

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: P1324408

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQCA30R 1MW_6500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R20W2N902765DE010 3LSQCA30R 1MW_6500K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 6500K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

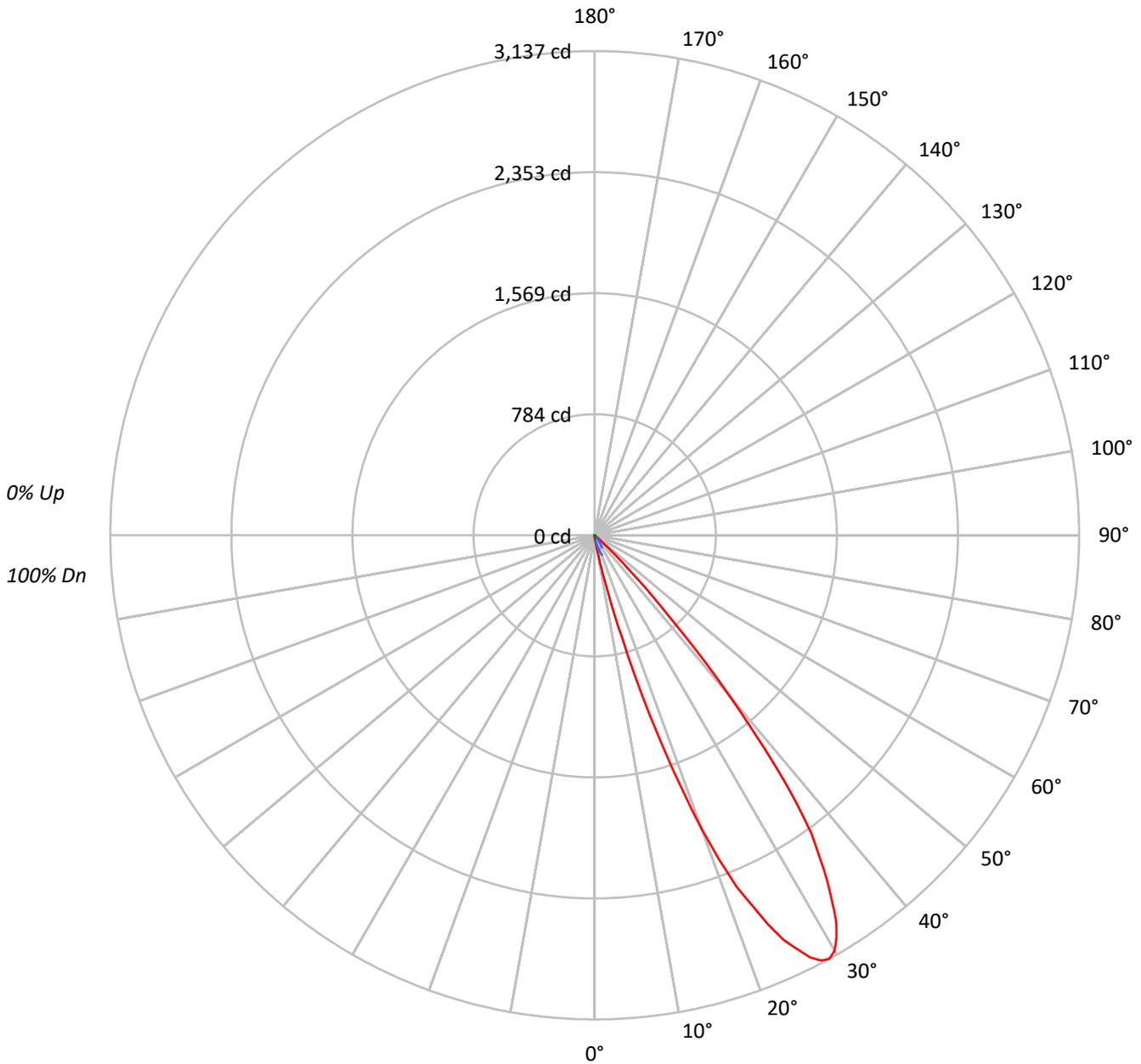
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 440.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
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

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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			
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2618	2618	2618	2618	2618
5°	5999	4478	2489	1521	1314
10°	18922	7817	2029	839	630
15°	122562	14442	1498	285	71
20°	369905	24724	1026	0	0
25°	549348	24951	608	0	0
30°	617776	18972	239	0	0
35°	533013	11332	168	0	0
40°	306925	3867	0	0	0
45°	74870	1559	97	0	97
50°	8976	429	107	107	322
55°	1201	0	240	240	480
60°	138	0	413	413	689
65°	163	163	652	652	978
70°	201	201	806	806	1007
75°	0	266	1065	799	1065
80°	0	397	1190	793	1190
85°	0	790	2371	790	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 75357 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	40.8	9.3
20°-30°	177.7	40.4
30°-40°	179.0	40.7
40°-50°	35.9	8.2
50°-60°	1.8	0.4
60°-70°	1.2	0.3
70°-80°	1.1	0.2
80°-90°	0.5	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°	220.5	50.1
0°-40°	399.5	90.8
0°-60°	437.2	99.4
0°-90°	440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	440.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	35	26	14	9	8	5
15°	687	81	8	2	0	269
25°	2891	131	3	0	0	1303
35°	2535	54	1	0	0	1508
45°	307	6	0	0	0	335
55°	4	0	1	1	2	7
65°	0	0	2	2	2	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	22.8	22.8	22.4	22.4	22.0	22.4	21.6	22.0	22.0	21.6	19.6
