

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: P1326484

Luminaire Tested: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MMS\_4000K

Issue Date: 1/29/2026

**Test Information**

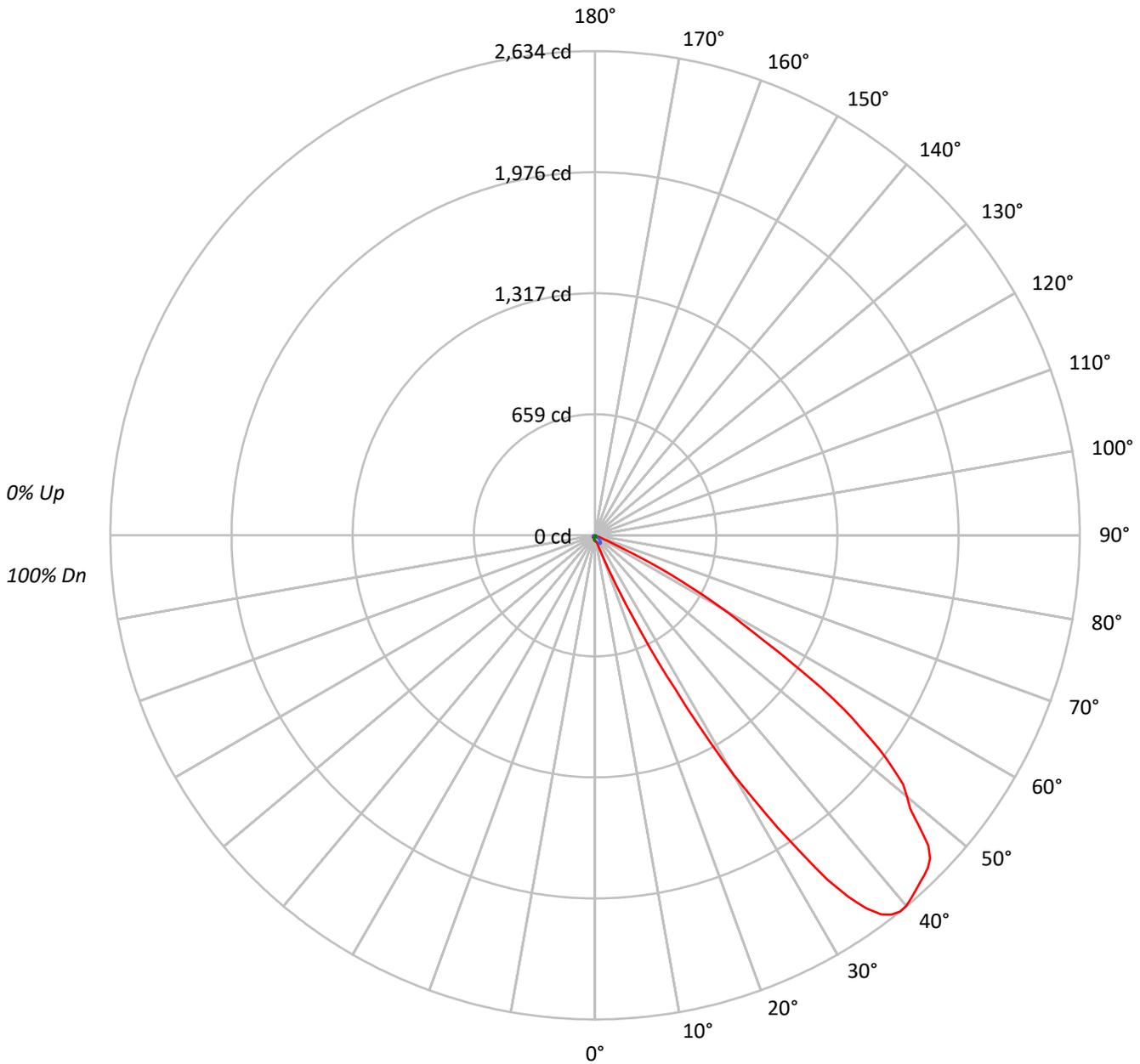
Test Method: LM-79-2019  
Report Number: P1326484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 656.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87	
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	63	61	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50	
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	44	42	
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	37	35	
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29	
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	26	26	24	
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	22	20	
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	19	19	17	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	5201	5201	5201	5201	5201
5°	5636	5532	5117	4599	4512
10°	5911	5386	4564	3935	3935
15°	8451	5278	3691	3370	3477
20°	21168	5645	2932	2932	3262
25°	98244	7202	2242	2698	3040
30°	298656	9784	1770	2466	3063
35°	504735	11332	1493	2376	2985
40°	591638	11174	1192	2406	3192
45°	623074	7940	999	2606	3459
50°	593092	4769	965	2706	3805
55°	496962	1952	1081	3033	4444
60°	278208	413	1240	3479	4891
65°	48005	245	1223	3871	5542
70°	906	302	1511	4179	6244
75°	799	399	1996	4724	7120
80°	595	595	2380	5256	8232
85°	0	1186	4742	5928	9287

