

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: P1318902

Luminaire Tested: LDSQA3D05R209835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318902
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: LDSQA3D05R209835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

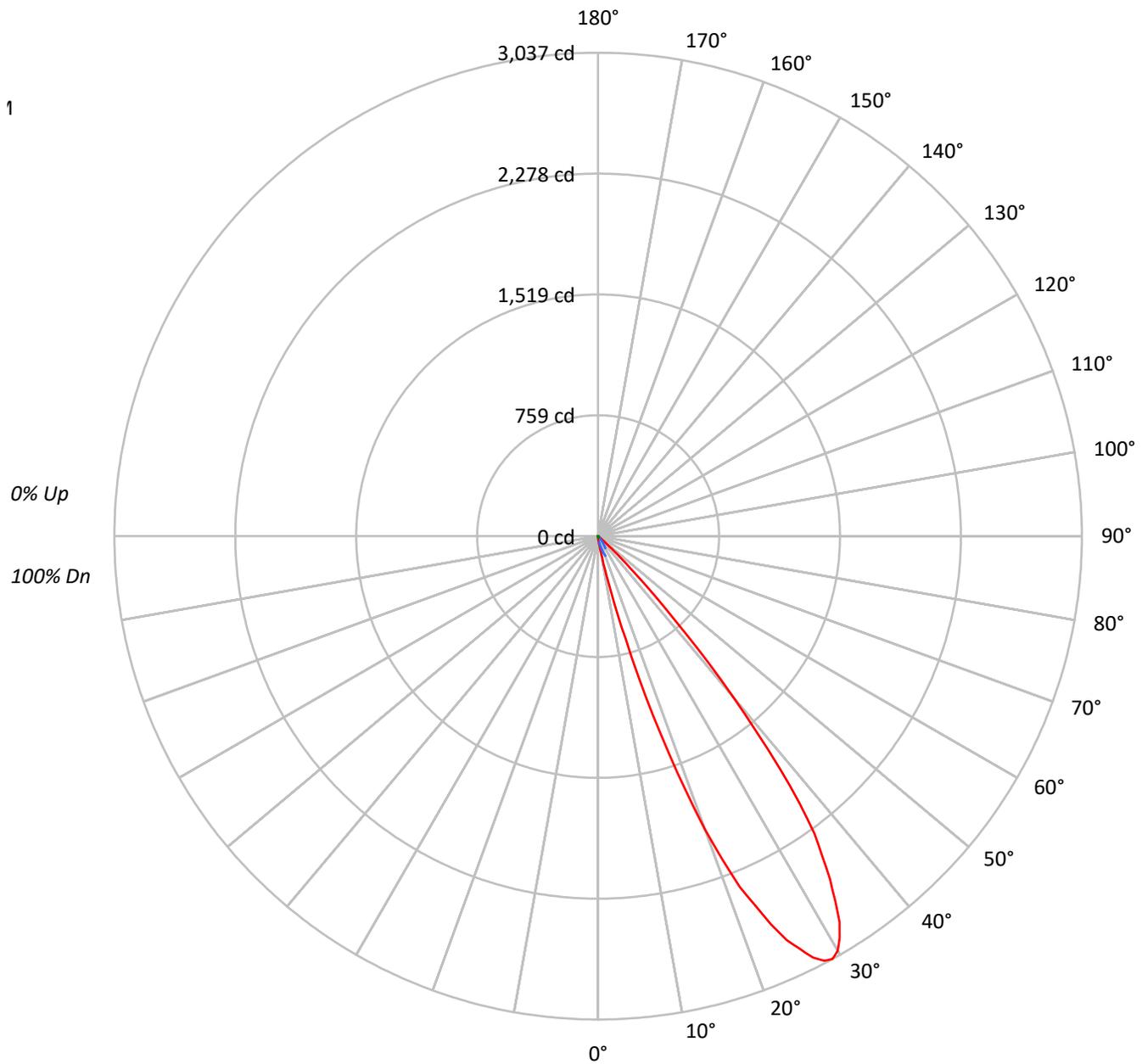
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 426.0 lumens
Efficiency: N/A
Efficacy: 59.2 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): 7.2
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				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°	2532	2532	2532	2532	2532
5°	5809	4339	2403	1469	1262
10°	18310	7572	1959	804	612
15°	118657	13996	1444	267	71
20°	358139	23936	990	0	0
25°	531866	24171	589	0	0
30°	598108	18375	239	0	0
35°	516067	10975	168	0	0
40°	297168	3732	0	0	0
45°	72483	1510	97	0	97
50°	8708	402	107	107	322
55°	1171	0	240	240	450
60°	138	0	413	413	654
65°	163	163	611	611	937
70°	201	201	755	755	957
75°	0	266	998	799	998
80°	0	397	1190	793	1190
85°	0	790	2371	790	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 72946 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	39.5	9.3
20°-30°	172.1	40.4
30°-40°	173.3	40.7
40°-50°	34.8	8.2
50°-60°	1.8	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°	213.5	50.1
0°-40°	386.8	90.8
0°-60°	423.3	99.4
0°-90°	426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	34	25	14	8	7	5
15°	666	78	8	2	0	261
25°	2799	127	3	0	0	1262
35°	2455	52	1	0	0	1460
45°	298	6	0	0	0	324
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°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
2.5°	22.0	22.0	21.6	21.6	21.3	21.6	20.9	21.3	21.3	20.9	18.9
5°	33.6	34.4	34.0	34.0	33.6	34.0	33.2	32.5	31.7	31.7	25.1
7.5°	55.3	54.9	54.1	54.5	53.3	52.6	51.8	51.4	49.1	47.9	32.9
