

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: P1324328

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

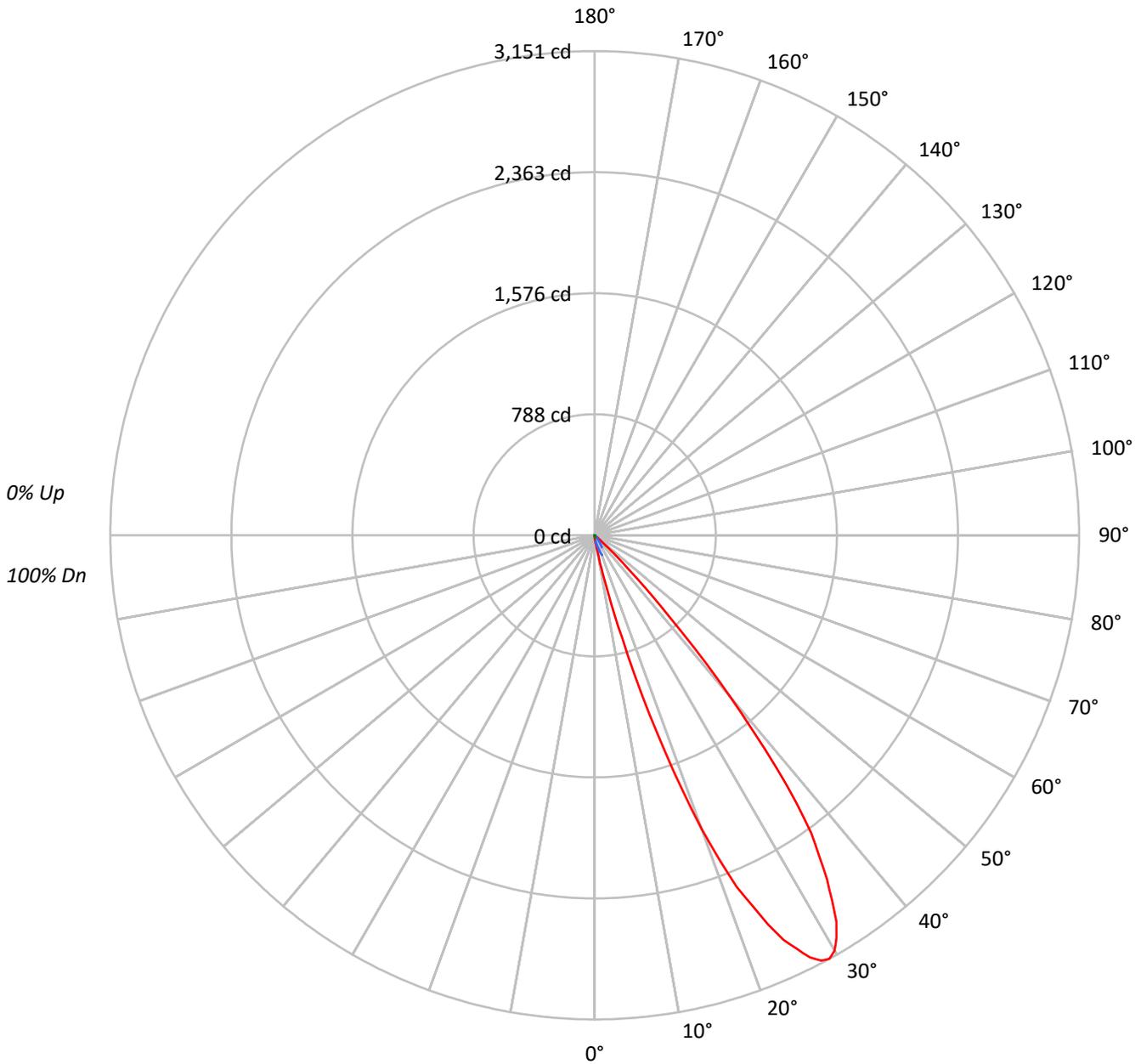
Test Method: LM-79-2019  
Report Number: P1324328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 442.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 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	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	99	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	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

