

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: P1324403

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQCA30R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

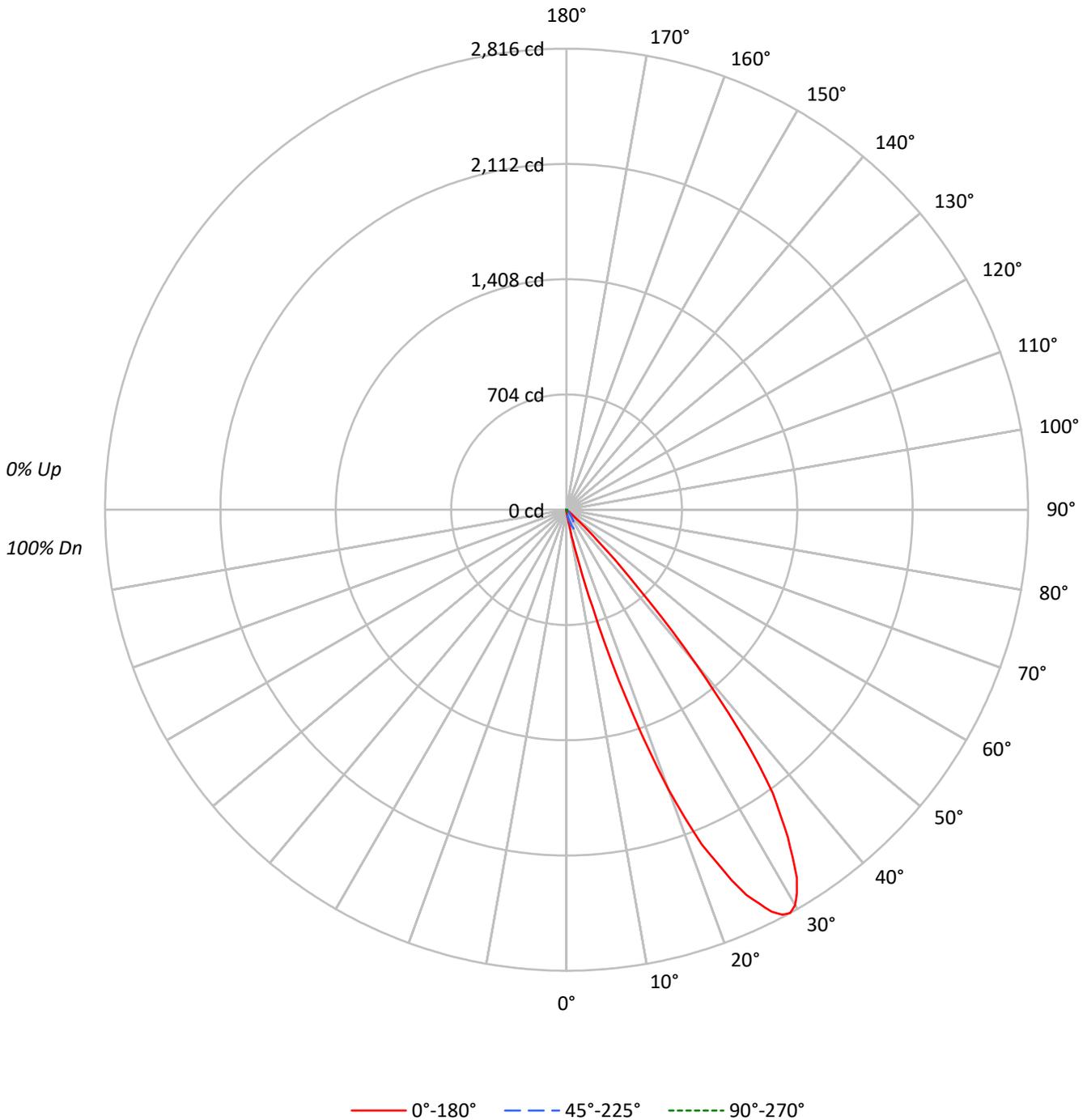
Test Method: LM-79-2019  
Report Number: P1324403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R20W2N902765DE010 3LSQCA30R 1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 395.0 lumens  
Efficiency: N/A  
Efficacy: 67.0 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