10°	104.7	107.1	105.1	104.7	97.8	97.4	92.8	86.2	80.4	77.3	43.3
12.5°	288.3	300.7	281.4	272.1	266.7	245.8	236.9	214.1	192.1	175.5	54.9
15°	665.5	696.1	657.0	659.7	627.3	567.7	515.6	470.7	417.8	364.5	78.5
17.5°	1304.0	1279.3	1258.0	1222.1	1156.0	1068.6	956.2	842.1	743.6	640.4	109.4
20°	1954.1	1932.0	1883.7	1805.3	1721.0	1591.5	1457.8	1286.6	1120.8	965.4	130.6
21°	2177.8	2170.5	2091.3	2042.9	1913.1	1789.4	1635.2	1452.0	1265.3	1081.4	134.1
22°	2377.6	2333.6	2291.1	2219.6	2090.5	1956.0	1784.4	1591.5	1389.0	1184.6	134.5
23°	2516.0	2495.9	2455.7	2374.9	2246.6	2088.6	1907.7	1705.9	1492.6	1257.6	133.3
24°	2669.1	2643.5	2584.8	2490.5	2361.0	2204.9	1998.5	1798.3	1566.4	1319.1	130.2
25°	2798.9	2759.1	2689.5	2587.9	2446.4	2285.3	2077.7	1857.8	1617.8	1360.4	127.2
26°	2883.2	2861.5	2772.2	2661.7	2510.2	2344.0	2132.2	1903.4	1651.1	1379.4	122.1
27°	2970.9	2931.1	2843.4	2716.2	2551.9	2382.3	2163.1	1925.5	1662.6	1380.1	115.9
28°	3021.1	2977.9	2878.5	2744.8	2579.0	2403.5	2180.9	1932.4	1660.3	1368.1	108.6
29°	3037.0	2982.5	2885.5	2749.4	2585.6	2405.1	2178.2	1922.4	1639.8	1338.8	100.1
30°	3007.6	2952.0	2860.0	2727.4	2564.7	2385.8	2153.1	1889.1	1603.5	1296.7	92.4
31°	2943.5	2896.3	2807.4	2674.5	2518.3	2340.5	2096.3	1834.6	1541.7	1240.2	83.5
32°	2858.8	2812.4	2725.1	2604.9	2446.1	2266.7	2018.6	1749.6	1469.0	1156.0	74.6
33°	2731.7	2705.0	2626.5	2511.8	2352.9	2161.2	1914.3	1648.0	1365.4	1062.4	66.9
34°	2603.0	2569.3	2514.5	2388.9	2218.0	2026.7	1778.2	1507.7	1239.1	957.7	59.5
35°	2454.6	2434.5	2348.3	2247.8	2076.2	1880.6	1633.7	1371.2	1091.8	841.0	52.2
36°	2310.8	2279.9	2181.7	2075.4	1908.8	1697.4	1453.6	1207.0	964.7	731.6	44.4
37°	2102.1	2054.9	1985.0	1872.9	1678.1	1498.0	1275.4	1046.6	808.1	613.3	35.9
38°	1856.7	1834.6	1737.6	1624.8	1463.6	1292.8	1072.5	878.5	666.7	512.1	27.4
39°	1567.2	1566.8	1474.0	1392.5	1234.8	1081.0	882.3	713.1	550.4	412.4	21.3
