

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1326294

Luminaire Tested: LDSQA3D09R30W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R30W2N902750DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

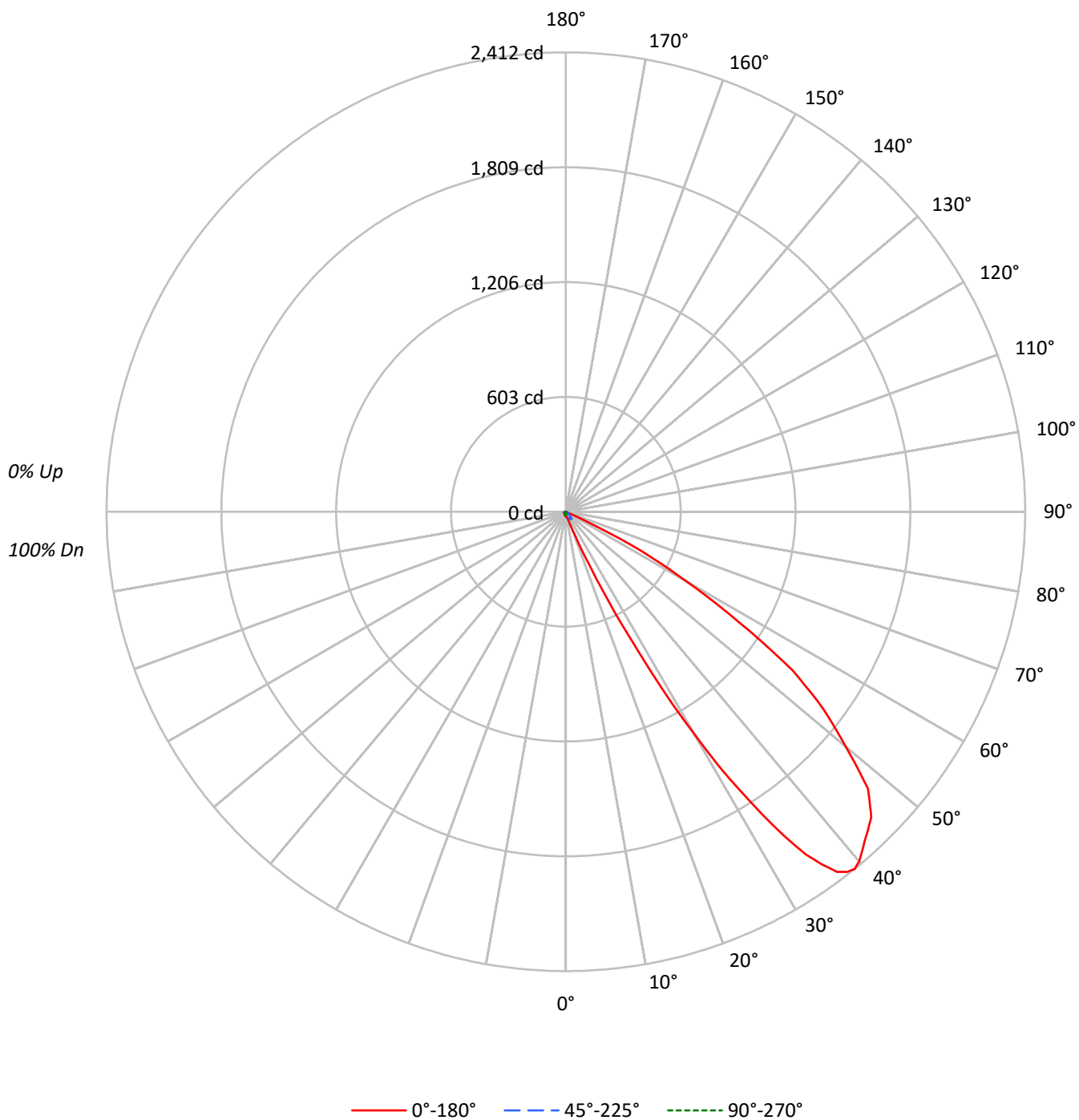
Lumens per Lamp: N/A
Luminaire Lumens: 627.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4185	4185	4185	4185	4185
5°	4478	4391	4115	3752	3648
10°	4897	4337	3603	3235	3148
15°	7150	4333	3013	2728	2817
20°	17998	4747	2328	2328	2621
25°	83612	5929	1805	2109	2413
30°	266162	8193	1372	1989	2406
35°	461824	9987	1114	1892	2439
40°	538603	9982	832	1911	2496
45°	552369	7063	901	2070	2704
50°	513677	3965	697	2117	3108
55°	436580	2072	781	2372	3483
60°	252134	551	896	2549	3823
65°	51428	0	1060	3016	4320
70°	806	252	1309	3474	5035
75°	732	333	1397	3527	5989
80°	496	496	2083	4166	6843
85°	0	988	4150	4150	8299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 552369 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	6.3	1.0
20°-30°	36.2	5.8
30°-40°	168.9	26.9
40°-50°	238.8	38.1
50°-60°	146.9	23.4
60°-70°	22.4	3.6
70°-80°	3.5	0.6
80°-90°	1.8	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	44.7	7.1
0°-40°	213.6	34.1
0°-60°	599.3	95.6
0°-90°	627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	26	25	24	22	21	3
15°	40	24	17	15	16	14
25°	440	31	10	11	13	271
35°	2197	48	5	9	12	1318
45°	2268	29	4	8	11	1719
55°	1454	7	3	8	12	1237
65°	126	0	3	7	11	228
75°	1	0	2	5	9	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	24.8	24.8	25.4	25.4	24.8	25.4	25.4	25.4	24.3	23.8	22.7
5°	25.9	25.9	25.9	26.4	25.9	25.9	25.4	24.8	23.8	22.2	21.7
7.5°	26.9	26.9	26.4	26.9	26.4	26.4	25.4	24.3	22.7	21.1	20.1
10°	28.0	28.0	27.5	27.5	26.9	26.9	24.8	23.2	20.6	19.0	18.5
