

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: P1324327

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MW\_3000K

Issue Date: 1/29/2026

**Test Information**

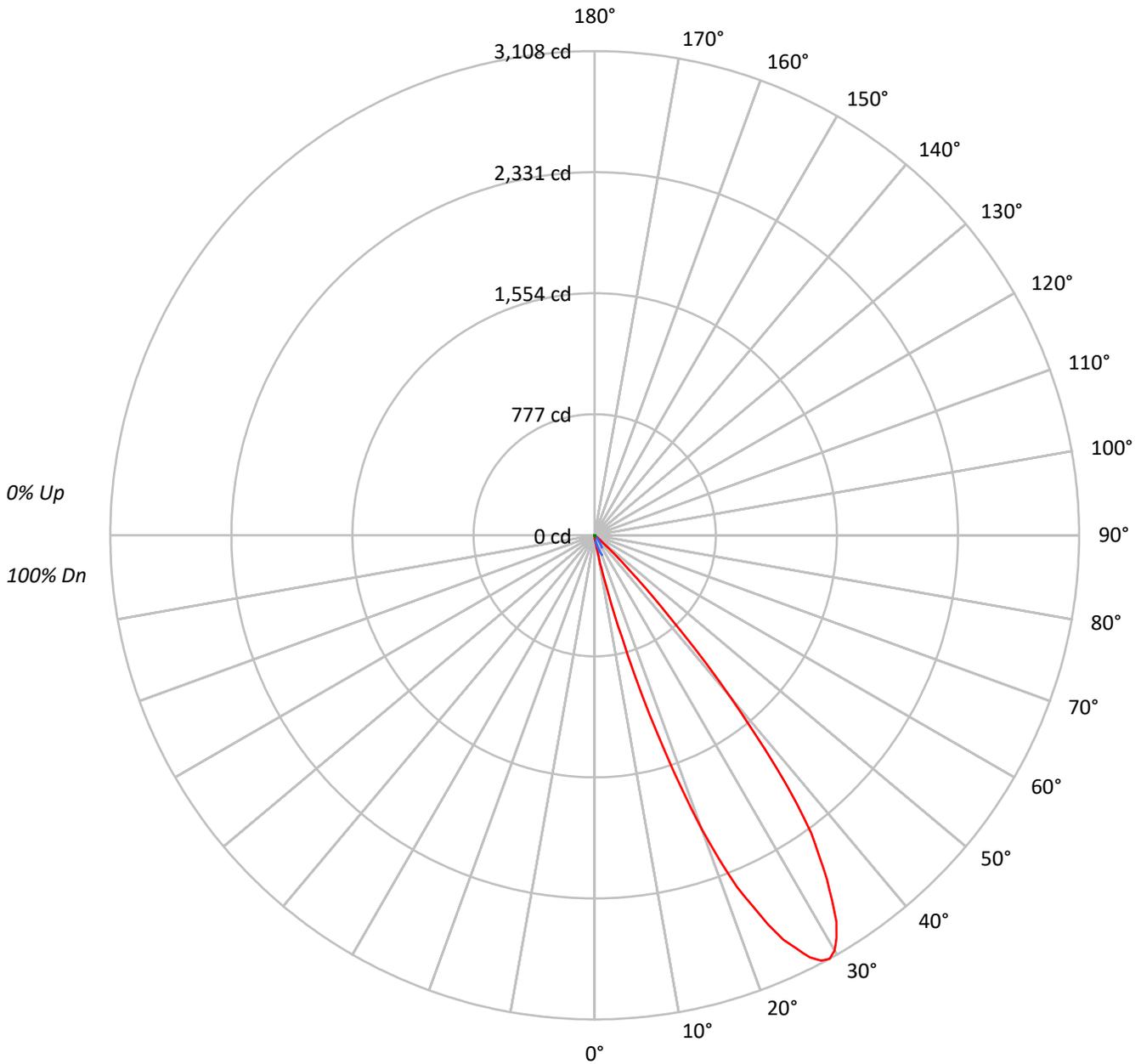
Test Method: LM-79-2019  
Report Number: P1324327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MW\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 436.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	45°	90°	135°	180°
0°	2583	2583	2583	2583	2583
5°	5947	4443	2455	1504	1297
10°	18747	7747	2011	822	630
15°	121439	14317	1480	285	71
20°	366533	24504	1008	0	0
25°	544350	24722	608	0	0
30°	612148	18793	239	0	0
35°	528178	11227	168	0	0
40°	304137	3822	0	0	0
45°	74188	1534	97	0	97
50°	8895	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: 74675 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	40.4	9.3
20°-30°	176.1	40.4
30°-40°	177.4	40.7
40°-50°	35.6	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°	218.5	50.1
0°-40°	395.9	90.8
0°-60°	433.3	99.4
0°-90°	436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	34	26	14	9	8	5
15°	681	80	8	2	0	267
25°	2865	130	3	0	0	1292
35°	2512	53	1	0	0	1495
45°	305	6	0	0	0	332
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°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	22.5	22.5	22.2	22.2	21.8	22.2	21.4	21.8	21.8	21.4	19.4
5°	34.4	35.2	34.8	34.8	34.4	34.8	34.0	33.2	32.4	32.4	25.7
7.5°	56.6	56.2	55.4	55.8	54.6	53.8	53.0	52.6	50.2	49.0	33.6
10°	107.2	109.6	107.6	107.2	100.1	99.7	94.9	88.2	82.3	79.1	44.3
12.5°	295.1	307.7	288.0	278.5	272.9	251.6	242.5	219.1	196.6	179.6	56.2
15°	681.1	712.4	672.4	675.2	642.0	581.1	527.7	481.8	427.6	373.0	80.3
17.5°	1334.6	1309.3	1287.5	1250.7	1183.1	1093.7	978.6	861.9	761.0	655.4	111.9
20°	1999.9	1977.4	1927.9	1847.6	1761.4	1628.9	1492.0	1316.8	1147.1	988.1	133.7
21°	2229.0	2221.4	2140.3	2090.9	1958.0	1831.4	1673.6	1486.1	1295.0	1106.8	137.3
22°	2433.5	2388.4	2344.9	2271.7	2139.6	2001.9	1826.3	1628.9	1421.6	1212.4	137.7
23°	2575.1	2554.5	2513.4	2430.7	2299.4	2137.6	1952.5	1746.0	1527.6	1287.1	136.5
24°	2731.7	2705.6	2645.5	2549.0	2416.4	2256.6	2045.4	1840.5	1603.2	1350.0	133.3
25°	2864.6	2823.9	2752.7	2648.6	2503.9	2338.9	2126.5	1901.4	1655.8	1392.4	130.1
