

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: P1315979

Luminaire Tested: LDSQA3D20R559735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R559735D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

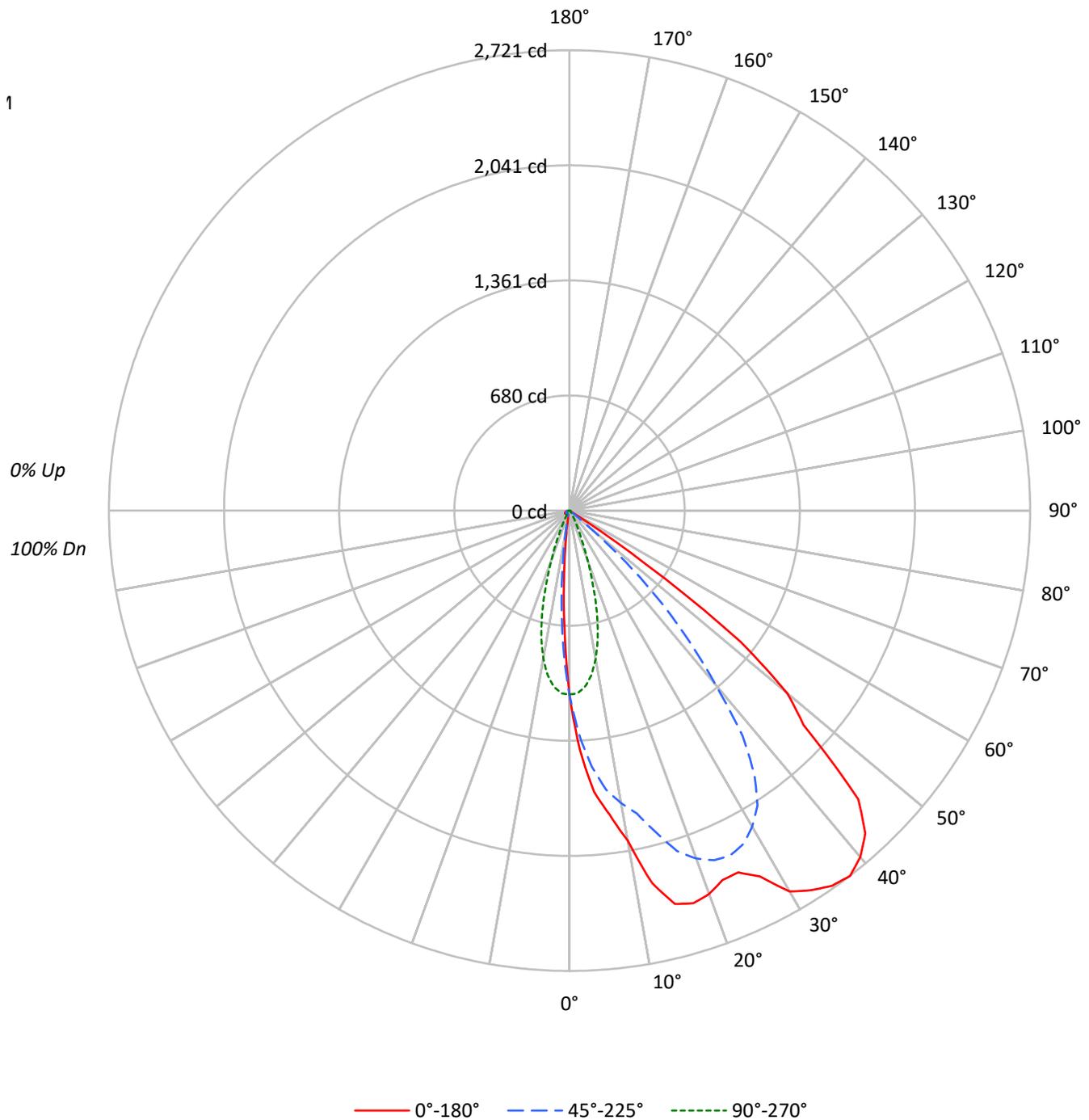
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1811.9 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	187051	187051	187051	187051	187051
5°	288434	262588	180677	92785	60958
10°	346541	306913	155520	23399	9356
15°	429092	350516	111133	6454	5046
20°	441932	400970	57402	4325	4325
25°	448349	427123	23031	3896	4485
30°	516792	429132	10023	4077	4693
35°	568860	400075	4310	4310	5298
40°	600856	301147	2473	4946	5665
45°	587685	184009	2289	5358	6893
50°	449561	39225	2519	6323	8011
55°	164933	1411	2822	7086	8978
60°	1619	1619	3238	8129	10299
65°	1915	1915	3831	8354	10921
70°	1561	2367	3978	9517	12689
75°	1065	2063	4192	10447	14639
80°	1587	3075	4661	10910	15571
85°	0	3162	6126	12449	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 587685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	5.3
10°-20°	273.8	15.1
20°-30°	420.0	23.2
30°-40°	489.4	27.0
40°-50°	391.1	21.6
50°-60°	115.8	6.4
60°-70°	12.4	0.7
70°-80°	9.7	0.5
80°-90°	4.1	0.2
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°	789.4	43.6
0°-40°	1278.9	70.6
0°-60°	1785.7	98.6
0°-90°	1811.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1668	1519	1045	537	353	166
15°	2407	1966	623	36	28	664
25°	2359	2248	121	20	24	1121
35°	2706	1903	20	20	25	1685
45°	2413	756	9	22	28	1740
55°	549	5	9	24	30	582
65°	5	5	9	20	27	4
75°	2	3	6	16	22	2
85°	0	2	3	6	8	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1
2.5°	1416.6	1416.6	1411.9	1413.4	1410.3	1393.0	1389.8	1367.8	1348.9	1328.4	1311.1
5°	1668.4	1671.6	1666.9	1657.4	1644.8	1632.2	1605.5	1585.0	1558.2	1518.9	1482.7
7.5°	1811.7	1808.5	1800.6	1797.5	1789.6	1775.5	1756.6	1734.5	1703.1	1663.7	1621.2
10°	1981.6	1954.9	1947.0	1934.4	1909.2	1880.9	1847.9	1818.0	1791.2	1755.0	1709.3
12.5°	2255.5	2250.8	2219.3	2195.7	2161.1	2098.1	2041.5	1975.4	1896.7	1833.7	1773.9
15°	2406.6	2409.8	2395.6	2376.7	2354.7	2302.7	2246.1	2169.0	2076.1	1965.9	1868.3
17.5°	2433.4	2438.1	2430.2	2422.4	2416.1	2386.2	2351.5	2296.4	2211.5	2109.1	1964.3
20°	2411.3	2420.8	2422.4	2431.8	2444.4	2431.8	2403.5	2365.7	2294.9	2187.8	2049.3
22.5°	2362.6	2379.9	2392.5	2425.5	2458.6	2458.6	2441.3	2411.3	2342.1	2236.6	2095.0
