

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: P1313703

Luminaire Tested: LDSQA3D13R409727DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R409727DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

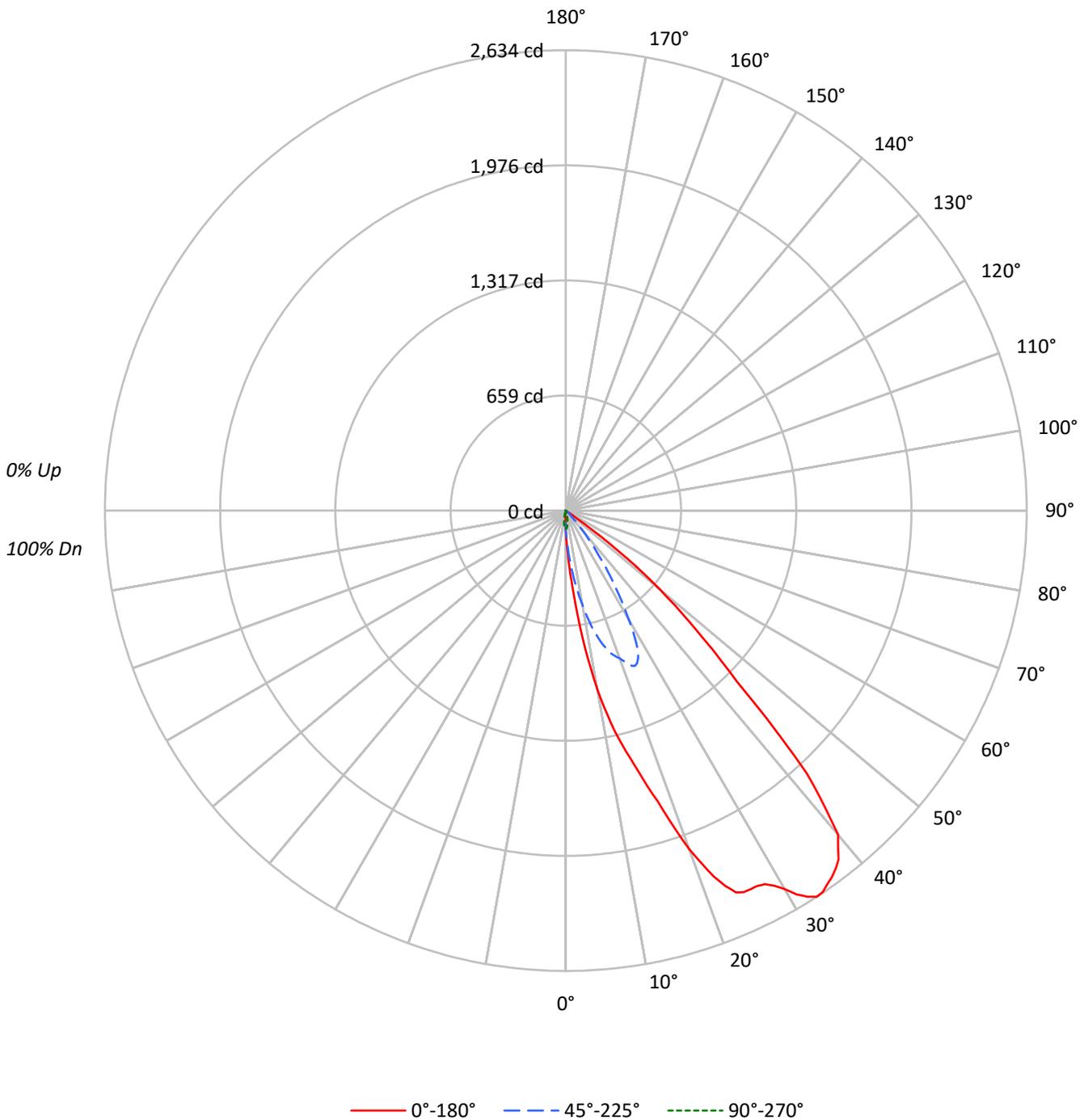
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 884.0 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (A_{in}): 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	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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17808	17808	17808	17808	17808
5°	75583	51518	15628	2818	1400
10°	181665	95816	9688	280	0
15°	267376	139197	4065	0	0
20°	377951	165021	1485	0	0
25°	457774	183167	0	0	0
30°	497025	143283	0	0	0
35°	548067	83867	0	0	0
40°	543954	34038	0	0	0
45°	336892	9913	0	0	0
50°	187578	214	0	0	0
55°	18346	0	0	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	403	806	0	0
75°	0	532	1065	0	0
80°	0	793	1587	0	0
85°	0	1581	3162	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 338475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	2.2
10°-20°	113.9	12.9
20°-30°	260.1	29.4
30°-40°	307.1	34.7
40°-50°	164.1	18.6
50°-60°	17.8	2.0
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.6	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°	393.4	44.5
0°-40°	700.5	79.2
0°-60°	882.4	99.8
0°-90°	884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	884.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	103	103	103	103	103	
5°	437	298	90	16	8	61
15°	1500	781	23	0	0	445
25°	2409	964	0	0	0	1094
35°	2607	399	0	0	0	1610
45°	1383	41	0	0	0	1140
55°	61	0	0	0	0	171
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4
2.5°	241.0	236.1	239.3	232.8	232.8	218.2	219.0	206.8	188.9	144.1	102.6
5°	437.2	456.7	441.2	420.9	409.5	394.8	375.3	355.0	298.0	179.9	90.4
7.5°	731.9	730.3	704.2	682.2	657.0	617.9	581.3	531.6	424.2	206.0	74.9
10°	1038.8	1033.1	1003.8	985.1	937.0	880.9	806.0	726.2	547.9	214.9	55.4
12.5°	1294.4	1287.1	1262.7	1230.9	1178.0	1107.2	1026.6	921.6	678.2	205.2	35.8
15°	1499.6	1498.0	1474.4	1431.2	1375.9	1306.7	1215.5	1089.3	780.7	179.9	22.8
17.5°	1743.0	1752.8	1710.5	1664.0	1584.3	1487.4	1375.9	1231.8	856.4	149.0	14.7
20°	2062.2	2048.3	2009.2	1941.7	1865.1	1748.7	1590.8	1384.8	900.4	115.6	8.1
21°	2159.8	2154.1	2113.4	2050.8	1966.1	1848.0	1685.2	1463.0	920.8	103.4	6.5
