	41	53	41	39
	7	65	52	43	37	51	37	50	37	48	36	34
	8	61	47	39	33	47	33	45	33	44	33	30
	9	57	44	35	30	43	30	42	30	41	29	27
	10	53	40	32	27	40	27	39	27	38	27	25

## SD27RSLMZ10SCTUW

### Candlepower Distribution



Fixture: **SD27RSLMZ10SCTUW**

Output lumens: 967 lm  
 Correlated Color Temp: 99 min  
 Input watts: 10.0 W  
 Efficacy: 96.7 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.26  
 Beam Angle: 108°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	270	27.9%
0-40	439	45.4%
0-60	766	79.2%
0-90	967	100.0%

Angle	Mean CP	Lumens
0	352	
5	352	
10	349	33
15	341	
20	331	95
25	317	
30	300	142
35	281	
40	259	169
45	235	
50	210	173
55	183	
60	155	154
65	128	
70	99	116
75	72	
80	46	67
85	22	
90	2	18

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	14	6.3'
6'	10	7.6'
7'	7	8.8'
8'	6	10.1'
9'	4	11.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	39.0	0.44
6'	25.0	0.29
7'	18.0	0.21
8'	15.0	0.17
9'	12.0	0.14

38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	64	73	62	59
	4	83	71	62	55	70	55	67	54	65	54	51
	5	76	63	54	48	62	48	60	47	58	47	44
	6	70	57	48	42	56	42	54	41	53	41	38
	7	65	52	43	37	51	37	49	37	48	36	34
	8	61	47	39	33	47	33	45	33	44	33	30
	9	57	44	35	30	43	30	42	30	41	29	27
	10	53	40	32	27	40	27	39	27	38	27	25

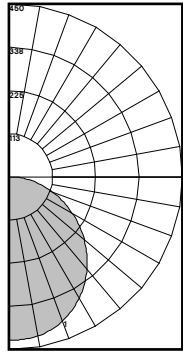
1. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# SD Surface Mount Downlight

5", 7", 9", 11" and 14" Round

## SD29R11ESCT1W

### Candlepower Distribution



Fixture: **SD29R11ESCT1W**

Output lumens: 1165 lm  
 Correlated Color Temp:  
 Input watts: 13.0 W  
 Efficacy: 89.6 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.24  
 Beam Angle: 108°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	325	27.9%
0-40	528	45.3%
0-60	919	78.9%
0-90	1165	100.0%

Angle	Mean CP	Lumens
0	425	
5	426	
10	422	40
15	414	
20	401	114
25	385	
30	365	171
35	341	
40	315	203
45	286	
50	255	207
55	223	
60	189	184
65	156	
70	122	139
75	90	
80	59	82
85	30	
90	4	24

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	17	6.2'
6'	12	7.4'
7'	9	8.7'
8'	7	9.9'
9'	5	11.2'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
6'	48.0	0.58
7'	32.0	0.38
8'	22.0	0.27
9'	19.0	0.23
10'	15.0	0.18

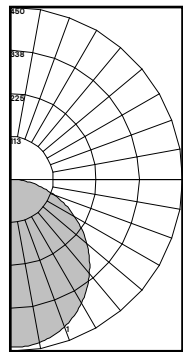
38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	63	72	62	59
	4	83	71	62	55	69	55	67	54	65	53	50
	5	76	63	54	48	62	47	60	47	58	46	44
	6	70	57	48	42	56	41	54	41	52	41	38
	7	65	52	43	37	51	37	49	36	48	36	34
	8	61	47	39	33	46	33	45	33	44	32	30
	9	57	43	35	30	43	29	42	29	40	29	27
	10	53	40	32	27	39	27	38	27	38	27	25

## SD29RSLMZ10SCTUW

### Candlepower Distribution



Fixture: **SD29RSLMZ10SCTUW**

Output lumens: 1212 lm  
 Correlated Color Temp:  
 Input watts: 13.0 W  
 Efficacy: 93.2 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.24  
 Beam Angle: 109°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	338	27.9%
0-40	550	45.4%
0-60	959	79.1%
0-90	1212	100.0%