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

	0°	45°	90°	135°	180°
0°	2618	2618	2618	2618	2618
5°	6034	4512	2489	1521	1314
10°	19009	7852	2029	839	630
15°	123115	14513	1498	285	71
20°	371573	24834	1026	0	0
25°	551837	25065	608	0	0
30°	620580	19051	239	0	0
35°	535431	11374	168	0	0
40°	308319	3867	0	0	0
45°	75211	1559	97	0	97
50°	9029	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: 75698 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	41.0	9.3
20°-30°	178.5	40.4
30°-40°	179.8	40.7
40°-50°	36.1	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°	221.5	50.1
0°-40°	401.3	90.8
0°-60°	439.2	99.4
0°-90°	442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	442.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	35	26	14	9	8	5
15°	690	81	8	2	0	270
25°	2904	132	3	0	0	1309
35°	2547	54	1	0	0	1515
45°	309	6	0	0	0	336
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°	22.9	22.9	22.5	22.5	22.1	22.5	21.7	22.1	22.1	21.7	19.6
5°	34.9	35.7	35.3	35.3	34.9	35.3	34.5	33.7	32.9	32.9	26.1
7.5°	57.3	56.9	56.1	56.5	55.3	54.5	53.7	53.3	50.9	49.7	34.1
10°	108.7	111.1	109.1	108.7	101.5	101.1	96.2	89.4	83.4	80.2	44.9
12.5°	299.1	312.0	291.9	282.3	276.7	255.0	245.8	222.2	199.3	182.1	56.9
15°	690.5	722.2	681.7	684.5	650.8	589.1	534.9	488.4	433.5	378.1	81.4
17.5°	1353.0	1327.3	1305.3	1268.0	1199.4	1108.8	992.1	873.8	771.5	664.5	113.5
20°	2027.4	2004.6	1954.5	1873.1	1785.6	1651.3	1512.6	1334.9	1162.9	1001.7	135.5
21°	2259.6	2252.0	2169.8	2119.7	1984.9	1856.6	1696.6	1506.6	1312.9	1122.0	139.1
22°	2466.9	2421.2	2377.1	2302.9	2169.0	2029.5	1851.4	1651.3	1441.2	1229.1	139.5
23°	2610.5	2589.6	2547.9	2464.1	2331.0	2167.0	1979.3	1770.0	1548.7	1304.8	138.3
24°	2769.3	2742.8	2681.9	2584.0	2449.7	2287.7	2073.6	1865.8	1625.2	1368.6	135.1
25°	2904.0	2862.7	2790.6	2685.1	2538.3	2371.1	2155.8	1927.6	1678.6	1411.5	131.9
26°	2991.5	2969.0	2876.4	2761.7	2604.5	2432.1	2212.3	1974.9	1713.1	1431.2	126.7
27°	3082.5	3041.2	2950.1	2818.2	2647.8	2471.8	2244.4	1997.8	1725.1	1432.0	120.3
28°	3134.6	3089.7	2986.6	2847.9	2675.9	2493.8	2262.8	2005.0	1722.7	1419.5	112.7
29°	3151.0	3094.5	2993.9	2852.7	2682.7	2495.4	2260.0	1994.6	1701.4	1389.1	103.9
30°	3120.6	3062.8	2967.4	2829.8	2661.0	2475.4	2234.0	1960.1	1663.7	1345.4	95.8
31°	3054.0	3005.1	2912.9	2774.9	2612.9	2428.4	2175.0	1903.5	1599.6	1286.8	86.6
32°	2966.2	2918.1	2827.4	2702.7	2537.9	2351.9	2094.4	1815.3	1524.2	1199.4	77.4
33°	2834.3	2806.6	2725.2	2606.1	2441.3	2242.4	1986.1	1709.9	1416.7	1102.3	69.4
34°	2700.7	2665.8	2608.9	2478.6	2301.3	2102.8	1845.0	1564.3	1285.6	993.7	61.8
35°	2546.7	2525.9	2436.5	2332.2	2154.2	1951.3	1695.0	1422.7	1132.8	872.6	54.1
36°	2397.6	2365.5	2263.6	2153.4	1980.5	1761.2	1508.2	1252.3	1000.9	759.1	46.1
37°	2181.0	2132.1	2059.5	1943.2	1741.1	1554.3	1323.3	1085.9	838.5	636.4	37.3
38°	1926.4	1903.5	1802.9	1685.8	1518.6	1341.3	1112.8	911.5	691.7	531.3	28.5
39°	1626.0	1625.6	1529.4	1444.8	1281.2	1121.6	915.5	739.8	571.0	427.9	22.1
40°	1371.4	1324.1	1264.8	1158.5	1033.0	897.4	717.0	579.0	443.1	344.9	17.2
42.5°	719.0	715.0	680.1	600.3	530.1	450.3	358.1	298.3	233.4	190.1	10.8
45°	308.8	310.8	286.7	274.7	247.4	214.1	180.9	150.8	129.1	104.7	6.4
47.5°	78.2	75.0	74.2	77.0	77.0	74.6	67.0	63.0	58.1	53.3	3.6
50°	33.7	32.9	32.1	32.1	30.1	28.9	26.9	24.5	22.5	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°	21.3	13.2	8.8	6.4	5.6	5.2
10°	22.1	11.6	7.2	4.8	3.6	3.6
12.5°	22.5	10.0	5.2	3.2	2.0	2.0
15°	22.1	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)