12.5°	31.2	31.2	30.6	30.1	29.0	28.5	24.3	21.7	18.5	16.9	16.4
15°	40.1	39.6	38.6	37.0	34.3	33.8	24.3	20.1	16.9	15.3	15.3
17.5°	54.9	54.4	52.8	48.6	43.8	42.3	24.3	18.0	14.8	13.7	13.7
20°	98.2	94.0	86.1	75.5	64.4	58.6	25.9	15.8	12.7	12.1	12.7
21°	128.3	124.1	114.1	96.7	77.1	70.8	26.9	15.3	12.1	11.6	12.7
22°	174.8	170.1	149.5	125.7	97.7	86.6	27.5	14.3	11.1	11.1	12.1
23°	244.0	236.1	201.2	163.2	122.0	106.2	28.5	13.7	10.6	11.1	11.6
24°	319.5	312.7	273.1	216.0	155.8	133.1	29.6	13.2	10.0	10.0	11.1
25°	440.0	432.0	361.8	272.5	197.5	160.0	31.2	12.1	9.5	9.5	11.1
26°	595.8	559.3	465.8	351.2	243.5	200.7	32.7	11.6	9.0	9.5	10.6
27°	743.6	713.5	608.4	450.5	301.1	246.6	34.9	11.1	8.5	9.0	10.6
28°	938.0	895.8	763.2	569.9	379.2	298.4	37.0	10.6	7.9	9.0	10.0
29°	1155.6	1096.5	936.4	704.0	467.4	356.5	39.1	10.0	7.4	8.5	10.0
30°	1338.4	1282.9	1122.9	863.0	568.8	433.1	41.2	9.5	6.9	8.5	10.0
31°	1552.8	1468.8	1275.0	997.7	656.0	509.7	43.3	8.5	6.3	7.9	9.5
32°	1726.5	1667.9	1461.9	1149.8	770.6	594.2	44.9	7.9	6.3	7.9	9.5
33°	1894.5	1815.8	1616.7	1295.6	874.1	680.8	46.5	7.4	5.8	7.4	9.5
34°	2055.1	1982.7	1763.0	1413.4	971.8	763.2	47.5	6.3	5.8	7.4	9.0
35°	2196.6	2112.6	1891.9	1528.5	1072.2	838.2	47.5	5.8	5.3	6.9	9.0
36°	2288.5	2228.3	2003.8	1642.0	1163.0	909.5	47.5	5.3	4.8	6.9	8.5
37°	2367.2	2297.0	2093.6	1729.2	1230.1	966.5	47.5	4.8	4.8	6.9	8.5
38°	2399.4	2339.2	2155.4	1806.3	1292.9	1024.6	47.0	4.2	4.2	6.3	8.5
39°	2412.1	2358.2	2201.9	1861.8	1339.4	1063.7	45.9	3.7	4.2	6.3	8.5
40°	2395.7	2355.1	2225.7	1897.7	1376.4	1092.2	44.4	3.2	3.7	6.3	8.5
42.5°	2328.1	2301.2	2220.4	1933.6	1408.1	1113.4	38.6	2.1	3.7	5.8	8.5
45°	2267.9	2238.3	2167.0	1896.1	1366.9	1071.6	29.0	1.1	3.7	5.8	8.5
47.5°	2151.2	2132.7	2076.7	1800.5	1276.6	977.6	20.6	0.5	3.2	5.3	7.9
50°	1917.2	1899.8	1825.8	1563.3	1098.0	826.6	14.8	0.5	2.6	5.3	7.9