Angle	Mean CP	Lumens
0	440	
5	439	
10	434	42
15	425	
20	412	118
25	395	
30	374	178
35	350	
40	322	212
45	293	
50	262	216
55	228	
60	194	193
65	160	
70	124	145
75	90	
80	58	84
85	29	
90	4	24

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	18	6.2'
6'	12	7.4'
7'	9	8.7'
8'	7	9.9'
9'	5	11.2'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
6'	48.0	0.58
7'	32.0	0.38
8'	22.0	0.27
9'	19.0	0.23
10'	15.0	0.18

38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	63	72	62	59
	4	83	71	62	55	69	55	67	54	65	53	50
	5	76	63	54	48	62	47	60	47	58	46	44
	6	70	57	48	42	56	41	54	41	52	41	38
	7	65	52	43	37	51	37	49	36	48	36	34
	8	61	47	39	33	46	33	45	33	44	32	30
	9	57	43	35	30	43	29	42	29	40	29	27
	10	53	40	32	27	39	27	38	27	38	27	25

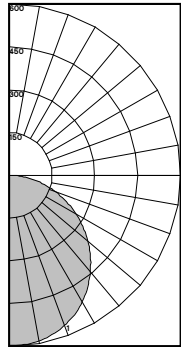
1. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# SD Surface Mount Downlight

5", 7", 9", 11" and 14" Round

## SD211R16ESCT1W

### Candlepower Distribution



Fixture: **SD211R16ESCT1W**

Output lumens: 1642 lm  
 Correlated Color Temp: 70  
 Input watts: 17.0 W  
 Efficacy: 96.6 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.24  
 Beam Angle: 108°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	457	27.8%
0-40	743	45.2%
0-60	1295	78.9%
0-90	1642	100.0%

Angle	Mean CP	Lumens
0	596	
5	597	
10	591	56
15	580	
20	562	160
25	539	
30	512	241
35	478	
40	442	286
45	401	
50	359	292
55	314	
60	268	260
65	220	
70	174	197
75	127	
80	83	116
85	42	
90	7	34

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	24	6.2'
6'	17	7.4'
7'	12	8.7'
8'	9	9.9'
9'	7	11.2'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
6'	66.0	0.75
7'	43.0	0.49
8'	31.0	0.35
9'	26.0	0.29
10'	20.0	0.24

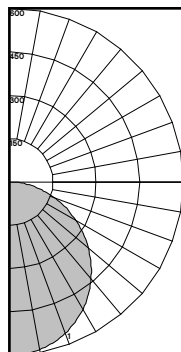
38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall												
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	63	72	62	59
	4	83	71	62	55	69	55	67	54	65	53	50
	5	76	63	54	48	62	47	60	47	58	46	44
	6	70	57	48	42	56	41	54	41	52	41	38
	7	65	52	43	37	51	37	49	36	48	36	34
	8	61	47	39	33	46	33	45	33	44	32	30
	9	57	43	35	30	43	29	42	29	40	29	27
	10	53	40	32	27	39	27	38	27	38	27	25

## SD211RSLMZ10SCTUW

### Candlepower Distribution



Fixture: **SD211RSLMZ10SCTUW**

Output lumens: 1654 lm  
 Correlated Color Temp: 70  
 Input watts: 17.0 W  
 Efficacy: 97.3 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.24  
 Beam Angle: 109°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	460	27.8%
0-40	749	45.3%
0-60	1307	79.0%
0-90	1654	100.0%

Angle	Mean CP	Lumens
0	599	
5	598	
10	591	57
15	578	
20	560	161
25	537	
30	508	242
35	475	
40	438	289
45	398	
50	356	295
55	311	
60	264	263
65	217	
70	169	199
75	123	
80	79	115
85	39	
90	5	32

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	24	6.2'
6'	17	7.4'
7'	12	8.7'
8'	9	9.9'
9'	7	11.2'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
6'	66.0	0.75
7'	43.0	0.49
8'	31.0	0.35
9'	26.0	0.29
10'	20.0	0.24