40°	1321.8	1276.2	1219.0	1116.5	995.6	864.9	691.0	558.1	427.1	332.4	16.6
42.5°	693.0	689.1	655.5	578.6	510.9	434.0	345.1	287.5	224.9	183.2	10.4
45°	297.6	299.5	276.3	264.7	238.5	206.4	174.3	145.3	124.4	100.9	6.2
47.5°	75.4	72.3	71.5	74.2	74.2	71.9	64.5	60.7	56.0	51.4	3.5
50°	32.5	31.7	30.9	30.9	29.0	27.8	25.9	23.6	21.6	19.3	1.5
52.5°	12.0	12.4	12.8	12.4	12.4	12.0	12.0	11.6	10.4	9.3	0.8
55°	3.9	3.9	3.9	4.3	4.3	4.6	4.6	4.6	4.6	4.3	0.0
57.5°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	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°	14.7	14.7	14.7	14.7	14.7	14.7
2.5°	17.0	15.1	12.8	10.8	10.4	10.0
5°	18.9	13.9	10.4	8.5	7.7	7.3
7.5°	20.5	12.8	8.5	6.2	5.4	5.0
10°	21.3	11.2	7.0	4.6	3.5	3.5
12.5°	21.6	9.7	5.0	3.1	1.9	1.9
15°	21.3	8.1	3.9	1.5	0.4	0.4
17.5°	19.3	6.6	2.3	0.4	0.0	0.0
20°	16.6	5.4	1.5	0.0	0.0	0.0
21°	15.8	4.6	1.2	0.0	0.0	0.0
22°	14.7	4.3	0.8	0.0	0.0	0.0
23°	13.5	3.9	0.8	0.0	0.0	0.0
24°	12.4	3.5	0.4	0.0	0.0	0.0
25°	11.6	3.1	0.4	0.0	0.0	0.0
26°	10.8	2.7	0.4	0.0	0.0	0.0
27°	9.7	2.3	0.0	0.0	0.0	0.0
28°	8.9	1.9	0.0	0.0	0.0	0.0
29°	7.7	1.5	0.0	0.0	0.0	0.0
30°	6.6	1.2	0.0	0.0	0.0	0.0
31°	5.4	1.2	0.0	0.0	0.0	0.0
32°	4.6	0.8	0.0	0.0	0.0	0.0
33°	3.9	0.8	0.0	0.0	0.0	0.0
34°	3.5	0.8	0.0	0.0	0.0	0.0
35°	3.1	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.4	0.0	0.0	0.0	0.0
37°	1.9	0.4	0.0	0.0	0.0	0.0
38°	1.5	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	1.5	1.5
57.5°	0.4	0.8	0.8	1.2	1.5	1.9
60°	0.8	1.2	1.2	1.2	1.9	1.9
62.5°	0.8	1.2	1.5	1.5	1.9	2.3
65°	0.8	1.5	1.5	1.5	1.9	2.3
67.5°	1.2	1.5	1.5	1.5	1.9	2.3
70°	1.2	1.5	1.5	1.5	1.9	1.9
72.5°	1.2	1.5	1.2	1.5	1.5	1.9
75°	1.2	1.5	1.2	1.2	1.5	1.5
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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	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)