

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: P1326203

Luminaire Tested: LDSQA3D09R25W2N902765DE010 3LSQCA45R 1MW\_3000K

Issue Date: 1/29/2026

**Test Information**

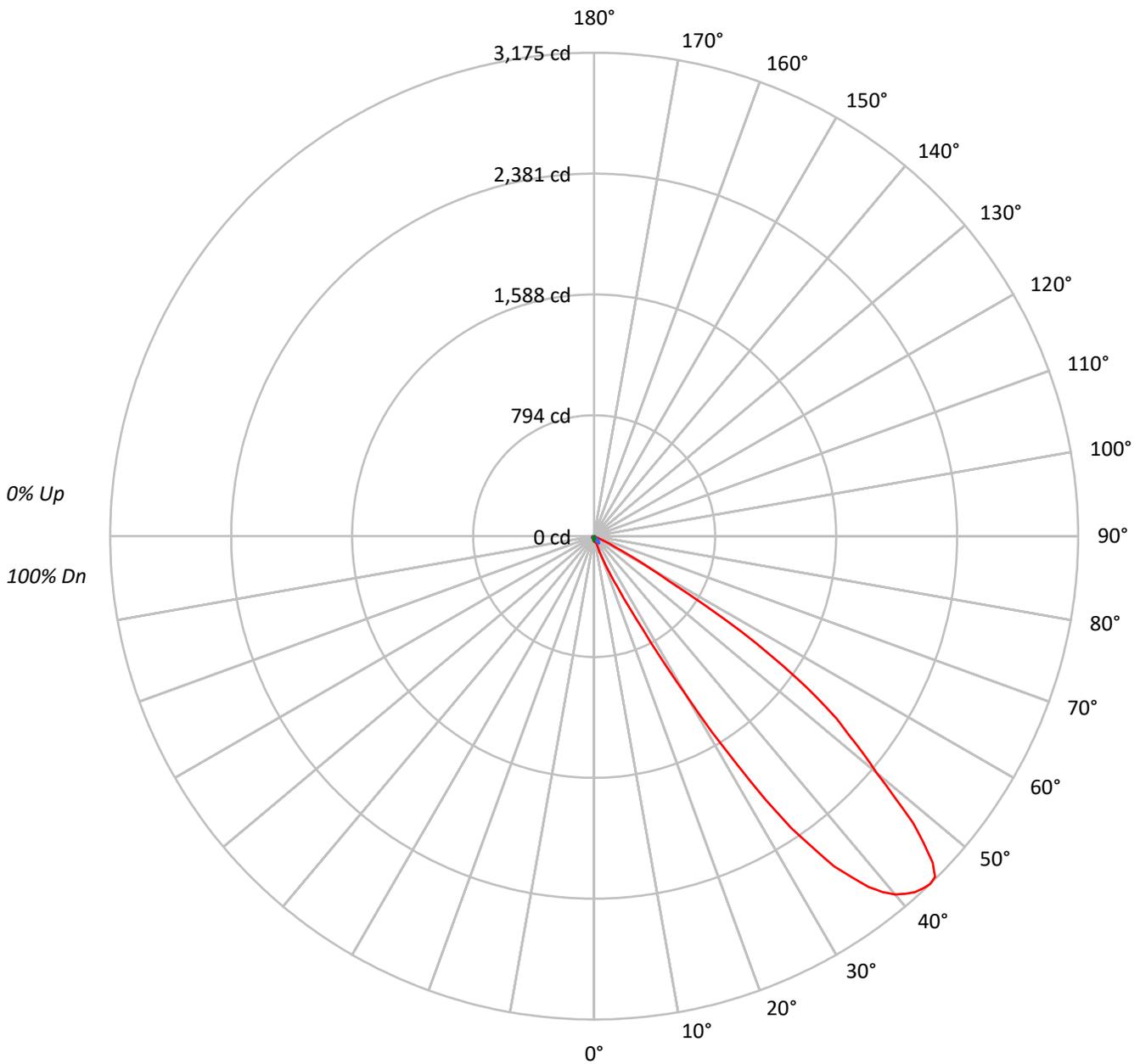
Test Method: LM-79-2019  
Report Number: P1326203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R25W2N902765DE010 3LSQCA45R 1MW\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 662.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37  
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	108	104	101	97	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	75	75	75	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	63	63	63	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	32	32	32	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	27	27	27	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	23	23	23	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	19	19	19	17

