

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: P1315448

Luminaire Tested: LDSQA3D09R309735DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315448  
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: LDSQA3D09R309735DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

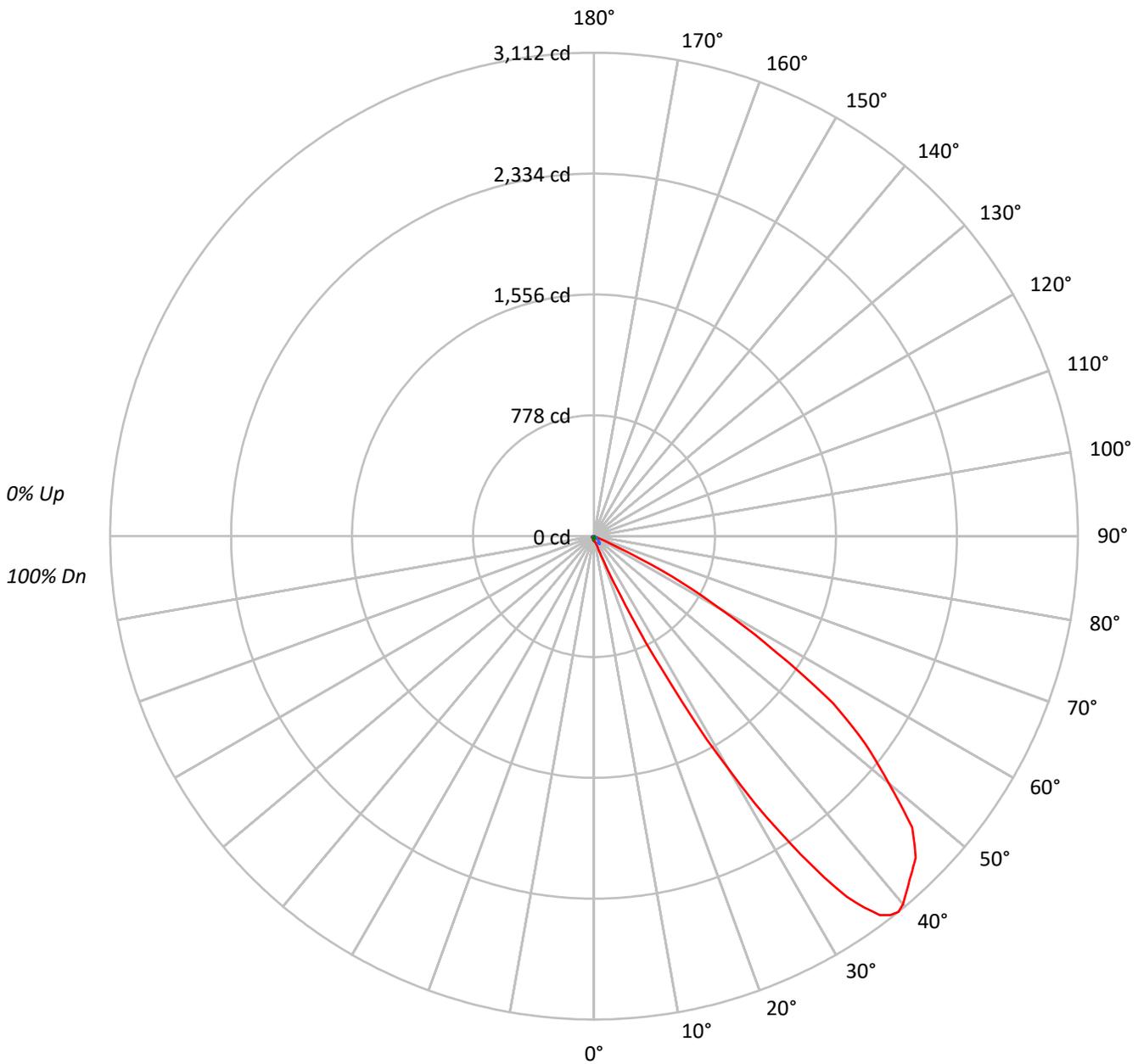
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 809.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 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): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17