5°	34.7	35.5	35.1	35.1	34.7	35.1	34.3	33.5	32.7	32.7	25.9
7.5°	57.1	56.7	55.9	56.3	55.1	54.3	53.5	53.1	50.7	49.5	33.9
10°	108.2	110.6	108.6	108.2	101.0	100.6	95.8	89.0	83.0	79.8	44.7
12.5°	297.8	310.6	290.6	281.0	275.4	253.9	244.7	221.1	198.4	181.2	56.7
15°	687.4	718.9	678.6	681.4	647.9	586.4	532.5	486.2	431.5	376.4	81.0
17.5°	1346.8	1321.3	1299.3	1262.2	1194.0	1103.7	987.6	869.8	768.0	661.4	113.0
20°	2018.3	1995.5	1945.6	1864.6	1777.6	1643.8	1505.7	1328.9	1157.6	997.2	134.9
21°	2249.4	2241.8	2160.0	2110.1	1976.0	1848.2	1688.9	1499.7	1306.9	1116.9	138.5
22°	2455.8	2410.3	2366.4	2292.5	2159.2	2020.3	1843.0	1643.8	1434.7	1223.5	138.9
23°	2598.7	2577.9	2536.4	2453.0	2320.5	2157.2	1970.4	1762.0	1541.6	1298.9	137.7
24°	2756.8	2730.4	2669.7	2572.3	2438.6	2277.3	2064.2	1857.4	1617.9	1362.4	134.5
25°	2890.9	2849.8	2777.9	2672.9	2526.8	2360.4	2146.0	1918.9	1671.0	1405.1	131.3
26°	2977.9	2955.6	2863.3	2749.2	2592.7	2421.1	2202.3	1966.0	1705.3	1424.7	126.1
27°	3068.5	3027.4	2936.8	2805.5	2635.8	2460.6	2234.2	1988.7	1717.3	1425.5	119.8
28°	3120.4	3075.7	2973.1	2835.0	2663.8	2482.5	2252.6	1995.9	1714.9	1413.1	112.2
29°	3136.8	3080.5	2980.3	2839.8	2670.5	2484.1	2249.8	1985.5	1693.7	1382.8	103.4
30°	3106.5	3049.0	2954.0	2817.0	2649.0	2464.2	2223.9	1951.2	1656.2	1339.3	95.4
31°	3040.2	2991.5	2899.7	2762.4	2601.1	2417.5	2165.2	1894.9	1592.3	1281.0	86.2
32°	2952.8	2904.9	2814.6	2690.5	2526.4	2341.2	2084.9	1807.1	1517.3	1194.0	77.0
33°	2821.4	2793.9	2712.9	2594.3	2430.2	2232.2	1977.2	1702.1	1410.3	1097.4	69.1
34°	2688.5	2653.8	2597.1	2467.4	2290.9	2093.3	1836.6	1557.2	1279.8	989.2	61.5
35°	2535.2	2514.5	2425.4	2321.7	2144.4	1942.4	1687.4	1416.3	1127.7	868.6	53.9
36°	2386.7	2354.8	2253.4	2143.6	1971.6	1753.2	1501.3	1246.7	996.4	755.7	45.9
37°	2171.2	2122.5	2050.2	1934.4	1733.3	1547.2	1317.3	1081.0	834.7	633.5	37.1
