

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: P1324322

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

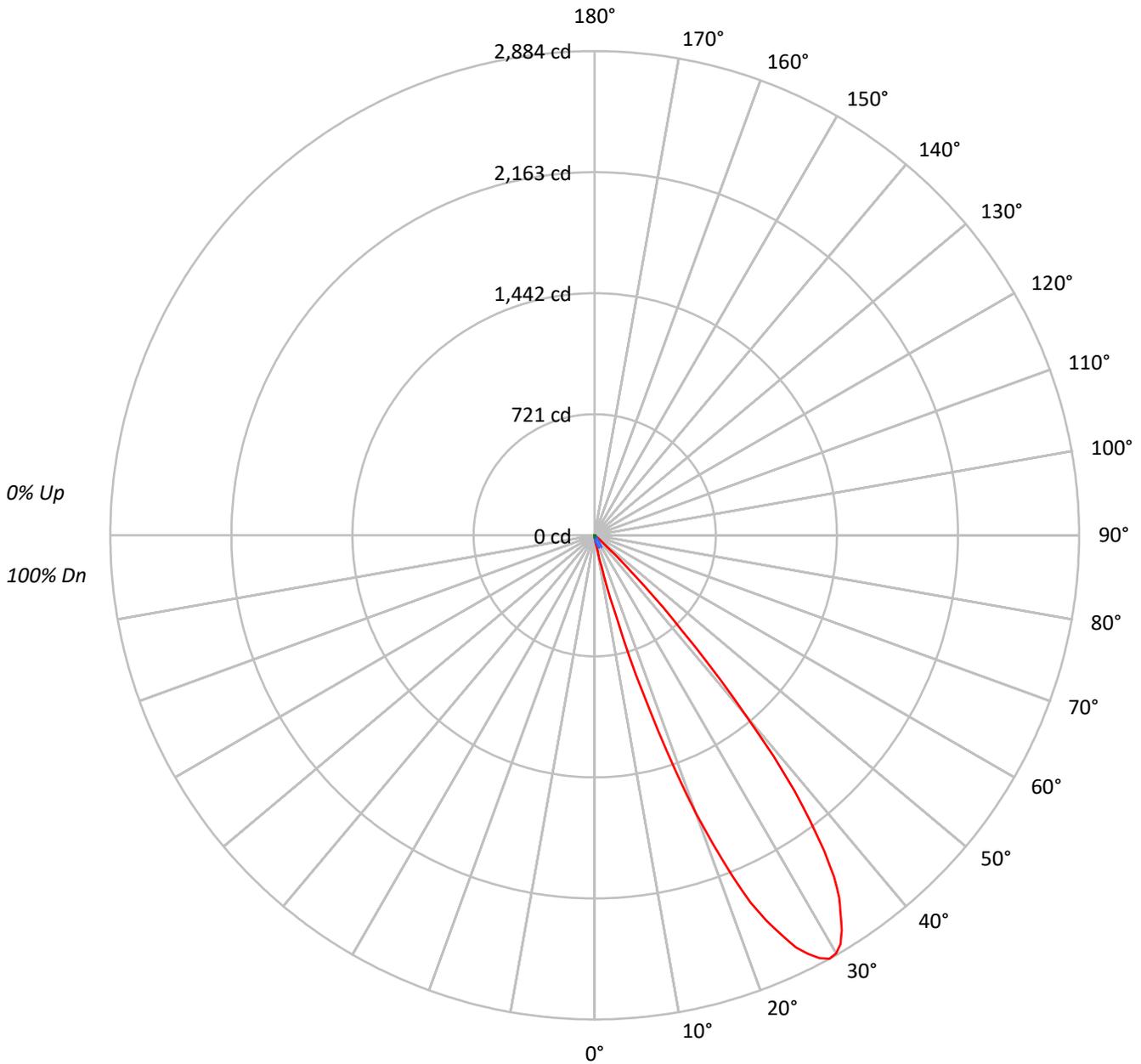
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 398.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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

TEST NUMBER: P1324322
CATALOG NUMBER: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_3000K