38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall												
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	63	72	62	59
	4	83	71	62	55	69	55	67	54	65	53	50
	5	76	63	54	48	62	47	60	47	58	46	44
	6	70	57	48	42	56	41	54	41	52	41	38
	7	65	52	43	37	51	37	49	36	48	36	34
	8	61	47	39	33	46	33	45	33	44	32	30
	9	57	43	35	30	43	29	42	29	40	29	27
	10	53	40	32	27	39	27	38	27	38	27	25

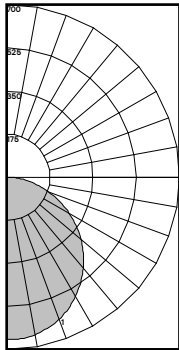
1. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# SD Surface Mount Downlight

5", 7", 9", 11" and 14" Round

## SD214R18ESCT1W

### Candlepower Distribution



Fixture: **SD214R18ESCT1W**

Output lumens: 967 lm  
 Correlated Color  
 Temp:  
 Input watts: 10.0 W  
 Efficacy: 96.7 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.26  
 Beam Angle: 108°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	510	27.5%
0-40	831	44.8%
0-60	1457	78.6%
0-90	1853	100.0%

Angle	Mean CP	Lumens
0	661	
5	660	
10	652	63
15	636	
20	617	178
25	590	
30	559	269
35	523	
40	483	321
45	439	
50	392	330
55	343	
60	291	296
65	240	
70	186	226
75	133	
80	84	132
85	40	
90	2	37

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	26	6.3'
6'	18	7.5'
7'	13	8.8'
8'	10	10.0'
9'	8	11.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
6'	73.0	0.84
7'	48.0	0.55
8'	34.0	0.39
9'	28.0	0.33
10'	22.0	0.26

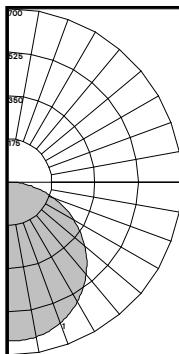
38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	63	72	62	59
	4	83	71	62	55	69	55	67	54	65	53	50
	5	76	63	54	48	62	47	60	47	58	46	44
	6	70	57	48	42	56	41	54	41	52	41	38
	7	65	52	43	37	51	37	49	36	48	36	34
	8	61	47	39	33	46	33	45	33	44	32	30
	9	57	43	35	30	43	29	42	29	40	29	27
	10	53	40	32	27	39	27	38	27	38	27	25

## SD214RSLMZ10SCTUW

### Candlepower Distribution



Fixture: **SD214RSLMZ10SCTUW**

Output lumens: 1822 lm  
 Correlated Color  
 Temp:  
 Input watts: 19.0 W  
 Efficacy: 95.9 lm/W  
 CRI: 90 min  
 Spacing Criterion: 1.28  
 Beam Angle: 111°

### Zonal summary

Zone	Lumens	%Luminaire
0-30	498	27.3%
0-40	813	44.6%
0-60	1433	78.6%
0-90	1822	100.0%

Angle	Mean CP	Lumens
0	643	
5	643	
10	638	61
15	626	
20	610	174
25	586	
30	558	263
35	525	
40	488	315
45	447	
50	402	326
55	355	
60	304	294
65	252	
70	198	224
75	144	
80	93	130
85	46	
90	5	35

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	26	6.4'
6'	18	7.7'
7'	13	9.0'
8'	10	10.2'
9'	8	11.5'

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
6'	73.0	0.84
7'	48.0	0.55
8'	34.0	0.39
9'	28.0	0.33
10'	22.0	0.26

38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	109	104	100	96	102	94	98	91	94	89	84
	2	99	91	84	78	89	77	85	76	82	74	70
	3	90	80	72	65	78	65	75	63	72	62	59
	4	83	71	62	55	69	55	67	54	65	53	50
	5	76	63	54	48	62	47	60	47	58	46	44
	6	70	57	48	42	56	41	54	41	52	41	38
	7	65	52	43	37	51	37	49	36	48	36	34
	8	61	47	39	33	46	33	45	33	44	32	30
	9	57	43	35	30	43	29	42	29	40	29	27
	10	53	40	32	27	39	27	38	27	38	27	25

1. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.