

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: P1315811

Luminaire Tested: LDSQA3D17R509735DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

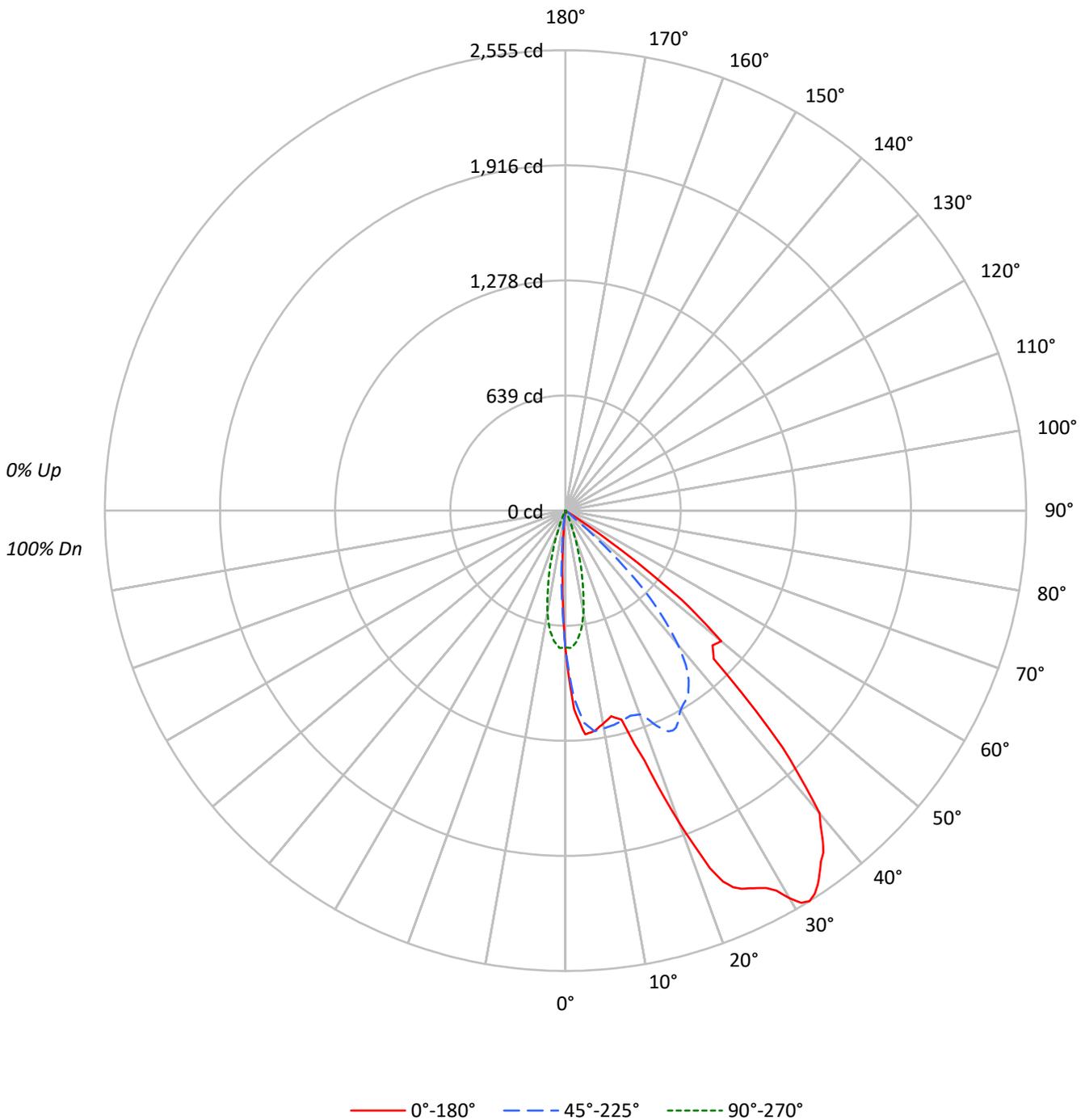
Test Method: LM-79-2019  
Report Number: P1315811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509735DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1223.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	130769	130769	130769	130769	130769
5°	215478	204483	125667	37325	18671
10°	209995	214612	100696	1889	2518
15°	214100	215384	60318	1926	642
20°	337484	220517	24852	0	0
25°	439950	256897	5929	0	0
30°	493803	254071	239	0	0
35°	516782	250192	0	0	0
40°	492987	217379	0	0	0
45°	283114	143457	0	0	0
50°	302119	16397	0	0	0
55°	86085	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	2380	1190	0
85°	0	2371	4742	2371	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 312633 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.8	5.2
10°-20°	160.7	13.1
20°-30°	308.6	25.2
30°-40°	359.2	29.4
40°-50°	257.1	21.0
50°-60°	71.6	5.9
60°-70°	0.5	0.0
70°-80°	0.7	0.1
80°-90°	0.9	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°	533.1	43.6
0°-40°	892.3	73.0
0°-60°	1220.9	99.8
0°-90°	1223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	759	759	759	759	759	
5°	1246	1183	727	216	108	114
15°	1201	1208	338	11	4	388
25°	2315	1352	31	0	0	1053
35°	2458	1190	0	0	0	1521
45°	1162	589	0	0	0	1093
55°	287	0	0	0	0	361
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	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°	759.3	759.3	759.3	759.3	759.3	759.3	759.3	759.3	759.3	759.3	759.3
2.5°	1103.6	1109.6	1110.8	1096.4	1098.8	1078.4	1079.6	1065.2	1030.4	909.3	762.9
5°	1246.4	1242.8	1246.4	1241.6	1246.4	1234.4	1227.2	1221.2	1182.8	1011.3	726.9
7.5°	1233.2	1228.4	1235.6	1238.0	1246.4	1242.8	1244.0	1247.6	1234.4	1066.4	665.8
10°	1200.8	1199.6	1203.2	1203.2	1212.8	1214.0	1218.8	1226.0	1227.2	1085.6	575.8
12.5°	1169.6	1166.0	1166.0	1164.8	1169.6	1168.4	1180.4	1197.2	1220.0	1073.6	452.2
15°	1200.8	1197.2	1192.4	1179.2	1169.6	1158.8	1160.0	1170.8	1208.0	1042.4	338.3
17.5°	1452.7	1433.5	1409.5	1367.5	1323.1	1246.4	1200.8	1172.0	1193.6	994.5	225.5
20°	1841.4	1833.0	1794.6	1726.2	1654.2	1541.5	1401.1	1288.4	1203.2	934.5	135.6
21°	1988.9	1984.1	1943.3	1879.8	1798.2	1661.4	1517.5	1381.9	1222.4	909.3	106.8
22°	2140.1	2122.1	2089.7	2018.9	1933.7	1797.0	1636.2	1486.3	1260.8	876.9	81.6
23°	2237.2	2226.4	2191.6	2135.3	2053.7	1920.5	1756.2	1593.1	1298.0	840.9	61.2
24°	2287.6	2284.0	2256.4	2216.8	2147.3	2011.7	1855.8	1687.8	1329.1	798.9	44.4