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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		
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°	2342	2342	2342	2342	2342
5°	5394	4028	2230	1366	1176
10°	16981	7013	1819	752	560
15°	110028	12962	1337	250	71
20°	332077	22195	916	0	0
25°	493157	22404	551	0	0
30°	554576	17023	219	0	0
35°	478497	10176	147	0	0
40°	275540	3462	0	0	0
45°	67198	1388	97	0	97
50°	8065	375	107	107	295
55°	1081	0	210	210	420
60°	138	0	379	379	620
65°	163	163	571	571	897
70°	201	201	705	705	906
75°	0	266	932	732	932
80°	0	397	1091	694	1091
85°	0	790	2174	790	790

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 67636 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	36.6	9.3
20°-30°	159.6	40.4
30°-40°	160.7	40.7
40°-50°	32.2	8.2
50°-60°	1.6	0.4
60°-70°	1.1	0.3
70°-80°	1.0	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°	198.0	50.1
0°-40°	358.7	90.8
0°-60°	392.5	99.4
0°-90°	395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	395.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	23	13	8	7	5
15°	617	73	8	1	0	242
25°	2595	118	3	0	0	1170
35°	2276	48	1	0	0	1354
45°	276	6	0	0	0	300
55°	4	0	1	1	1	7
65°	0	0	1	1	2	0
75°	0	0	1	1	1	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°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	20.4	20.4	20.1	20.1	19.7	20.1	19.4	19.7	19.7	19.4	17.6
5°	31.2	31.9	31.5	31.5	31.2	31.5	30.8	30.1	29.4	29.4	23.3
7.5°	51.2	50.9	50.2	50.5	49.5	48.7	48.0	47.7	45.5	44.4	30.5
10°	97.1	99.3	97.5	97.1	90.7	90.3	86.0	79.9	74.5	71.7	40.1
12.5°	267.3	278.8	260.9	252.3	247.3	227.9	219.7	198.5	178.1	162.7	50.9
15°	617.1	645.4	609.2	611.7	581.6	526.4	478.1	436.5	387.4	337.9	72.7
17.5°	1209.1	1186.2	1166.5	1133.1	1071.9	990.9	886.6	780.9	689.5	593.8	101.4
20°	1811.9	1791.4	1746.6	1673.9	1595.8	1475.7	1351.7	1193.0	1039.2	895.2	121.1
21°	2019.4	2012.5	1939.1	1894.3	1773.9	1659.2	1516.2	1346.4	1173.3	1002.7	124.4
22°	2204.6	2163.8	2124.3	2058.1	1938.4	1813.7	1654.5	1475.7	1287.9	1098.4	124.7
23°	2332.9	2314.3	2277.0	2202.1	2083.1	1936.6	1768.9	1581.8	1384.0	1166.1	123.6
24°	2474.8	2451.2	2396.7	2309.3	2189.2	2044.4	1853.1	1667.4	1452.4	1223.1	120.8
25°	2595.2	2558.3	2493.8	2399.6	2268.4	2119.0	1926.5	1722.6	1500.1	1261.4	117.9
26°	2673.4	2653.3	2570.5	2468.0	2327.5	2173.4	1977.1	1764.9	1530.9	1279.0	113.2
27°	2754.7	2717.8	2636.4	2518.5	2366.2	2208.9	2005.7	1785.3	1541.7	1279.7	107.5
28°	2801.3	2761.2	2669.1	2545.1	2391.3	2228.6	2022.2	1791.8	1539.5	1268.6	100.7
29°	2816.0	2765.5	2675.5	2549.4	2397.4	2230.1	2019.7	1782.5	1520.5	1241.4	92.8
30°	2788.7	2737.1	2651.9	2528.9	2378.1	2212.1	1996.4	1751.7	1486.8	1202.3	85.6
