

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: P1312417

Luminaire Tested: LDSQA3D09R409050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

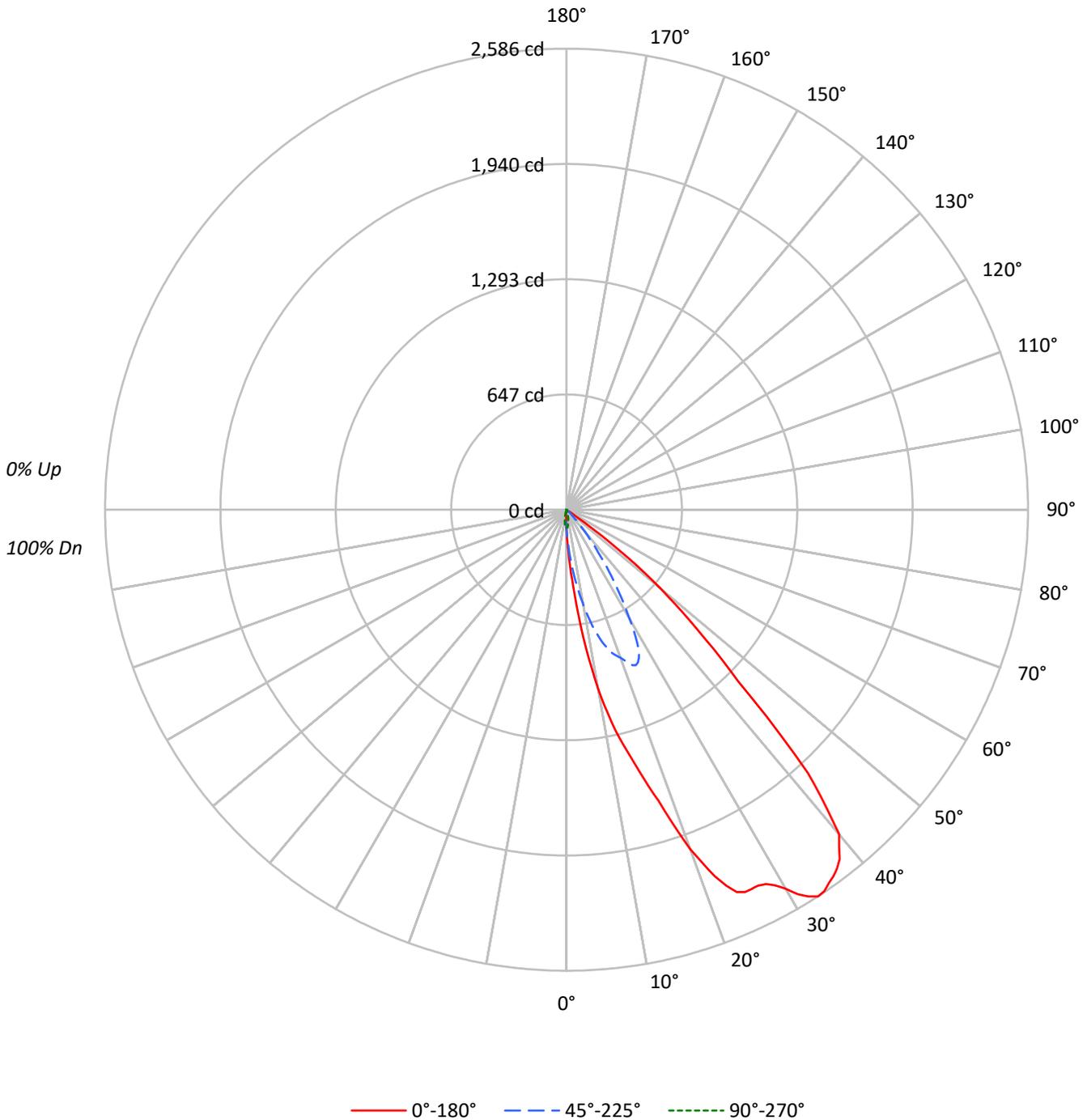
Test Method: LM-79-2019  
Report Number: P1312417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R409050DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 868.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
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