52.5°	1707.5	1689.1	1582.9	1299.8	843.5	605.8	9.5	0.5	2.6	5.3	7.9
55°	1454.0	1421.8	1282.4	986.6	597.9	406.2	6.9	0.5	2.6	4.8	7.9
57.5°	1076.4	1029.4	904.7	672.9	344.4	220.2	3.7	0.5	2.6	4.8	7.9
60°	732.0	704.0	566.2	354.9	146.8	93.0	1.6	0.5	2.6	4.8	7.4
62.5°	443.7	408.3	284.7	151.1	63.4	42.3	0.0	1.1	2.6	4.8	7.4
65°	126.2	112.0	74.5	34.3	18.0	13.7	0.0	1.1	2.6	4.8	7.4
67.5°	4.2	4.2	4.2	3.7	2.6	2.6	0.5	1.1	2.6	4.8	6.9
70°	1.6	1.6	1.6	1.1	1.1	0.5	0.5	1.1	2.6	4.2	6.9
72.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	1.1	2.1	3.7	6.3
75°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.1	3.7	5.3
77.5°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.1	3.2	5.3
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.1	3.2	4.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.5	1.6	2.1	2.1	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.1	1.6	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.6	1.6	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	24.3	24.3
2.5°	22.7	22.7
5°	21.1	21.1
7.5°	19.5	19.5
10°	18.0	18.0
12.5°	16.9	16.9
15°	15.3	15.8
17.5°	14.3	14.8
20°	13.7	14.3
21°	13.7	14.3
22°	13.2	13.7
23°	13.2	13.7
24°	12.7	13.2
25°	12.1	12.7
26°	12.1	12.7
27°	12.1	12.7
28°	11.6	12.7
29°	11.6	12.1
30°	11.6	12.1
31°	11.1	12.1
32°	11.1	12.1
33°	11.1	11.6
34°	10.6	11.6
35°	10.6	11.6
36°	10.6	11.6
37°	10.6	11.1
38°	10.6	11.6
39°	10.6	11.1
40°	10.6	11.1
42.5°	10.6	11.1
45°	10.6	11.1
47.5°	10.6	11.6
50°	10.6	11.6
52.5°	10.6	11.6
55°	10.6	11.6
57.5°	10.6	11.1
60°	10.6	11.1
62.5°	10.0	11.1
65°	10.0	10.6
67.5°	10.0	10.6
70°	9.5	10.0
72.5°	9.0	9.5
75°	7.9	9.0
77.5°	7.4	7.9
80°	6.3	6.9



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	5.3	5.3
85°	3.7	4.2
87.5°	2.1	2.1
90°	0.0	0.0

(END OF REPORT)