31°	2729.3	2685.5	2603.1	2479.8	2335.1	2170.2	1943.7	1701.1	1429.5	1150.0	77.4
32°	2650.8	2607.8	2526.8	2415.3	2268.1	2101.8	1871.7	1622.3	1362.1	1071.9	69.2
33°	2532.9	2508.2	2435.4	2329.0	2181.7	2003.9	1775.0	1528.0	1266.1	985.1	62.0
34°	2413.5	2382.4	2331.5	2215.0	2056.6	1879.2	1648.8	1398.0	1148.9	888.0	55.2
35°	2275.9	2257.3	2177.4	2084.2	1925.1	1743.8	1514.8	1271.5	1012.4	779.8	48.4
36°	2142.6	2114.0	2022.9	1924.4	1769.9	1573.9	1347.8	1119.2	894.5	678.4	41.2
37°	1949.1	1905.4	1840.5	1736.6	1556.0	1389.0	1182.6	970.4	749.3	568.7	33.3
38°	1721.6	1701.1	1611.2	1506.5	1357.1	1198.7	994.4	814.5	618.2	474.8	25.4
39°	1453.1	1452.8	1366.8	1291.2	1145.0	1002.3	818.1	661.2	510.3	382.4	19.7
40°	1225.6	1183.3	1130.3	1035.3	923.1	802.0	640.7	517.5	396.0	308.2	15.4
42.5°	642.5	639.0	607.8	536.5	473.8	402.4	320.0	266.6	208.6	169.9	9.7
45°	275.9	277.7	256.2	245.5	221.1	191.4	161.6	134.7	115.4	93.5	5.7
47.5°	69.9	67.0	66.3	68.8	68.8	66.7	59.8	56.3	52.0	47.7	3.2
50°	30.1	29.4	28.7	28.7	26.9	25.8	24.0	21.9	20.1	17.9	1.4
52.5°	11.1	11.5	11.8	11.5	11.5	11.1	11.1	10.8	9.7	8.6	0.7
55°	3.6	3.6	3.6	3.9	3.9	4.3	4.3	4.3	4.3	3.9	0.0
57.5°	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	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°	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	15.8	14.0	11.8	10.0	9.7	9.3
5°	17.6	12.9	9.7	7.9	7.2	6.8
7.5°	19.0	11.8	7.9	5.7	5.0	4.7
10°	19.7	10.4	6.5	4.3	3.2	3.2
12.5°	20.1	9.0	4.7	2.9	1.8	1.8
15°	19.7	7.5	3.6	1.4	0.4	0.4
17.5°	17.9	6.1	2.2	0.4	0.0	0.0
20°	15.4	5.0	1.4	0.0	0.0	0.0
21°	14.7	4.3	1.1	0.0	0.0	0.0
22°	13.6	3.9	0.7	0.0	0.0	0.0
23°	12.5	3.6	0.7	0.0	0.0	0.0
24°	11.5	3.2	0.4	0.0	0.0	0.0
25°	10.8	2.9	0.4	0.0	0.0	0.0
26°	10.0	2.5	0.4	0.0	0.0	0.0
27°	9.0	2.2	0.0	0.0	0.0	0.0
28°	8.2	1.8	0.0	0.0	0.0	0.0
29°	7.2	1.4	0.0	0.0	0.0	0.0
30°	6.1	1.1	0.0	0.0	0.0	0.0
31°	5.0	1.1	0.0	0.0	0.0	0.0
32°	4.3	0.7	0.0	0.0	0.0	0.0
33°	3.6	0.7	0.0	0.0	0.0	0.0
34°	3.2	0.7	0.0	0.0	0.0	0.0
35°	2.9	0.7	0.0	0.0	0.0	0.0
36°	2.2	0.4	0.0	0.0	0.0	0.0
37°	1.8	0.4	0.0	0.0	0.0	0.0
38°	1.4	0.4	0.0	0.0	0.0	0.0
39°	1.1	0.0	0.0	0.0	0.0	0.0
40°	1.1	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	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.4	1.1	1.1
55°	0.4	0.7	0.4	0.7	1.4	1.4
57.5°	0.4	0.7	0.7	1.1	1.4	1.8
60°	0.7	1.1	1.1	1.1	1.8	1.8
62.5°	0.7	1.1	1.4	1.4	1.8	2.2
65°	0.7	1.4	1.4	1.4	1.8	2.2
67.5°	1.1	1.4	1.4	1.4	1.8	2.2
70°	1.1	1.4	1.4	1.4	1.8	1.8
72.5°	1.1	1.4	1.1	1.4	1.4	1.8
75°	1.1	1.4	1.1	1.1	1.4	1.4
77.5°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	1.1	0.7	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)