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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	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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	17481	17481	17481	17481	17481
5°	74218	50585	15335	2766	1383
10°	178377	94085	9513	280	0
15°	262544	136683	3994	0	0
20°	371096	162034	1466	0	0
25°	449489	179860	0	0	0
30°	488036	140697	0	0	0
35°	538143	82353	0	0	0
40°	534129	33431	0	0	0
45°	330778	9742	0	0	0
50°	184202	214	0	0	0
55°	18016	0	0	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	403	806	0	0
75°	0	532	1065	0	0
80°	0	793	1587	0	0
85°	0	1581	3162	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 332337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.0	2.2
10°-20°	111.9	12.9
20°-30°	255.4	29.4
30°-40°	301.6	34.7
40°-50°	161.1	18.6
50°-60°	17.5	2.0
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.6	0.1
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°	386.3	44.5
0°-40°	687.9	79.2
0°-60°	866.5	99.8
0°-90°	868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	102	102	102	102	102	
5°	429	293	89	16	8	60
15°	1472	767	22	0	0	437
25°	2365	946	0	0	0	1074
35°	2560	392	0	0	0	1581
45°	1358	40	0	0	0	1120
55°	60	0	0	0	0	168
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	236.6	231.8	235.0	228.6	228.6	214.2	215.0	203.0	185.5	141.5	100.7
5°	429.3	448.5	433.3	413.3	402.1	387.7	368.5	348.5	292.6	176.7	88.7
7.5°	718.6	717.0	691.5	669.9	645.1	606.7	570.8	522.0	416.5	202.2	73.5
10°	1020.0	1014.4	985.6	967.2	920.1	864.9	791.4	713.0	538.0	211.0	54.4
12.5°	1271.0	1263.8	1239.8	1208.7	1156.7	1087.2	1008.0	904.9	665.9	201.4	35.2
15°	1472.5	1470.9	1447.7	1405.3	1351.0	1283.0	1193.5	1069.6	766.6	176.7	22.4
17.5°	1711.5	1721.1	1679.5	1633.9	1555.6	1460.5	1351.0	1209.5	840.9	146.3	14.4
20°	2024.8	2011.2	1972.9	1906.5	1831.4	1717.1	1562.0	1359.7	884.1	113.5	8.0
21°	2120.8	2115.2	2075.2	2013.6	1930.5	1814.6	1654.7	1436.5	904.1	101.5	6.4
22°	2218.3	2208.7	2177.5	2117.6	2039.2	1908.1	1732.3	1515.6	929.7	88.7	4.0
23°	2291.0	2287.0	2263.0	2203.9	2123.2	1996.0	1816.2	1589.2	947.3	76.7	2.4
24°	2347.0	2342.2	2318.2	2273.4	2203.9	2071.2	1900.9	1668.3	954.5	66.3	0.8
25°	2365.4	2367.8	2353.4	2318.2	2259.8	2127.1	1964.1	1730.7	946.5	56.8	0.0
26°	2366.2	2373.4	2363.0	2343.0	2295.0	2171.9	2023.2	1767.4	925.7	48.0	0.0
27°	2366.2	2373.4	2363.0	2347.8	2300.6	2197.5	2055.2	1771.4	893.7	40.8	0.0
28°	2377.4	2381.3	2367.8	2349.4	2298.2	2205.5	2064.0	1747.4	842.5	35.2	0.0
29°	2408.5	2404.5	2382.1	2357.4	2295.8	2205.5	2037.6	1701.9	778.6	29.6	0.0
30°	2454.1	2454.1	2418.9	2379.8	2307.0	2204.7	1995.2	1619.5	707.5	24.0	0.0
31°	2515.6	2510.0	2474.9	2416.5	2331.0	2204.7	1932.9	1528.4	641.9	20.8	0.0
32°	2557.2	2554.0	2520.4	2451.7	2370.2	2204.7	1865.8	1427.7	570.8	16.8	0.0
33°	2586.0	2579.6	2541.2	2470.1	2394.1	2193.5	1790.6	1319.8	506.8	13.6	0.0
34°	2582.0	2580.4	2540.4	2466.9	2389.3	2147.1	1703.5	1199.9	447.7	11.2	0.0
35°	2559.6	2559.6	2510.8	2434.9	2355.0	2079.2	1617.1	1097.5	391.7	8.0	0.0
36°	2542.8	2536.4	2481.3	2396.5	2297.4	1972.1	1489.2	994.4	331.7	6.4	0.0
37°	2518.0	2506.1	2444.5	2353.4	2215.9	1856.2	1354.9	902.5	280.6	4.0	0.0
38°	2486.1	2467.7	2392.5	2303.0	2126.3	1722.7	1218.3	799.4	233.4	2.4	0.0
39°	2427.7	2412.5	2335.0	2238.3	2019.2	1582.0	1085.6	702.7	188.7	0.8	0.0
40°	2375.8	2349.4	2261.4	2150.3	1893.7	1422.9	953.7	607.5	148.7	0.0	0.0
42.5°	2003.2	1975.3	1955.3	1845.0	1508.4	1021.6	665.9	389.3	77.5	0.0	0.0
45°	1358.1	1364.5	1302.2	1227.8	995.2	665.9	416.5	216.6	40.0	0.0	0.0
47.5°	990.4	973.6	888.9	748.2	583.5	389.3	217.4	104.7	16.0	0.0	0.0
50°	687.5	655.5	578.8	473.2	317.4	185.5	95.9	48.8	0.8	0.0	0.0
52.5°	373.3	350.9	297.4	215.8	131.9	71.1	38.4	20.0	0.0	0.0	0.0
55°	60.0	41.6	43.2	36.8	28.8	20.8	12.0	2.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
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):**

	112.5°	135°	157.5°	180°
0°	101.5	101.5	101.5	101.5
2.5°	67.9	46.4	35.2	30.4
5°	39.2	16.0	8.8	8.0
7.5°	19.2	5.6	3.2	3.2
10°	8.0	1.6	0.0	0.0
12.5°	2.4	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0
72.5°	0.8	0.0	0.0	0.0
75°	0.8	0.0	0.0	0.0
77.5°	0.8	0.0	0.0	0.0
80°	0.8	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.8	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)