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

	0°	45°	90°	135°	180°
0°	5391	5391	5391	5391	5391
5°	5774	5653	5307	4823	4720
10°	6313	5596	4652	4180	4057
15°	9236	5581	3887	3530	3637
20°	23239	6121	3006	3006	3372
25°	107878	7639	2337	2717	3116
30°	343401	10580	1770	2565	3122
35°	595876	12888	1430	2439	3154
40°	694943	12860	1079	2451	3215
45°	712704	9133	1169	2655	3483
50°	662781	5117	911	2733	4019
55°	563320	2672	1021	3063	4504
60°	325329	689	1171	3272	4926
65°	66384	0	1386	3871	5542
70°	1007	352	1712	4482	6496
75°	932	466	1797	4525	7719
80°	694	694	2678	5455	8827
85°	0	1383	5335	5335	10868

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 712704 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	8.2	1.0
20°-30°	46.7	5.8
30°-40°	217.9	26.9
40°-50°	308.1	38.1
50°-60°	189.6	23.4
60°-70°	28.9	3.6
70°-80°	4.6	0.6
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°	57.6	7.1
0°-40°	275.5	34.1
0°-60°	773.3	95.6
0°-90°	809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	33	33	31	28	27	3
15°	52	31	22	20	20	18
25°	568	40	12	14	16	349
35°	2834	61	7	12	15	1701
45°	2926	38	5	11	14	2218
55°	1876	9	3	10	15	1596
65°	163	0	3	10	14	295
75°	1	1	3	7	12	1
85°	0	1	3	3	6	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°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
2.5°	32.0	32.0	32.7	32.7	32.0	32.7	32.7	32.7	31.3	30.7	29.3
5°	33.4	33.4	33.4	34.1	33.4	33.4	32.7	32.0	30.7	28.6	27.9
7.5°	34.8	34.8	34.1	34.8	34.1	34.1	32.7	31.3	29.3	27.3	25.9
10°	36.1	36.1	35.4	35.4	34.8	34.8	32.0	30.0	26.6	24.5	23.9
12.5°	40.2	40.2	39.5	38.8	37.5	36.8	31.3	27.9	23.9	21.8	21.1
15°	51.8	51.1	49.7	47.7	44.3	43.6	31.3	25.9	21.8	19.8	19.8
17.5°	70.9	70.2	68.1	62.7	56.6	54.5	31.3	23.2	19.1	17.7	17.7
20°	126.8	121.3	111.1	97.4	83.1	75.6	33.4	20.4	16.4	15.7	16.4
21°	165.6	160.1	147.2	124.7	99.5	91.3	34.8	19.8	15.7	15.0	16.4
22°	225.6	219.4	192.9	162.2	126.1	111.8	35.4	18.4	14.3	14.3	15.7
23°	314.8	304.6	259.6	210.6	157.4	137.0	36.8	17.7	13.6	14.3	15.0
24°	412.3	403.4	352.3	278.7	201.0	171.7	38.2	17.0	12.9	12.9	14.3
25°	567.7	557.4	466.8	351.6	254.9	206.5	40.2	15.7	12.3	12.3	14.3
26°	768.7	721.7	601.1	453.2	314.2	259.0	42.3	15.0	11.6	12.3	13.6
27°	959.5	920.7	785.1	581.3	388.4	318.2	45.0	14.3	10.9	11.6	13.6
28°	1210.3	1155.8	984.7	735.3	489.3	385.0	47.7	13.6	10.2	11.6	12.9
29°	1491.1	1414.7	1208.2	908.4	603.1	460.0	50.4	12.9	9.5	10.9	12.9
30°	1726.8	1655.3	1448.8	1113.5	733.9	558.8	53.2	12.3	8.9	10.9	12.9
31°	2003.5	1895.2	1645.1	1287.3	846.4	657.6	55.9	10.9	8.2	10.2	12.3
32°	2227.7	2152.1	1886.3	1483.6	994.3	766.7	57.9	10.2	8.2	10.2	12.3