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	38	60	50	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°	2446	2446	2446	2446	2446
5°	5342	3769	2265	1020	761
10°	13291	6645	1591	210	0
15°	93517	9111	909	0	0
20°	323188	15304	367	0	0
25°	498155	19554	152	0	0
30°	571798	15114	0	0	0
35°	522207	5740	0	0	0
40°	313063	2675	0	0	0
45°	76940	1242	0	0	0
50°	8493	322	0	0	0
55°	1201	0	120	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	201	604	0	0
75°	0	266	799	0	0
80°	0	397	1190	0	0
85°	0	790	2371	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°
 Vertical Angle: 45°
 Luminance: 82031 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	31.1	7.8
20°-30°	157.2	39.5
30°-40°	170.1	42.7
40°-50°	35.9	9.0
50°-60°	1.1	0.3
60°-70°	0.3	0.1
70°-80°	0.4	0.1
80°-90°	0.3	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°	189.9	47.7
0°-40°	360.0	90.5
0°-60°	397.0	99.8
0°-90°	398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	22	13	6	4	4
15°	524	51	5	0	0	219
25°	2622	103	1	0	0	1185
35°	2484	27	0	0	0	1465
45°	316	5	0	0	0	347
55°	4	0	0	0	0	7
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	19.4	19.0	19.4	19.0	19.4	19.4	19.4	19.0	19.0	19.0	19.0
5°	30.9	30.9	30.5	30.9	30.9	30.9	30.9	30.5	30.5	30.1	30.1
7.5°	48.7	48.7	48.3	48.3	48.7	49.1	47.5	48.3	48.3	48.3	47.9
10°	76.0	77.6	76.0	78.0	76.4	75.2	77.2	75.2	75.2	74.8	73.6
12.5°	191.6	187.2	184.5	177.7	184.5	179.3	180.5	179.3	175.4	170.2	167.0
15°	524.5	524.5	509.0	529.6	514.6	520.1	491.6	492.0	477.4	461.5	452.8
17.5°	1096.4	1106.3	1096.0	1089.7	1076.2	1056.9	1048.9	1028.7	1002.2	971.4	967.8
20°	1763.4	1721.8	1741.2	1723.4	1712.3	1688.6	1662.1	1645.4	1622.1	1582.9	1525.1
21°	1973.2	1971.6	1971.2	1970.8	1954.6	1915.8	1891.6	1858.4	1825.5	1785.2	1736.9
22°	2184.6	2192.1	2195.2	2172.3	2139.0	2121.6	2105.0	2059.5	2007.6	1986.6	1929.3
23°	2378.5	2371.4	2350.8	2340.1	2314.4	2309.2	2259.8	2230.9	2180.2	2157.2	2089.2
24°	2510.7	2507.2	2497.7	2481.8	2461.2	2429.6	2399.9	2354.4	2312.8	2275.2	2211.9
25°	2621.5	2624.7	2607.3	2596.6	2574.4	2538.8	2502.4	2452.5	2413.7	2369.8	2296.6
26°	2731.2	2709.0	2695.2	2679.3	2655.2	2614.4	2579.2	2534.5	2487.4	2438.3	2366.6
27°	2798.9	2779.1	2758.1	2742.7	2715.0	2676.2	2638.6	2589.1	2536.4	2487.0	2413.3
28°	2852.3	2830.5	2810.0	2791.4	2759.7	2718.1	2673.0	2622.7	2568.1	2517.1	2441.8
29°	2884.0	2858.3	2836.1	2815.1	2786.2	2741.1	2695.6	2641.7	2589.1	2535.7	2458.9
30°	2875.3	2853.1	2831.7	2810.4	2781.1	2738.7	2693.6	2642.1	2589.1	2536.4	2458.5
31°	2841.2	2813.9	2798.5	2777.1	2751.8	2708.6	2669.8	2613.6	2565.7	2508.7	2430.8
32°	2775.9	2758.5	2737.9	2721.3	2696.8	2650.8	2612.8	2566.9	2510.3	2463.6	2381.7