26°	2950.8	2928.7	2837.3	2724.2	2569.1	2399.0	2182.3	1948.1	1689.8	1411.7	125.0
27°	3040.6	2999.9	2910.1	2780.0	2611.9	2438.2	2213.9	1970.7	1701.7	1412.5	118.7
28°	3092.1	3047.8	2946.1	2809.2	2639.5	2460.0	2232.1	1977.8	1699.3	1400.3	111.2
29°	3108.3	3052.5	2953.2	2814.0	2646.3	2461.5	2229.3	1967.5	1678.3	1370.2	102.4
30°	3078.2	3021.3	2927.1	2791.4	2624.9	2441.8	2203.6	1933.5	1641.2	1327.1	94.5
31°	3012.5	2964.3	2873.3	2737.2	2577.4	2395.5	2145.5	1877.7	1577.9	1269.3	85.4
32°	2925.9	2878.5	2789.1	2666.0	2503.5	2319.9	2066.0	1790.7	1503.5	1183.1	76.3
33°	2795.8	2768.5	2688.2	2570.7	2408.1	2211.9	1959.2	1686.6	1397.5	1087.4	68.4
34°	2664.1	2629.7	2573.5	2444.9	2270.1	2074.3	1820.0	1543.1	1268.2	980.2	60.9
35°	2512.2	2491.6	2403.4	2300.5	2124.9	1924.8	1672.0	1403.4	1117.4	860.7	53.4
36°	2365.0	2333.4	2232.9	2124.1	1953.6	1737.3	1487.7	1235.3	987.3	748.8	45.5
37°	2151.4	2103.2	2031.6	1916.9	1717.5	1533.2	1305.3	1071.2	827.1	627.7	36.8
38°	1900.2	1877.7	1778.4	1662.9	1498.0	1323.1	1097.7	899.1	682.3	524.1	28.1
39°	1604.0	1603.6	1508.6	1425.2	1263.8	1106.4	903.1	729.8	563.3	422.1	21.8
40°	1352.8	1306.1	1247.6	1142.8	1019.0	885.3	707.3	571.2	437.1	340.2	17.0
42.5°	709.2	705.3	670.9	592.1	522.9	444.2	353.2	294.3	230.2	187.5	10.7
45°	304.6	306.6	282.8	271.0	244.1	211.2	178.4	148.7	127.4	103.2	6.3
47.5°	77.1	74.0	73.2	75.9	75.9	73.6	66.1	62.1	57.4	52.6	3.6
50°	33.2	32.4	31.6	31.6	29.7	28.5	26.5	24.1	22.2	19.8	1.6
52.5°	12.3	12.7	13.1	12.7	12.7	12.3	12.3	11.9	10.7	9.5	0.8
55°	4.0	4.0	4.0	4.4	4.4	4.7	4.7	4.7	4.7	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°	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	17.4	15.4	13.1	11.1	10.7	10.3
5°	19.4	14.2	10.7	8.7	7.9	7.5
7.5°	21.0	13.1	8.7	6.3	5.5	5.1
10°	21.8	11.5	7.1	4.7	3.6	3.6
12.5°	22.2	9.9	5.1	3.2	2.0	2.0
15°	21.8	8.3	4.0	1.6	0.4	0.4
17.5°	19.8	6.7	2.4	0.4	0.0	0.0
20°	17.0	5.5	1.6	0.0	0.0	0.0
21°	16.2	4.7	1.2	0.0	0.0	0.0
22°	15.0	4.4	0.8	0.0	0.0	0.0
23°	13.8	4.0	0.8	0.0	0.0	0.0
24°	12.7	3.6	0.4	0.0	0.0	0.0
25°	11.9	3.2	0.4	0.0	0.0	0.0
26°	11.1	2.8	0.4	0.0	0.0	0.0
27°	9.9	2.4	0.0	0.0	0.0	0.0
28°	9.1	2.0	0.0	0.0	0.0	0.0
29°	7.9	1.6	0.0	0.0	0.0	0.0
30°	6.7	1.2	0.0	0.0	0.0	0.0
31°	5.5	1.2	0.0	0.0	0.0	0.0
32°	4.7	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)