

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: P1319258

Luminaire Tested: LDSQA3D13R409835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319258
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: LDSQA3D13R409835DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

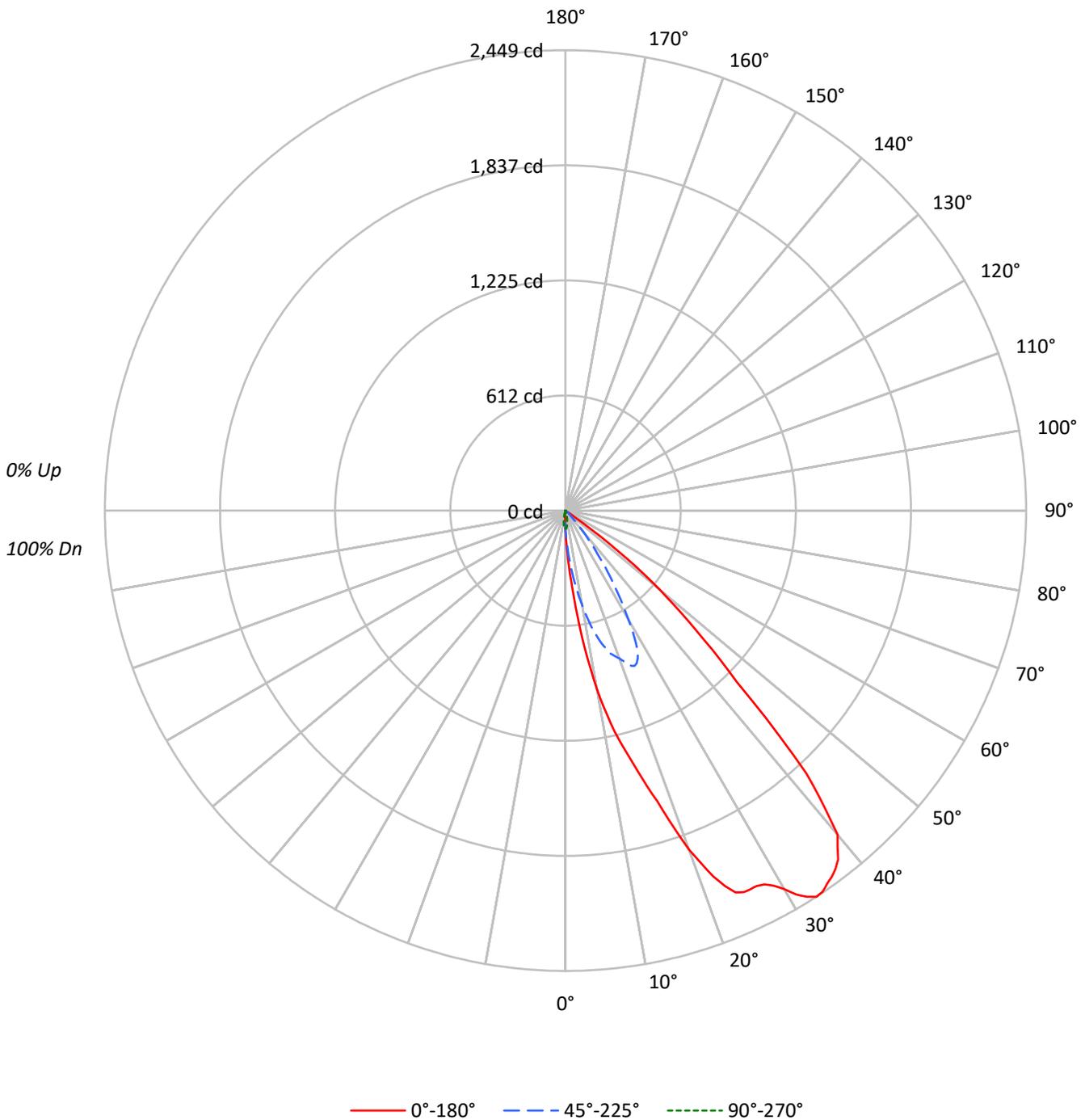
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 822.0 lumens
Efficiency: N/A
Efficacy: 56.7 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): 14.5
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				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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83	83	83	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74	74	74	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49	49	49	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40	40	40	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16551	16551	16551	16551	16551
5°	70276	47905	14522	2610	1314
10°	168934	89101	9006	262	0
15°	248619	129444	3780	0	0
20°	351431	153457	1393	0	0
25°	425660	170321	0	0	0
30°	462164	133240	0	0	0
35°	509634	77980	0	0	0
40°	505802	31655	0	0	0
45°	313266	9231	0	0	0
50°	174423	214	0	0	0
55°	17055	0	0	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	403	755	0	0
75°	0	532	998	0	0
80°	0	793	1488	0	0
85°	0	1581	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 314728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	2.2
10°-20°	106.0	12.9
20°-30°	241.9	29.4
30°-40°	285.6	34.7
40°-50°	152.6	18.6
50°-60°	16.6	2.0
60°-70°	0.3	0.0
70°-80°	0.6	0.1
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°	365.8	44.5
0°-40°	651.4	79.2
0°-60°	820.6	99.8
0°-90°	822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	96	96	96	96	96	
5°	406	277	84	15	8	57
15°	1394	726	21	0	0	414
25°	2240	896	0	0	0	1017
35°	2424	371	0	0	0	1497
45°	1286	38	0	0	0	1060
55°	57	0	0	0	0	159
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2.5°	224.1	219.5	222.6	216.5	216.5	202.9	203.6	192.3	175.6	134.0	95.4
5°	406.5	424.7	410.3	391.4	380.8	367.2	349.0	330.1	277.1	167.3	84.0
7.5°	680.6	679.0	654.8	634.4	610.9	574.6	540.5	494.3	394.4	191.5	69.6
10°	966.0	960.7	933.4	916.0	871.3	819.1	749.4	675.3	509.5	199.9	51.5
12.5°	1203.7	1196.8	1174.1	1144.6	1095.4	1029.5	954.6	856.9	630.6	190.8	33.3
15°	1394.4	1392.9	1371.0	1330.8	1279.4	1215.0	1130.2	1012.9	726.0	167.3	21.2
17.5°	1620.8	1629.9	1590.5	1547.3	1473.2	1383.1	1279.4	1145.4	796.4	138.5	13.6
