

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: P1324401

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQCA30R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324401
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: LDSQA3D05R20W2N902765DE010 3LSQCA30R 1MMS_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

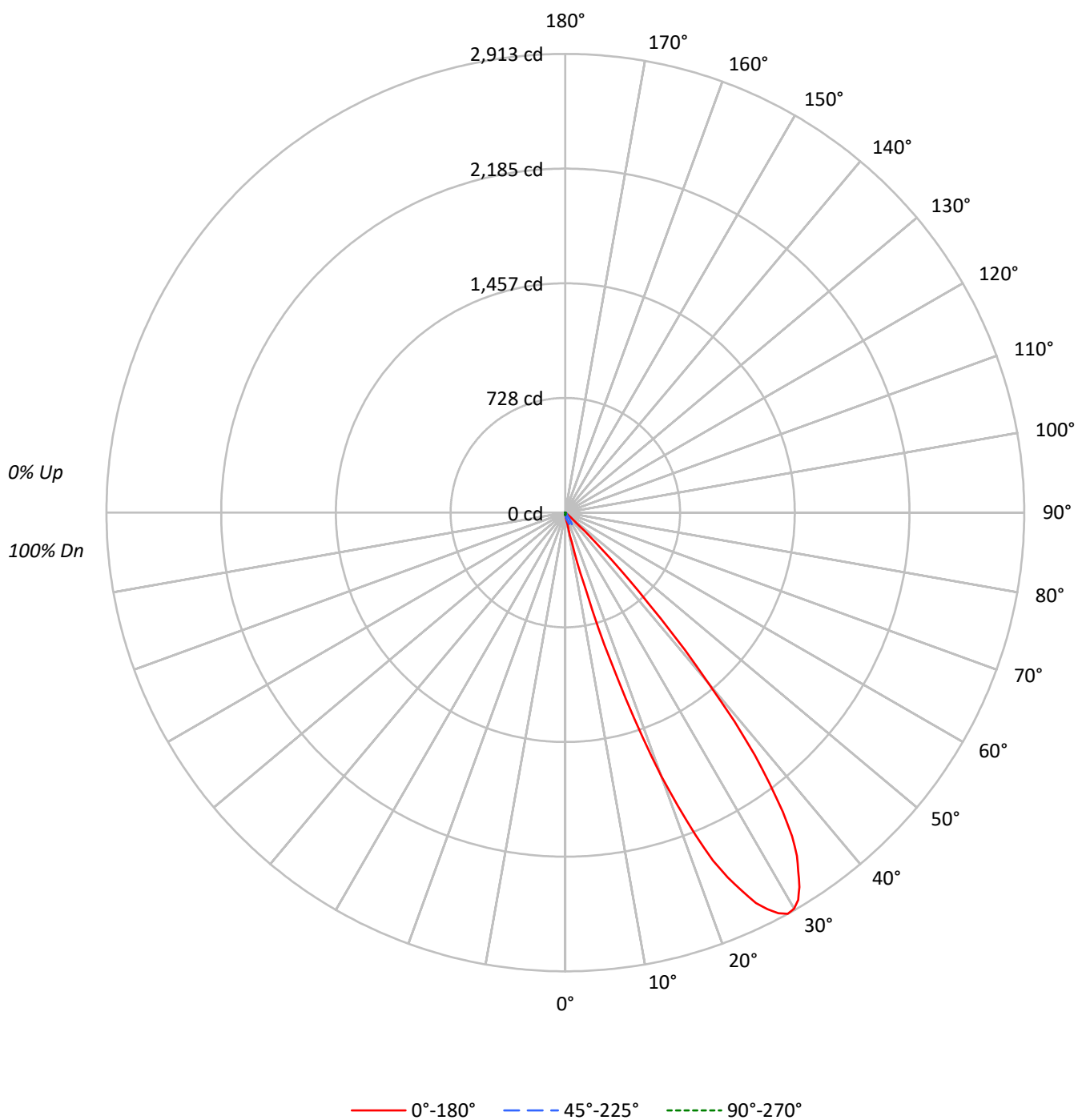
Lumens per Lamp: N/A
Luminaire Lumens: 402.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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
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	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2480	2480	2480	2480	2480
5°	5394	3803	2282	1037	761
10°	13431	6715	1609	210	0
15°	94444	9200	927	0	0
20°	326432	15468	367	0	0
25°	503172	19744	152	0	0
30°	577545	15273	0	0	0
35°	527463	5803	0	0	0
40°	316210	2698	0	0	0
45°	77696	1267	0	0	0
50°	8574	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: 82859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	31.4	7.8
20°-30°	158.8	39.5
30°-40°	171.8	42.7
40°-50°	36.3	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°	191.8	47.7
0°-40°	363.7	90.5
0°-60°	401.0	99.8
0°-90°	402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	22	13	6	4	4
15°	530	52	5	0	0	221
25°	2648	104	1	0	0	1197
35°	2509	28	0	0	0	1479
45°	319	5	0	0	0	351
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	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
2.5°	19.6	19.2	19.6	19.2	19.6	19.6	19.6	19.2	19.2	19.2	19.2
5°	31.2	31.2	30.8	31.2	31.2	31.2	31.2	30.8	30.8	30.4	30.4
7.5°	49.2	49.2	48.8	48.8	49.2	49.6	48.0	48.8	48.8	48.8	48.4
10°	76.8	78.4	76.8	78.8	77.2	76.0	78.0	76.0	76.0	75.6	74.4
12.5°	193.5	189.1	186.3	179.5	186.3	181.1	182.3	181.1	177.1	171.9	168.7
15°	529.7	529.7	514.1	534.9	519.7	525.3	496.6	497.0	482.2	466.2	457.4