38°	1917.7	1894.9	1794.7	1678.2	1511.7	1335.3	1107.7	907.3	688.6	528.9	28.3
39°	1618.7	1618.3	1522.5	1438.3	1275.4	1116.5	911.3	736.5	568.4	425.9	22.0
40°	1365.2	1318.1	1259.0	1153.2	1028.3	893.4	713.7	576.4	441.1	343.3	17.2
42.5°	715.7	711.7	677.0	597.6	527.7	448.3	356.5	297.0	232.3	189.2	10.8
45°	307.4	309.4	285.4	273.4	246.3	213.2	180.0	150.1	128.5	104.2	6.4
47.5°	77.8	74.6	73.8	76.6	76.6	74.2	66.7	62.7	57.9	53.1	3.6
50°	33.5	32.7	31.9	31.9	29.9	28.7	26.7	24.4	22.4	20.0	1.6
52.5°	12.4	12.8	13.2	12.8	12.8	12.4	12.4	12.0	10.8	9.6	0.8
55°	4.0	4.0	4.0	4.4	4.4	4.8	4.8	4.8	4.8	4.4	0.0
57.5°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	17.6	15.6	13.2	11.2	10.8	10.4
5°	19.6	14.4	10.8	8.8	8.0	7.6
7.5°	21.2	13.2	8.8	6.4	5.6	5.2
10°	22.0	11.6	7.2	4.8	3.6	3.6
12.5°	22.4	10.0	5.2	3.2	2.0	2.0
15°	22.0	8.4	4.0	1.6	0.4	0.4
17.5°	20.0	6.8	2.4	0.4	0.0	0.0
20°	17.2	5.6	1.6	0.0	0.0	0.0
21°	16.4	4.8	1.2	0.0	0.0	0.0
22°	15.2	4.4	0.8	0.0	0.0	0.0
23°	14.0	4.0	0.8	0.0	0.0	0.0
24°	12.8	3.6	0.4	0.0	0.0	0.0
25°	12.0	3.2	0.4	0.0	0.0	0.0
26°	11.2	2.8	0.4	0.0	0.0	0.0
27°	10.0	2.4	0.0	0.0	0.0	0.0
28°	9.2	2.0	0.0	0.0	0.0	0.0
29°	8.0	1.6	0.0	0.0	0.0	0.0
30°	6.8	1.2	0.0	0.0	0.0	0.0
31°	5.6	1.2	0.0	0.0	0.0	0.0
32°	4.8	0.8	0.0	0.0	0.0	0.0
33°	4.0	0.8	0.0	0.0	0.0	0.0
34°	3.6	0.8	0.0	0.0	0.0	0.0
35°	3.2	0.8	0.0	0.0	0.0	0.0
36°	2.4	0.4	0.0	0.0	0.0	0.0
37°	2.0	0.4	0.0	0.0	0.0	0.0
38°	1.6	0.4	0.0	0.0	0.0	0.0
39°	1.2	0.0	0.0	0.0	0.0	0.0
40°	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.4	1.2	1.2
55°	0.4	0.8	0.4	0.8	1.6	1.6
57.5°	0.4	0.8	0.8	1.2	1.6	2.0
60°	0.8	1.2	1.2	1.2	2.0	2.0
62.5°	0.8	1.2	1.6	1.6	2.0	2.4
65°	0.8	1.6	1.6	1.6	2.0	2.4
67.5°	1.2	1.6	1.6	1.6	2.0	2.4
70°	1.2	1.6	1.6	1.6	2.0	2.0
72.5°	1.2	1.6	1.2	1.6	1.6	2.0
75°	1.2	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)