

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: P1320445

Luminaire Tested: LDSQA3D20R509840D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

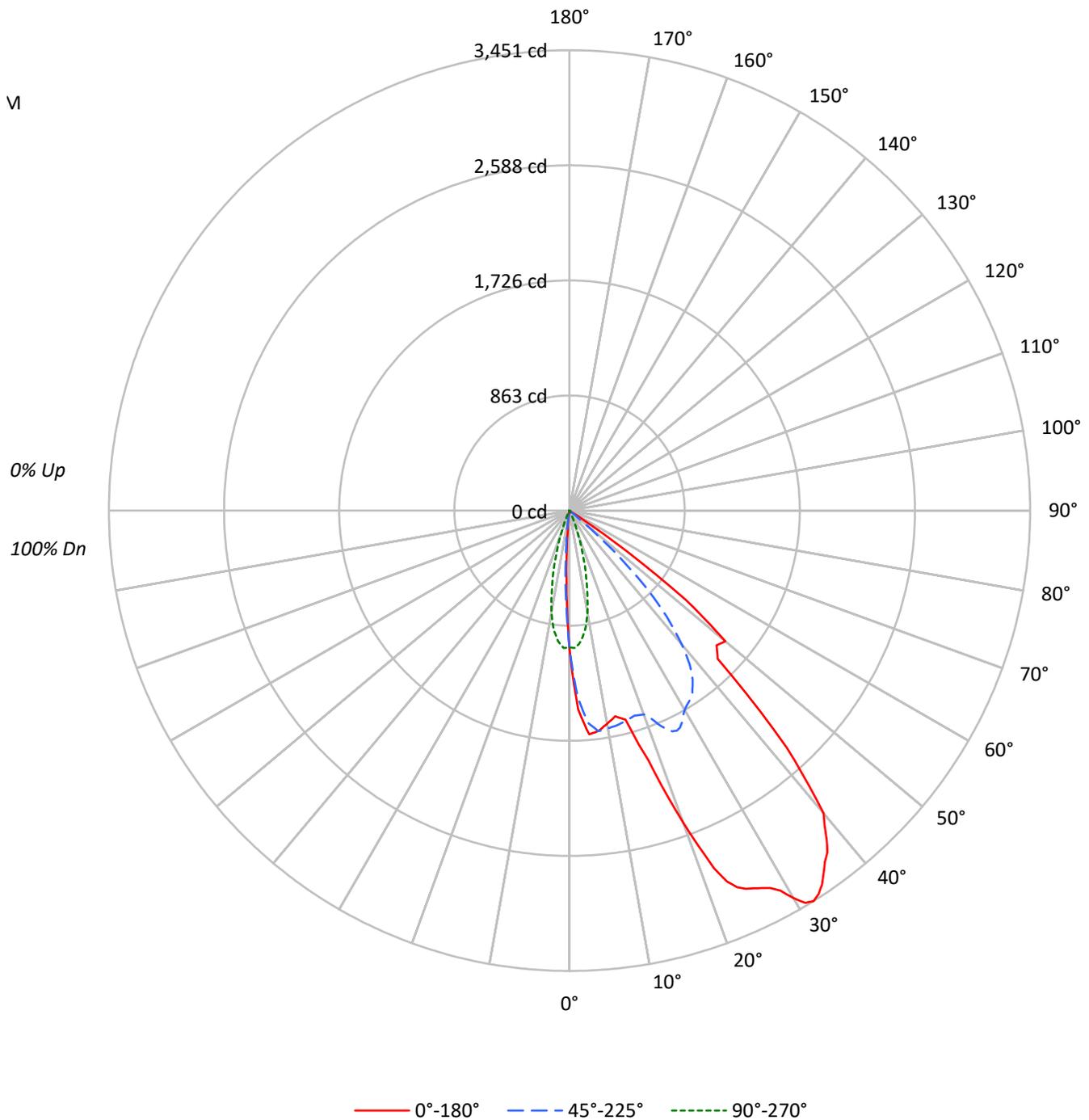
Test Method: LM-79-2019  
Report Number: P1320445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509840D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1652.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 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): 27.4  
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





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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	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	75	75	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	68	68	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	61	61	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	55	55	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	50	50	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	46	46	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	38	37