17.5°	1107.5	1117.4	1107.1	1100.7	1087.1	1067.5	1059.5	1039.1	1012.3	981.1	977.5
20°	1781.1	1739.1	1758.7	1740.7	1729.5	1705.6	1678.8	1662.0	1638.4	1598.8	1540.4
21°	1993.0	1991.4	1991.0	1990.6	1974.2	1935.0	1910.7	1877.1	1843.9	1803.1	1754.3
22°	2206.5	2214.1	2217.3	2194.1	2160.5	2142.9	2126.2	2080.2	2027.8	2006.6	1948.6
23°	2402.4	2395.2	2374.4	2363.6	2337.6	2332.5	2282.5	2253.3	2202.1	2178.9	2110.2
24°	2536.0	2532.4	2522.8	2506.8	2486.0	2454.0	2424.0	2378.0	2336.0	2298.1	2234.1
25°	2647.9	2651.1	2633.5	2622.7	2600.3	2564.3	2527.6	2477.2	2438.0	2393.6	2319.7
26°	2758.6	2736.3	2722.3	2706.3	2681.9	2640.7	2605.1	2559.9	2512.4	2462.8	2390.4
27°	2827.0	2807.0	2785.8	2770.2	2742.2	2703.1	2665.1	2615.1	2561.9	2512.0	2437.6
28°	2881.0	2859.0	2838.2	2819.4	2787.4	2745.4	2699.9	2649.1	2593.9	2542.3	2466.4
29°	2913.0	2887.0	2864.6	2843.4	2814.2	2768.6	2722.7	2668.3	2615.1	2561.1	2483.6
30°	2904.2	2881.8	2860.2	2838.6	2809.0	2766.2	2720.7	2668.7	2615.1	2561.9	2483.2
31°	2869.8	2842.2	2826.6	2805.0	2779.4	2735.9	2696.7	2639.9	2591.5	2534.0	2455.2
32°	2803.8	2786.2	2765.4	2748.6	2723.9	2677.5	2639.1	2592.7	2535.6	2488.4	2405.6
33°	2714.3	2697.9	2687.5	2667.9	2643.9	2611.9	2565.9	2523.6	2459.2	2410.8	2328.1
34°	2628.7	2607.9	2581.9	2576.3	2555.5	2514.4	2472.8	2429.6	2372.0	2310.5	2226.9
35°	2508.8	2487.2	2463.2	2465.2	2440.4	2392.4	2350.0	2301.7	2246.9	2174.5	2095.4
36°	2348.4	2334.1	2330.5	2320.9	2292.5	2235.3	2194.9	2134.1	2088.2	1999.8	1931.8
37°	2152.9	2158.1	2132.2	2119.8	2086.6	2046.6	2023.8	1945.8	1892.3	1825.9	1733.9
38°	1955.4	1947.8	1917.1	1924.7	1879.1	1837.5	1773.1	1726.7	1666.8	1605.2	1531.6
39°	1708.8	1690.0	1653.2	1654.8	1620.4	1573.6	1511.3	1456.5	1420.5	1361.3	1291.0
40°	1406.5	1398.5	1385.7	1364.5	1319.4	1299.0	1243.4	1184.2	1153.8	1071.9	1037.5
42.5°	780.4	769.6	748.0	740.4	716.4	692.5	660.1	620.5	601.3	576.9	522.5