25°	2315.2	2303.2	2286.4	2257.6	2204.8	2087.3	1948.1	1770.6	1351.9	756.9	31.2
26°	2332.0	2324.8	2298.4	2273.2	2222.8	2126.9	2008.1	1821.0	1357.9	705.4	21.6
27°	2351.2	2334.4	2309.2	2279.2	2222.8	2138.9	2030.9	1842.6	1350.7	652.6	14.4
28°	2371.6	2359.6	2324.8	2286.4	2219.2	2138.9	2022.5	1813.8	1329.1	602.2	8.4
29°	2411.2	2395.6	2352.4	2296.0	2220.4	2136.5	1990.1	1753.8	1300.4	545.8	4.8
30°	2483.1	2450.8	2398.0	2318.8	2228.8	2131.7	1936.1	1663.8	1277.6	482.2	1.2
31°	2539.5	2521.5	2460.4	2360.8	2252.8	2118.5	1872.6	1575.1	1262.0	427.1	0.0
32°	2555.1	2541.9	2497.5	2404.0	2293.6	2107.7	1800.6	1488.7	1250.0	365.9	0.0
33°	2537.1	2528.7	2481.9	2396.8	2304.4	2093.3	1717.8	1403.5	1236.8	310.7	0.0
34°	2503.5	2492.7	2452.0	2365.6	2276.8	2030.9	1638.6	1338.7	1217.6	259.1	0.0
35°	2458.0	2449.6	2407.6	2322.4	2226.4	1933.7	1559.5	1295.6	1190.0	207.5	0.0
36°	2408.8	2406.4	2352.4	2268.4	2161.7	1840.2	1463.5	1263.2	1162.4	164.3	0.0
37°	2376.4	2364.4	2305.6	2222.8	2084.9	1731.0	1386.7	1252.4	1124.0	127.2	0.0
38°	2317.6	2320.0	2252.8	2177.3	2006.9	1636.2	1324.3	1244.0	1080.8	92.4	0.0
39°	2248.0	2249.2	2179.7	2114.9	1914.5	1536.7	1272.8	1235.6	1026.8	58.8	0.0
40°	2192.8	2191.6	2112.5	2042.9	1815.0	1443.1	1245.2	1223.6	966.9	33.6	0.0
42.5°	1782.6	1789.8	1799.4	1828.2	1581.1	1278.8	1218.8	1156.4	796.5	0.0	0.0
45°	1162.4	1190.0	1197.2	1283.6	1282.4	1211.6	1156.4	1036.4	589.0	0.0	0.0
47.5°	1106.0	1114.4	1130.0	1163.6	1181.6	1146.8	1034.0	866.1	321.5	0.0	0.0
50°	1127.6	1126.4	1130.0	1130.0	1097.6	1007.7	848.1	639.4	61.2	0.0	0.0
52.5°	809.7	839.7	872.1	886.5	844.5	749.7	619.0	375.5	0.0	0.0	0.0
55°	286.7	277.1	269.9	295.1	289.1	325.1	268.7	87.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	4.8	10.8	14.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4



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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	1.2	1.2	1.2	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.4
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):**

	112.5°	135°	157.5°	180°
0°	759.3	759.3	759.3	759.3
2.5°	608.2	466.6	377.9	383.9
5°	427.1	215.9	133.2	108.0
7.5°	255.5	66.0	13.2	10.8
10°	120.0	10.8	12.0	14.4
12.5°	36.0	9.6	13.2	12.0
15°	9.6	10.8	6.0	3.6
17.5°	3.6	4.8	0.0	0.0
20°	2.4	0.0	0.0	0.0
21°	2.4	0.0	0.0	0.0
22°	1.2	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°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	1.2	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.2	1.2	0.0	0.0
85°	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)