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

	0°	45°	90°	135°	180°
0°	5821	5821	5821	5821	5821
5°	6639	6345	5636	5031	4927
10°	6628	6016	4792	4180	4180
15°	7382	5188	3744	3530	3744
20°	26043	5132	2877	2987	3317
25°	74947	6537	2318	2774	3211
30°	239116	10082	1849	2665	3242
35°	523720	11879	1598	2565	3301
40°	690852	10746	1304	2630	3530
45°	770428	7526	1267	2850	3824
50°	648527	3912	1259	2974	4207
55°	484861	1561	1231	3333	4714
60°	150075	413	1206	3617	5201
65°	12837	0	1426	3790	5705
70°	856	302	1460	4381	6445
75°	799	399	1930	4658	7386
80°	595	595	2876	5157	8629
85°	1186	1186	4545	5730	9287

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 770428 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.0	0.5
10°-20°	7.8	1.2
20°-30°	36.6	5.5
30°-40°	176.3	26.6
40°-50°	276.4	41.8
50°-60°	141.7	21.4
60°-70°	13.4	2.0
70°-80°	4.5	0.7
80°-90°	2.3	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°	47.5	7.2
0°-40°	223.8	33.8
0°-60°	641.9	97.0
0°-90°	662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	662.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	38	37	33	29	28	4
15°	41	29	21	20	21	17
25°	394	34	12	15	17	245
35°	2491	56	8	12	16	1512
45°	3163	31	5	12	16	2315
55°	1615	5	4	11	16	1344
65°	32	0	4	9	14	99
75°	1	1	3	7	11	1
85°	1	1	2	3	5	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	36.7	36.7	36.7	36.7	36.7	36.7	36.1	36.1	36.7	36.1	36.1
5°	38.4	38.4	38.4	38.4	38.4	38.4	38.4	37.9	37.9	37.9	36.7
7.5°	39.0	38.4	38.4	38.4	38.4	38.4	38.4	38.4	37.9	37.9	36.1
10°	37.9	37.9	37.9	37.9	37.3	37.3	37.3	36.7	36.7	36.7	34.4
12.5°	37.9	37.9	37.9	37.9	37.3	37.3	36.7	36.7	36.1	35.5	31.5
15°	41.4	41.4	41.4	40.8	40.2	39.6	39.0	38.4	37.9	36.7	29.1
17.5°	60.6	58.8	58.3	55.9	53.0	50.1	47.8	45.4	43.1	41.4	28.0
20°	142.1	141.6	138.6	131.7	124.1	115.3	106.6	96.7	82.7	73.4	28.0
22.5°	246.4	242.9	237.7	232.4	219.0	203.3	187.0	168.4	150.3	131.1	29.7
25°	394.4	402.5	385.1	371.1	347.8	319.2	288.4	262.7	230.1	199.8	34.4
27.5°	685.7	690.9	656.5	611.1	556.9	496.9	438.7	395.0	340.2	290.1	43.1
30°	1202.4	1207.6	1149.9	1053.2	941.4	842.9	709.5	592.4	484.7	401.4	50.7
31°	1500.6	1459.9	1392.9	1299.1	1157.5	1009.0	848.8	707.2	570.9	461.4	53.0