45°	319.0	340.2	335.0	329.0	310.6	311.8	288.7	291.5	270.3	255.9	245.9
47.5°	70.4	76.4	76.8	74.0	76.8	74.4	73.2	71.2	71.6	72.8	70.0
50°	32.0	31.6	32.4	32.0	31.6	31.2	30.8	29.6	30.4	29.6	28.8
52.5°	12.4	12.8	12.8	12.0	12.4	12.4	12.4	12.0	12.0	12.0	12.0
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°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
2.5°	18.4	16.8	15.6	14.4	12.0	10.0	9.2	9.2
5°	28.4	22.0	16.4	13.2	9.2	6.0	4.8	4.4
7.5°	42.8	29.6	17.2	11.2	6.0	3.2	2.0	1.6
10°	62.0	38.4	18.0	9.2	3.6	1.2	0.0	0.0
12.5°	108.3	46.0	18.0	7.2	1.6	0.0	0.0	0.0
15°	248.3	51.6	17.2	5.2	0.4	0.0	0.0	0.0
17.5°	515.7	64.8	15.2	3.6	0.0	0.0	0.0	0.0
20°	823.6	84.4	12.0	2.0	0.0	0.0	0.0	0.0
21°	950.3	91.2	10.8	1.6	0.0	0.0	0.0	0.0
22°	1041.5	97.6	9.6	1.2	0.0	0.0	0.0	0.0
23°	1141.8	101.5	8.4	0.8	0.0	0.0	0.0	0.0
24°	1215.8	103.9	7.2	0.8	0.0	0.0	0.0	0.0
25°	1261.8	103.9	6.4	0.8	0.0	0.0	0.0	0.0
26°	1289.0	101.5	5.6	0.4	0.0	0.0	0.0	0.0
27°	1295.4	97.6	4.8	0.4	0.0	0.0	0.0	0.0
28°	1287.4	92.4	4.0	0.0	0.0	0.0	0.0	0.0
29°	1262.2	84.8	3.6	0.0	0.0	0.0	0.0	0.0
30°	1235.0	76.8	2.8	0.0	0.0	0.0	0.0	0.0
31°	1188.6	66.0	2.4	0.0	0.0	0.0	0.0	0.0
32°	1135.0	54.8	2.0	0.0	0.0	0.0	0.0	0.0
33°	1063.5	43.2	1.6	0.0	0.0	0.0	0.0	0.0
34°	957.9	34.0	1.6	0.0	0.0	0.0	0.0	0.0
35°	863.2	27.6	1.2	0.0	0.0	0.0	0.0	0.0
36°	739.2	22.0	1.2	0.0	0.0	0.0	0.0	0.0
37°	633.3	18.4	1.2	0.0	0.0	0.0	0.0	0.0
38°	530.1	15.6	0.8	0.0	0.0	0.0	0.0	0.0
39°	430.2	13.6	0.8	0.0	0.0	0.0	0.0	0.0
40°	343.0	12.0	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	185.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	102.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	45.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	15.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.6	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)