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 627496 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.7	0.4
10°-20°	7.7	1.2
20°-30°	40.3	6.1
30°-40°	173.8	26.5
40°-50°	248.0	37.8
50°-60°	153.6	23.4
60°-70°	23.4	3.6
70°-80°	4.4	0.7
80°-90°	2.2	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°	50.7	7.7
0°-40°	224.5	34.2
0°-60°	626.1	95.4
0°-90°	656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	33	32	30	27	26	3
15°	47	30	21	19	20	17
25°	517	38	12	14	16	309
35°	2401	54	7	11	14	1441
45°	2558	33	4	11	14	1933
55°	1655	6	4	10	15	1410
65°	118	1	3	10	14	241
75°	1	1	3	7	11	1
85°	0	1	2	3	5	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
2.5°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	30.2	29.6
5°	32.6	32.6	32.0	32.0	32.0	32.0	32.0	32.0	30.8	29.6	27.8
7.5°	33.2	33.2	32.6	32.6	32.6	32.6	32.0	31.4	30.2	27.8	26.1
10°	33.8	33.8	33.8	33.8	33.2	32.6	32.0	30.8	29.0	26.1	24.3
12.5°	37.9	37.9	37.3	36.1	34.9	33.8	32.6	30.2	26.6	23.7	21.9
15°	47.4	46.8	45.6	43.8	41.5	38.5	36.1	29.6	24.3	20.7	19.5
17.5°	66.3	65.1	63.4	57.4	52.1	46.8	42.0	29.6	21.9	18.4	17.2
20°	115.5	116.1	103.6	89.4	77.6	64.5	52.7	30.8	19.5	16.0	15.4
22.5°	241.0	231.5	201.9	167.6	127.9	98.9	74.6	33.8	17.2	13.6	13.6
25°	517.0	480.9	409.2	309.1	217.9	154.6	108.4	37.9	15.4	11.8	12.4
27.5°	943.9	911.4	767.5	578.0	383.7	233.3	146.9	43.2	13.6	10.1	11.3
30°	1501.8	1411.8	1224.0	947.5	641.3	357.1	197.2	49.2	11.3	8.9	10.7
31°	1675.9	1634.4	1405.8	1096.1	751.5	424.0	218.5	50.9	10.7	8.9	10.1
32°	1882.5	1809.1	1604.2	1259.0	863.4	483.8	244.0	52.7	10.1	7.7	10.1
33°	2067.3	1996.2	1746.9	1402.3	976.5	551.9	271.2	53.3	8.9	7.7	9.5
34°	2261.5	2164.4	1917.5	1552.1	1092.6	625.3	296.1	53.9	8.3	7.1	9.5
35°	2400.7	2303.6	2064.3	1670.5	1192.7	690.5	324.5	53.9	7.7	7.1	8.9
36°	2508.5	2423.2	2191.1	1792.5	1292.1	749.1	347.0	53.9	6.5	6.5	8.9
37°	2582.5	2501.4	2276.3	1897.3	1367.9	801.2	367.2	53.9	5.9	6.5	8.9
38°	2618.6	2551.1	2358.7	1973.7	1441.4	842.1	383.1	52.7	5.3	5.9	8.3
39°	2634.0	2578.9	2409.0	2038.3	1496.4	877.6	395.0	51.5	4.7	5.9	8.3
40°	2631.6	2583.7	2437.4	2082.7	1540.9	901.9	401.5	49.7	4.1	5.3	8.3
41°	2618.0	2576.6	2452.2	2120.6	1567.5	918.5	403.3	48.0	3.6	5.3	7.7
42°	2602.6	2564.7	2457.0	2140.7	1584.7	923.8	398.5	45.6	3.6	4.7	7.7
43°	2586.6	2551.7	2457.0	2147.2	1588.8	920.2	390.8	41.5	3.0	4.7	7.7
44°	2573.6	2540.5	2449.3	2145.5	1579.9	906.6	376.6	36.7	2.4	4.7	7.7
45°	2558.2	2525.6	2439.2	2134.2	1562.8	883.5	358.9	32.6	1.8	4.1	7.7
46°	2531.0	2505.5	2421.4	2111.1	1535.5	851.6	336.4	29.6	1.2	4.1	7.1
47°	2478.3	2456.4	2387.1	2076.8	1499.4	813.7	313.3	26.6	1.2	4.1	7.1
48°	2372.3	2371.7	2318.4	2012.8	1442.0	766.3	289.0	23.7	1.2	4.1	7.1
49°	2269.8	2259.2	2192.8	1900.3	1359.6	709.4	263.5	21.3	0.6	4.1	7.1
50°	2213.6	2190.5	2081.5	1767.7	1254.2	630.7	236.3	17.8	0.6	3.6	7.1
51°	2154.9	2121.8	1993.3	1648.0	1128.7	554.9	206.7	14.2	0.6	3.6	6.5
52°	2048.9	2017.6	1873.7	1533.7	1006.7	477.3	178.2	11.8	0.6	3.6	7.1
53°	1934.7	1889.6	1733.3	1408.2	899.5	408.6	149.2	10.1	0.6	3.6	6.5
54°	1790.8	1770.6	1591.2	1254.2	774.0	342.3	122.6	8.3	0.6	3.6	6.5
55°	1655.1	1625.5	1439.0	1096.7	660.3	280.7	102.4	6.5	0.6	3.6	6.5
56°	1482.2	1437.8	1263.1	952.2	544.8	226.2	86.5	5.3	0.6	3.6	6.5
57°	1276.1	1228.8	1090.8	791.7	427.6	172.3	72.2	4.1	0.6	3.6	6.5
58°	1079.5	1038.7	890.6	611.1	322.1	119.6	59.8	3.0	0.6	3.0	6.5
59°	932.7	887.7	740.8	470.2	223.8	88.2	45.0	2.4	0.6	3.6	6.5
60°	807.7	749.7	596.3	364.2	159.9	63.4	33.2	1.2	1.2	3.6	6.5
62.5°	465.5	411.0	284.8	148.0	65.7	32.6	16.0	0.6	1.2	3.6	6.5
65°	117.8	104.8	68.1	32.0	18.4	11.3	5.9	0.6	1.2	3.0	5.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.1	4.1	4.1	3.6	3.0	2.4	1.2	0.6	1.2	3.0	5.9
70°	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.6	1.2	3.0	5.3
72.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.8	3.0	4.7
75°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.8	3.0	4.7
77.5°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.4	4.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.4	3.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.4	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	1.8	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.4	1.8
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):**