32°	1759.9	1756.4	1678.3	1536.2	1394.0	1210.5	1011.9	827.2	660.0	522.0	54.8
33°	2065.7	2042.4	1932.3	1798.3	1610.2	1425.5	1169.2	958.3	751.5	589.5	55.9
34°	2311.0	2248.0	2202.6	2049.4	1850.7	1615.4	1341.0	1096.9	865.7	654.8	56.5
35°	2491.0	2477.6	2389.0	2246.3	2044.1	1803.6	1526.3	1240.8	961.2	730.5	56.5
36°	2681.5	2640.1	2553.9	2424.5	2227.6	1978.9	1667.8	1365.5	1072.5	798.7	55.9
37°	2800.9	2776.4	2690.8	2557.4	2364.5	2126.9	1826.3	1497.1	1161.0	866.8	54.8
38°	2923.8	2874.3	2789.8	2662.2	2472.9	2249.8	1941.0	1598.5	1242.6	926.8	53.0
39°	3008.8	2957.6	2871.4	2744.4	2559.1	2337.8	2031.9	1684.7	1313.6	971.7	50.7
40°	3072.9	3023.4	2936.0	2805.5	2622.6	2407.1	2107.6	1761.0	1373.1	1010.7	47.8
41°	3112.5	3066.5	2979.7	2849.8	2666.3	2446.7	2157.2	1810.5	1413.3	1036.9	44.9
42°	3145.7	3098.6	3010.0	2877.2	2693.1	2480.5	2187.5	1842.0	1440.6	1050.3	42.5
43°	3164.4	3117.2	3031.0	2895.2	2709.4	2496.2	2203.8	1856.6	1450.0	1048.6	38.4
44°	3174.9	3125.9	3039.1	2903.4	2716.4	2500.3	2204.9	1853.7	1443.5	1034.6	35.0
45°	3163.2	3114.9	3031.0	2895.2	2704.2	2487.5	2193.3	1837.9	1419.1	1007.2	30.9
46°	3087.5	3050.2	2973.3	2848.6	2665.7	2454.8	2163.6	1807.6	1381.2	973.4	26.2
47°	2954.1	2924.4	2849.8	2757.2	2591.7	2394.8	2108.8	1750.0	1328.2	922.8	21.0
48°	2814.9	2771.2	2701.8	2606.9	2467.1	2287.1	2018.5	1665.5	1247.8	856.3	18.6
49°	2609.2	2583.6	2522.4	2416.4	2300.5	2142.0	1890.9	1557.1	1149.4	784.1	16.3
50°	2420.5	2403.0	2317.4	2239.3	2116.4	1968.4	1717.9	1414.4	1027.0	694.4	14.6
51°	2273.1	2252.1	2190.4	2093.1	1962.0	1790.2	1554.2	1229.2	886.6	587.8	11.7
52°	2119.3	2107.6	2052.9	1952.7	1823.9	1652.7	1395.2	1071.9	750.3	496.9	9.3
53°	1993.5	1976.6	1909.6	1820.5	1681.2	1504.1	1222.8	925.7	635.6	417.7	8.2
54°	1810.0	1803.0	1759.9	1666.7	1515.8	1323.0	1066.6	779.4	530.1	354.2	7.0
55°	1614.8	1591.5	1547.8	1473.8	1335.2	1155.2	886.1	646.0	428.8	298.3	5.2
56°	1377.1	1376.0	1297.9	1236.2	1113.2	922.2	707.8	504.5	348.4	248.7	4.7
57°	1149.9	1113.2	1038.1	976.9	844.7	699.6	525.5	378.1	272.6	201.6	3.5
58°	850.5	831.3	811.5	721.8	599.4	495.7	375.2	265.6	201.6	153.8	2.3
59°	577.3	576.7	553.4	485.3	414.8	308.7	234.2	180.6	138.6	113.0	1.7