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

	0°	45°	90°	135°	180°
0°	176649	176649	176649	176649	176649
5°	291062	276211	169751	50429	25206
10°	283654	289880	136021	2553	3393
15°	289199	290929	81464	2603	874
20°	455861	297859	33558	0	0
25°	594270	347027	8000	0	0
30°	667035	343182	318	0	0
35°	698035	337948	0	0	0
40°	665919	293616	0	0	0
45°	382413	193776	0	0	0
50°	408112	22131	0	0	0
55°	116291	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	3174	1587	0
85°	0	3162	6323	3162	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 422284 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.1	5.2
10°-20°	217.0	13.1
20°-30°	416.9	25.2
30°-40°	485.2	29.4
40°-50°	347.3	21.0
50°-60°	96.6	5.9
60°-70°	0.6	0.0
70°-80°	1.0	0.1
80°-90°	1.2	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°	720.0	43.6
0°-40°	1205.3	73.0
0°-60°	1649.2	99.8
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1026	1026	1026	1026	1026	
5°	1684	1598	982	292	146	155
15°	1622	1632	457	15	5	523
25°	3127	1826	42	0	0	1422
35°	3320	1607	0	0	0	2054
45°	1570	796	0	0	0	1477
55°	387	0	0	0	0	488
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	3	2	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°	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7
2.5°	1490.7	1498.8	1500.5	1481.0	1484.3	1456.7	1458.3	1438.9	1391.9	1228.2	1030.6
5°	1683.6	1678.7	1683.6	1677.1	1683.6	1667.4	1657.6	1649.5	1597.7	1366.0	981.9
7.5°	1665.7	1659.3	1669.0	1672.2	1683.6	1678.7	1680.3	1685.2	1667.4	1440.5	899.3
10°	1622.0	1620.4	1625.2	1625.2	1638.2	1639.8	1646.3	1656.0	1657.6	1466.4	777.8
12.5°	1579.9	1575.0	1575.0	1573.4	1579.9	1578.2	1594.4	1617.1	1647.9	1450.2	610.9
15°	1622.0	1617.1	1610.7	1592.8	1579.9	1565.3	1566.9	1581.5	1631.7	1408.1	456.9
17.5°	1962.3	1936.3	1903.9	1847.2	1787.3	1683.6	1622.0	1583.1	1612.3	1343.3	304.6
20°	2487.3	2475.9	2424.1	2331.7	2234.5	2082.2	1892.6	1740.3	1625.2	1262.3	183.1
21°	2686.6	2680.1	2625.0	2539.1	2428.9	2244.2	2049.8	1866.7	1651.2	1228.2	144.2
22°	2890.7	2866.4	2822.7	2727.1	2612.0	2427.3	2210.2	2007.6	1703.0	1184.5	110.2
23°	3022.0	3007.4	2960.4	2884.3	2774.1	2594.2	2372.2	2151.9	1753.2	1135.9	82.6
24°	3090.1	3085.2	3047.9	2994.5	2900.5	2717.4	2506.7	2279.9	1795.4	1079.2	60.0
25°	3127.3	3111.1	3088.4	3049.5	2978.2	2819.5	2631.5	2391.7	1826.2	1022.5	42.1
26°	3150.0	3140.3	3104.6	3070.6	3002.6	2872.9	2712.5	2459.7	1834.3	952.8	29.2
27°	3175.9	3153.2	3119.2	3078.7	3002.6	2889.1	2743.3	2488.9	1824.5	881.5	19.4
28°	3203.5	3187.3	3140.3	3088.4	2997.7	2889.1	2732.0	2450.0	1795.4	813.4	11.3
29°	3257.0	3235.9	3177.6	3101.4	2999.3	2885.9	2688.2	2369.0	1756.5	737.3	6.5
30°	3354.2	3310.4	3239.1	3132.2	3010.7	2879.4	2615.3	2247.5	1725.7	651.4	1.6
31°	3430.3	3406.0	3323.4	3188.9	3043.1	2861.6	2529.4	2127.6	1704.6	576.9	0.0
32°	3451.4	3433.6	3373.6	3247.2	3098.2	2847.0	2432.2	2010.9	1688.4	494.2	0.0
33°	3427.1	3415.7	3352.6	3237.5	3112.7	2827.6	2320.4	1895.8	1670.6	419.7	0.0
34°	3381.7	3367.1	3312.0	3195.4	3075.5	2743.3	2213.4	1808.3	1644.7	350.0	0.0
35°	3320.1	3308.8	3252.1	3137.0	3007.4	2612.0	2106.5	1750.0	1607.4	280.3	0.0
36°	3253.7	3250.5	3177.6	3064.1	2919.9	2485.7	1976.9	1706.3	1570.1	222.0	0.0
37°	3210.0	3193.8	3114.4	3002.6	2816.2	2338.2	1873.2	1691.7	1518.3	171.8	0.0
38°	3130.6	3133.8	3043.1	2941.0	2710.9	2210.2	1788.9	1680.3	1460.0	124.8	0.0
39°	3036.6	3038.2	2944.2	2856.7	2586.1	2075.7	1719.2	1669.0	1387.0	79.4	0.0
40°	2962.0	2960.4	2853.5	2759.5	2451.6	1949.3	1681.9	1652.8	1306.0	45.4	0.0
42.5°	2407.9	2417.6	2430.6	2469.5	2135.7	1727.3	1646.3	1562.0	1075.9	0.0	0.0
45°	1570.1	1607.4	1617.1	1733.8	1732.2	1636.6	1562.0	1400.0	795.6	0.0	0.0
47.5°	1494.0	1505.3	1526.4	1571.8	1596.1	1549.1	1396.8	1169.9	434.3	0.0	0.0
50°	1523.2	1521.5	1526.4	1526.4	1482.6	1361.1	1145.6	863.7	82.6	0.0	0.0
52.5°	1093.8	1134.3	1178.0	1197.5	1140.7	1012.7	836.1	507.2	0.0	0.0	0.0
55°	387.3	374.3	364.6	398.6	390.5	439.1	363.0	118.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	6.5	14.6	19.4	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	1.6	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2



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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	1.6	1.6	1.6	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
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°	1025.7	1025.7	1025.7	1025.7
2.5°	821.5	630.3	510.4	518.5
5°	576.9	291.7	179.9	145.8
7.5°	345.1	89.1	17.8	14.6
10°	162.0	14.6	16.2	19.4
12.5°	48.6	13.0	17.8	16.2
15°	13.0	14.6	8.1	4.9
17.5°	4.9	6.5	0.0	0.0
20°	3.2	0.0	0.0	0.0
21°	3.2	0.0	0.0	0.0
22°	1.6	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°	1.6	0.0	0.0	0.0
67.5°	1.6	0.0	0.0	0.0
70°	1.6	0.0	0.0	0.0
72.5°	1.6	0.0	0.0	0.0
75°	1.6	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0
80°	1.6	1.6	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.6	1.6	0.0	0.0
85°	1.6	1.6	0.0	0.0
87.5°	1.6	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)