	135°	157.5°	180°
0°	30.2	30.2	30.2
2.5°	28.4	28.4	28.4
5°	26.6	26.6	26.1
7.5°	24.9	24.3	24.3
10°	22.5	22.5	22.5
12.5°	20.7	20.7	20.7
15°	18.9	19.5	19.5
17.5°	17.2	18.4	18.4
20°	16.0	17.2	17.8
22.5°	14.8	16.0	16.6
25°	14.2	15.4	16.0
27.5°	13.0	14.8	16.0
30°	12.4	14.2	15.4
31°	12.4	14.2	14.8
32°	11.8	14.2	14.8
33°	11.8	14.2	14.8
34°	11.8	13.6	14.8
35°	11.3	13.6	14.2
36°	11.3	13.6	14.2
37°	11.3	13.6	14.8
38°	11.3	13.6	14.2
39°	10.7	13.6	14.2
40°	10.7	13.6	14.2
41°	10.7	13.6	14.2
42°	10.7	13.6	14.2
43°	10.7	13.6	14.2
44°	10.7	13.0	14.2
45°	10.7	13.0	14.2
46°	10.7	13.6	14.2
47°	10.7	13.6	14.8
48°	10.7	13.0	14.2
49°	10.1	13.0	14.2
50°	10.1	13.0	14.2
51°	10.1	13.6	14.8
52°	10.1	13.6	14.8
53°	10.1	13.6	14.8
54°	10.1	13.6	14.2
55°	10.1	13.6	14.8
56°	10.1	13.6	14.2
57°	10.1	13.6	14.2
58°	10.1	13.0	14.2
59°	10.1	13.0	14.2
60°	10.1	13.0	14.2
62.5°	9.5	13.0	14.2
65°	9.5	12.4	13.6



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	8.9	12.4	13.0
70°	8.3	11.8	12.4
72.5°	7.7	11.3	11.8
75°	7.1	10.1	10.7
77.5°	5.9	8.9	10.1
80°	5.3	7.7	8.3
82.5°	4.1	6.5	7.1
85°	3.0	4.7	4.7
87.5°	1.2	2.4	2.4
90°	0.0	0.0	0.0

(END OF REPORT)