60°	435.7	425.3	378.7	333.8	261.0	195.2	138.6	106.6	86.2	72.8	1.2
62.5°	152.6	158.5	139.2	115.3	88.0	72.2	55.3	44.9	36.7	29.7	0.0
65°	31.5	34.4	29.7	28.0	22.1	19.2	16.9	14.6	12.2	10.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	4.1	3.5	3.5	3.5	2.9	2.9	2.9	2.9	2.3	2.3	0.6
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2	0.6
72.5°	1.7	1.7	1.7	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	35.5	34.4	32.6	32.0	31.5	31.5
5°	35.0	32.6	30.9	29.1	28.5	28.5
7.5°	33.2	30.3	28.0	26.8	26.2	25.6
10°	31.5	27.4	25.0	23.9	23.9	23.9
12.5°	28.0	24.5	22.1	21.6	22.1	22.1
15°	25.0	21.0	19.8	19.8	20.4	21.0
17.5°	21.6	18.6	17.5	18.1	18.6	19.2
20°	19.2	15.7	15.7	16.3	18.1	18.1
22.5°	16.9	14.0	14.0	15.7	16.9	17.5
25°	15.1	12.2	12.8	14.6	16.3	16.9
27.5°	12.8	10.5	11.7	14.0	15.7	16.3
30°	11.1	9.3	11.1	13.4	15.1	16.3
31°	10.5	8.7	11.1	12.8	15.1	16.3
32°	9.3	8.7	10.5	12.8	15.1	15.7
33°	8.7	8.2	10.5	12.8	15.1	15.7
34°	8.2	7.6	9.9	12.8	15.1	15.7
35°	7.0	7.6	9.9	12.2	14.6	15.7
36°	6.4	7.0	9.9	12.2	14.6	15.7
37°	5.8	7.0	9.3	12.2	14.6	15.7
38°	5.2	6.4	9.3	12.2	14.6	15.7
39°	4.7	6.4	8.7	12.2	14.6	15.7
40°	4.1	5.8	8.7	11.7	14.6	15.7
41°	4.1	5.8	8.7	11.7	14.6	15.7
42°	3.5	5.8	8.7	11.7	14.6	15.7
43°	2.9	5.2	8.7	11.7	14.6	15.7
44°	2.3	5.2	8.2	11.7	14.6	15.7
45°	2.3	5.2	8.2	11.7	14.6	15.7
46°	1.7	4.7	8.2	11.7	14.6	15.7
47°	1.2	4.7	8.2	11.1	14.6	15.7
48°	1.2	4.7	8.2	11.1	14.6	15.7
49°	1.2	4.7	7.6	11.1	14.6	15.7
50°	1.2	4.7	7.6	11.1	14.6	15.7
51°	0.6	4.1	7.6	11.1	14.6	15.7
52°	0.6	4.1	7.6	11.1	14.6	16.3
53°	0.6	4.1	7.6	11.1	14.6	15.7
54°	0.6	4.1	7.0	11.1	14.6	15.7
55°	0.6	4.1	7.0	11.1	14.6	15.7
56°	0.6	3.5	7.0	10.5	14.6	15.7
57°	1.2	3.5	7.0	10.5	14.6	15.1
58°	1.2	3.5	7.0	10.5	14.0	15.1
59°	1.2	3.5	7.0	10.5	14.0	15.1
60°	1.2	3.5	6.4	10.5	14.0	15.1
62.5°	1.2	3.5	6.4	9.9	13.4	14.6
65°	1.2	3.5	5.8	9.3	13.4	14.0



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.2	2.9	5.8	8.7	12.8	13.4
70°	1.7	2.9	5.2	8.7	12.2	12.8
72.5°	1.7	2.9	5.2	7.6	11.1	12.2
75°	1.7	2.9	4.7	7.0	10.5	11.1
77.5°	1.7	2.9	4.1	6.4	9.3	9.9
80°	2.3	2.9	3.5	5.2	8.2	8.7
82.5°	2.3	2.9	2.9	4.1	6.4	7.0
85°	1.7	2.3	2.3	2.9	4.1	4.7
87.5°	1.7	2.3	1.7	1.2	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)