33°	2687.3	2671.0	2660.7	2641.3	2617.6	2585.9	2540.4	2498.4	2434.7	2386.8	2304.9
34°	2602.5	2582.0	2556.2	2550.7	2530.1	2489.3	2448.2	2405.4	2348.4	2287.5	2204.7
35°	2483.8	2462.4	2438.7	2440.7	2416.1	2368.6	2326.7	2278.8	2224.5	2152.9	2074.5
36°	2325.1	2310.8	2307.3	2297.8	2269.7	2213.1	2173.1	2112.9	2067.4	1979.9	1912.6
37°	2131.5	2136.7	2110.9	2098.7	2065.8	2026.2	2003.7	1926.5	1873.4	1807.7	1716.7
38°	1936.0	1928.5	1898.0	1905.5	1860.4	1819.2	1755.5	1709.6	1650.2	1589.2	1516.4
39°	1691.8	1673.2	1636.7	1638.3	1604.3	1558.0	1496.2	1442.0	1406.4	1347.8	1278.1
40°	1392.5	1384.6	1371.9	1351.0	1306.2	1286.0	1231.0	1172.4	1142.4	1061.2	1027.2
42.5°	772.7	762.0	740.6	733.1	709.3	685.6	653.5	614.3	595.3	571.2	517.3
45°	315.9	336.8	331.7	325.8	307.6	308.7	285.8	288.6	267.6	253.3	243.4
47.5°	69.7	75.6	76.0	73.2	76.0	73.6	72.4	70.5	70.9	72.0	69.3
50°	31.7	31.3	32.1	31.7	31.3	30.9	30.5	29.3	30.1	29.3	28.5
52.5°	12.3	12.7	12.7	11.9	12.3	12.3	12.3	11.9	11.9	11.9	11.9
55°	4.0	4.0	4.0	3.6	3.6	4.0	4.0	4.0	4.0	4.0	3.6
57.5°	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	18.2	16.6	15.4	14.2	11.9	9.9	9.1	9.1
5°	28.1	21.8	16.2	13.1	9.1	5.9	4.7	4.4
7.5°	42.4	29.3	17.0	11.1	5.9	3.2	2.0	1.6
10°	61.4	38.0	17.8	9.1	3.6	1.2	0.0	0.0
12.5°	107.3	45.5	17.8	7.1	1.6	0.0	0.0	0.0
15°	245.8	51.1	17.0	5.1	0.4	0.0	0.0	0.0
17.5°	510.6	64.1	15.0	3.6	0.0	0.0	0.0	0.0
20°	815.4	83.5	11.9	2.0	0.0	0.0	0.0	0.0
21°	940.9	90.2	10.7	1.6	0.0	0.0	0.0	0.0
22°	1031.1	96.6	9.5	1.2	0.0	0.0	0.0	0.0
23°	1130.5	100.5	8.3	0.8	0.0	0.0	0.0	0.0
24°	1203.7	102.9	7.1	0.8	0.0	0.0	0.0	0.0
25°	1249.2	102.9	6.3	0.8	0.0	0.0	0.0	0.0
26°	1276.1	100.5	5.5	0.4	0.0	0.0	0.0	0.0
27°	1282.5	96.6	4.7	0.4	0.0	0.0	0.0	0.0
28°	1274.6	91.4	4.0	0.0	0.0	0.0	0.0	0.0
29°	1249.6	83.9	3.6	0.0	0.0	0.0	0.0	0.0
30°	1222.7	76.0	2.8	0.0	0.0	0.0	0.0	0.0
31°	1176.8	65.3	2.4	0.0	0.0	0.0	0.0	0.0
32°	1123.7	54.2	2.0	0.0	0.0	0.0	0.0	0.0
33°	1052.9	42.7	1.6	0.0	0.0	0.0	0.0	0.0
34°	948.4	33.6	1.6	0.0	0.0	0.0	0.0	0.0
35°	854.6	27.3	1.2	0.0	0.0	0.0	0.0	0.0
36°	731.9	21.8	1.2	0.0	0.0	0.0	0.0	0.0
37°	627.0	18.2	1.2	0.0	0.0	0.0	0.0	0.0
38°	524.9	15.4	0.8	0.0	0.0	0.0	0.0	0.0
39°	425.9	13.5	0.8	0.0	0.0	0.0	0.0	0.0
40°	339.6	11.9	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	183.3	7.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	101.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	44.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	15.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.8	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.8	0.8	0.4	0.0	0.0	0.0
67.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)