33°	2444.4	2342.9	2086.0	1671.6	1127.8	878.4	60.0	9.5	7.5	9.5	12.3
34°	2651.6	2558.2	2274.7	1823.6	1253.9	984.7	61.3	8.2	7.5	9.5	11.6
35°	2834.2	2725.9	2441.0	1972.2	1383.4	1081.5	61.3	7.5	6.8	8.9	11.6
36°	2952.8	2875.1	2585.5	2118.7	1500.6	1173.5	61.3	6.8	6.1	8.9	10.9
37°	3054.3	2963.7	2701.3	2231.1	1587.1	1247.1	61.3	6.1	6.1	8.9	10.9
38°	3095.9	3018.2	2781.1	2330.6	1668.2	1322.0	60.7	5.5	5.5	8.2	10.9
39°	3112.3	3042.8	2841.0	2402.2	1728.2	1372.5	59.3	4.8	5.5	8.2	10.9
40°	3091.1	3038.7	2871.7	2448.5	1775.9	1409.3	57.2	4.1	4.8	8.2	10.9
42.5°	3003.9	2969.2	2864.9	2494.9	1816.8	1436.5	49.7	2.7	4.8	7.5	10.9
45°	2926.2	2888.1	2796.1	2446.5	1763.6	1382.7	37.5	1.4	4.8	7.5	10.9
47.5°	2775.6	2751.8	2679.5	2323.1	1647.1	1261.4	26.6	0.7	4.1	6.8	10.2
50°	2473.7	2451.2	2355.8	2017.1	1416.8	1066.5	19.1	0.7	3.4	6.8	10.2
52.5°	2203.2	2179.3	2042.4	1677.1	1088.3	781.6	12.3	0.7	3.4	6.8	10.2
55°	1876.1	1834.5	1654.6	1273.0	771.4	524.0	8.9	0.7	3.4	6.1	10.2
57.5°	1388.8	1328.2	1167.4	868.2	444.3	284.2	4.8	0.7	3.4	6.1	10.2
60°	944.5	908.4	730.5	457.9	189.4	119.9	2.0	0.7	3.4	6.1	9.5
62.5°	572.4	526.8	367.3	194.9	81.8	54.5	0.0	1.4	3.4	6.1	9.5
65°	162.9	144.5	96.1	44.3	23.2	17.7	0.0	1.4	3.4	6.1	9.5
67.5°	5.5	5.5	5.5	4.8	3.4	3.4	0.7	1.4	3.4	6.1	8.9
70°	2.0	2.0	2.0	1.4	1.4	0.7	0.7	1.4	3.4	5.5	8.9
72.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	1.4	2.7	4.8	8.2
75°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.0	2.7	4.8	6.8
77.5°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.0	2.7	4.1	6.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	4.1	5.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.7	2.0	2.7	2.7	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.0	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.0	2.0	1.4
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°	31.3	31.3
2.5°	29.3	29.3
5°	27.3	27.3
7.5°	25.2	25.2
10°	23.2	23.2
12.5°	21.8	21.8
15°	19.8	20.4
17.5°	18.4	19.1
20°	17.7	18.4
21°	17.7	18.4
22°	17.0	17.7
23°	17.0	17.7
24°	16.4	17.0
25°	15.7	16.4
26°	15.7	16.4
27°	15.7	16.4
28°	15.0	16.4
29°	15.0	15.7
30°	15.0	15.7
31°	14.3	15.7
32°	14.3	15.7
33°	14.3	15.0
34°	13.6	15.0
35°	13.6	15.0
36°	13.6	15.0
37°	13.6	14.3
38°	13.6	15.0
39°	13.6	14.3
40°	13.6	14.3
42.5°	13.6	14.3
45°	13.6	14.3
47.5°	13.6	15.0
50°	13.6	15.0
52.5°	13.6	15.0
55°	13.6	15.0
57.5°	13.6	14.3
60°	13.6	14.3
62.5°	12.9	14.3
65°	12.9	13.6
67.5°	12.9	13.6
70°	12.3	12.9
72.5°	11.6	12.3
75°	10.2	11.6
77.5°	9.5	10.2
80°	8.2	8.9



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**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
82.5°	6.8	6.8
85°	4.8	5.5
87.5°	2.7	2.7
90°	0.0	0.0

(END OF REPORT)