20°	1917.5	1904.7	1868.3	1805.5	1734.3	1626.1	1479.2	1287.7	837.3	107.5	7.6
21°	2008.4	2003.1	1965.2	1906.9	1828.2	1718.4	1567.0	1360.4	856.2	96.1	6.1
22°	2100.7	2091.6	2062.1	2005.3	1931.1	1807.0	1640.5	1435.3	880.4	84.0	3.8
23°	2169.6	2165.8	2143.1	2087.1	2010.6	1890.3	1719.9	1504.9	897.1	72.7	2.3
24°	2222.6	2218.1	2195.3	2153.0	2087.1	1961.4	1800.2	1579.9	903.9	62.8	0.8
25°	2240.0	2242.3	2228.7	2195.3	2140.1	2014.4	1860.0	1638.9	896.3	53.7	0.0
26°	2240.8	2247.6	2237.7	2218.8	2173.4	2056.8	1916.0	1673.8	876.6	45.4	0.0
27°	2240.8	2247.6	2237.7	2223.4	2178.7	2081.0	1946.3	1677.5	846.3	38.6	0.0
28°	2251.4	2255.1	2242.3	2224.9	2176.4	2088.6	1954.6	1654.8	797.9	33.3	0.0
29°	2280.9	2277.1	2255.9	2232.4	2174.1	2088.6	1929.6	1611.7	737.3	28.0	0.0
30°	2324.0	2324.0	2290.7	2253.6	2184.7	2087.8	1889.5	1533.7	670.0	22.7	0.0
31°	2382.3	2377.0	2343.7	2288.5	2207.5	2087.8	1830.5	1447.4	607.9	19.7	0.0
32°	2421.7	2418.7	2386.9	2321.8	2244.6	2087.8	1766.9	1352.0	540.5	15.9	0.0
33°	2448.9	2442.9	2406.6	2339.2	2267.3	2077.3	1695.7	1249.8	479.9	12.9	0.0
34°	2445.2	2443.6	2405.8	2336.1	2262.7	2033.3	1613.2	1136.3	423.9	10.6	0.0
35°	2424.0	2424.0	2377.8	2305.9	2230.2	1969.0	1531.4	1039.4	370.9	7.6	0.0
36°	2408.1	2402.0	2349.8	2269.5	2175.7	1867.6	1410.3	941.7	314.2	6.1	0.0
37°	2384.6	2373.2	2315.0	2228.7	2098.4	1757.8	1283.1	854.7	265.7	3.8	0.0
38°	2354.3	2336.9	2265.7	2181.0	2013.7	1631.4	1153.7	757.0	221.0	2.3	0.0
39°	2299.1	2284.7	2211.2	2119.6	1912.2	1498.1	1028.0	665.4	178.7	0.8	0.0
40°	2249.8	2224.9	2141.6	2036.4	1793.4	1347.5	903.1	575.3	140.8	0.0	0.0
42.5°	1897.1	1870.6	1851.7	1747.2	1428.5	967.5	630.6	368.7	73.4	0.0	0.0
45°	1286.2	1292.2	1233.2	1162.8	942.5	630.6	394.4	205.2	37.9	0.0	0.0
47.5°	937.9	922.0	841.8	708.6	552.6	368.7	205.9	99.2	15.1	0.0	0.0
50°	651.0	620.8	548.1	448.2	300.5	175.6	90.8	46.2	0.8	0.0	0.0
52.5°	353.5	332.3	281.6	204.4	124.9	67.4	36.3	18.9	0.0	0.0	0.0
55°	56.8	39.4	40.9	34.8	27.3	19.7	11.4	2.3	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	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5



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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	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5
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°	96.1	96.1	96.1	96.1
2.5°	64.3	43.9	33.3	28.8
5°	37.1	15.1	8.3	7.6
7.5°	18.2	5.3	3.0	3.0
10°	7.6	1.5	0.0	0.0
12.5°	2.3	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)