22°	2259.2	2249.4	2217.6	2156.6	2076.8	1943.3	1764.2	1543.6	946.8	90.4	4.1
23°	2333.3	2329.2	2304.8	2244.5	2162.3	2032.8	1849.7	1618.5	964.7	78.2	2.4
24°	2390.2	2385.4	2360.9	2315.3	2244.5	2109.4	1936.0	1699.1	972.1	67.6	0.8
25°	2409.0	2411.4	2396.8	2360.9	2301.5	2166.4	2000.3	1762.6	963.9	57.8	0.0
26°	2409.8	2417.1	2406.5	2386.2	2337.3	2211.9	2060.5	1800.0	942.7	48.8	0.0
27°	2409.8	2417.1	2406.5	2391.1	2343.0	2238.0	2093.1	1804.1	910.2	41.5	0.0
28°	2421.2	2425.2	2411.4	2392.7	2340.6	2246.1	2102.0	1779.7	858.1	35.8	0.0
29°	2452.9	2448.9	2426.1	2400.8	2338.1	2246.1	2075.2	1733.2	792.9	30.1	0.0
30°	2499.3	2499.3	2463.5	2423.6	2349.5	2245.3	2032.0	1649.4	720.5	24.4	0.0
31°	2562.0	2556.3	2520.5	2461.1	2374.0	2245.3	1968.5	1556.6	653.7	21.2	0.0
32°	2604.4	2601.1	2566.9	2496.9	2413.8	2245.3	1900.1	1454.0	581.3	17.1	0.0
33°	2633.7	2627.1	2588.1	2515.6	2438.3	2233.9	1823.6	1344.1	516.1	13.8	0.0
34°	2629.6	2628.0	2587.3	2512.4	2433.4	2186.7	1734.9	1222.0	455.9	11.4	0.0
35°	2606.8	2606.8	2557.1	2479.8	2398.4	2117.5	1647.0	1117.8	398.9	8.1	0.0
36°	2589.7	2583.2	2527.0	2440.7	2339.8	2008.4	1516.7	1012.8	337.9	6.5	0.0
37°	2564.5	2552.2	2489.6	2396.8	2256.7	1890.4	1379.9	919.1	285.8	4.1	0.0
38°	2531.9	2513.2	2436.6	2345.5	2165.5	1754.4	1240.7	814.1	237.7	2.4	0.0
39°	2472.5	2457.0	2378.0	2279.5	2056.5	1611.1	1105.6	715.6	192.1	0.8	0.0
40°	2419.5	2392.7	2303.1	2190.0	1928.6	1449.1	971.2	618.7	151.4	0.0	0.0
42.5°	2040.2	2011.7	1991.3	1879.0	1536.2	1040.4	678.2	396.5	79.0	0.0	0.0
45°	1383.2	1389.7	1326.2	1250.5	1013.6	678.2	424.2	220.6	40.7	0.0	0.0
47.5°	1008.7	991.6	905.3	762.0	594.3	396.5	221.4	106.6	16.3	0.0	0.0
50°	700.1	667.6	589.4	482.0	323.2	188.9	97.7	49.7	0.8	0.0	0.0
52.5°	380.2	357.4	302.9	219.8	134.3	72.5	39.1	20.4	0.0	0.0	0.0
55°	61.1	42.3	44.0	37.4	29.3	21.2	12.2	2.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
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):

	112.5°	135°	157.5°	180°
0°	103.4	103.4	103.4	103.4
2.5°	69.2	47.2	35.8	30.9
5°	39.9	16.3	9.0	8.1
7.5°	19.5	5.7	3.3	3.3
10°	8.1	1.6	0.0	0.0
12.5°	2.4	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0
72.5°	0.8	0.0	0.0	0.0
75°	0.8	0.0	0.0	0.0
77.5°	0.8	0.0	0.0	0.0
80°	0.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.8	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)