25°	2359.4	2362.6	2367.3	2420.8	2472.7	2483.8	2468.0	2436.5	2361.0	2247.7	2093.4
27.5°	2438.1	2417.6	2386.2	2439.7	2501.1	2510.5	2488.5	2446.0	2356.3	2222.5	2039.9
30°	2598.7	2553.0	2486.9	2526.2	2568.7	2557.7	2513.7	2446.0	2324.8	2157.9	1939.2
32.5°	2660.0	2634.9	2611.2	2653.7	2661.6	2616.0	2537.3	2436.5	2274.4	2066.6	1773.9
35°	2705.7	2707.3	2697.8	2705.7	2667.9	2603.4	2516.8	2384.6	2180.0	1902.9	1555.1
37.5°	2721.4	2724.6	2704.1	2675.8	2619.1	2545.1	2441.3	2290.1	2022.6	1677.9	1224.6
40°	2672.6	2663.2	2630.1	2590.8	2529.4	2453.8	2340.5	2115.4	1788.0	1339.5	955.4
42.5°	2586.1	2570.3	2531.0	2483.8	2419.2	2323.2	2142.2	1869.9	1452.8	1045.1	668.9
45°	2412.9	2401.9	2353.1	2318.5	2241.4	2117.0	1884.1	1540.9	1123.8	755.5	387.2
47.5°	1874.6	1876.2	1914.0	1931.3	1904.5	1805.4	1531.5	1171.0	820.0	450.2	130.6
50°	1677.9	1670.0	1632.2	1580.3	1493.7	1345.8	1123.8	827.9	484.8	146.4	18.9
52.5°	1273.4	1273.4	1254.5	1227.7	1136.4	993.2	760.2	458.0	170.0	25.2	4.7
55°	549.3	521.0	536.7	566.6	543.0	472.2	355.7	136.9	29.9	4.7	4.7
57.5°	7.9	18.9	28.3	45.6	61.4	74.0	39.3	14.2	4.7	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
62.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	3.1	3.1	3.1	4.7	3.1	4.7	4.7	4.7	4.7	4.7	4.7
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1
2.5°	1285.9	1259.2	1215.1	1081.3	942.8	815.3	724.0	689.4
5°	1441.8	1393.0	1319.0	1045.1	769.7	536.7	404.5	352.6
7.5°	1564.5	1501.6	1394.6	982.2	565.1	286.5	171.6	135.4
10°	1646.4	1577.1	1437.0	889.3	374.6	133.8	64.5	53.5
12.5°	1706.2	1619.6	1452.8	769.7	220.4	61.4	34.6	31.5
15°	1750.3	1638.5	1433.9	623.3	121.2	36.2	28.3	28.3
17.5°	1811.7	1648.0	1388.3	459.6	69.3	26.8	26.8	26.8
20°	1858.9	1648.0	1301.7	313.2	42.5	23.6	23.6	23.6
22.5°	1882.5	1622.8	1196.2	198.3	29.9	22.0	23.6	23.6
25°	1858.9	1561.4	1060.9	121.2	23.6	20.5	22.0	23.6
27.5°	1772.3	1438.6	879.9	77.1	18.9	20.5	22.0	23.6
30°	1627.5	1260.8	675.2	50.4	17.3	20.5	22.0	23.6
32.5°	1422.9	996.3	437.6	33.1	15.7	20.5	22.0	23.6
35°	1111.2	705.1	264.4	20.5	15.7	20.5	23.6	25.2
37.5°	832.6	470.6	143.2	12.6	15.7	20.5	23.6	25.2
40°	577.7	273.9	61.4	11.0	15.7	22.0	25.2	25.2
42.5°	335.3	108.6	15.7	9.4	15.7	22.0	25.2	26.8
45°	122.8	22.0	4.7	9.4	17.3	22.0	25.2	28.3
47.5°	17.3	4.7	4.7	9.4	17.3	22.0	26.8	28.3
50°	4.7	4.7	4.7	9.4	17.3	23.6	28.3	29.9
52.5°	4.7	4.7	4.7	9.4	17.3	23.6	28.3	29.9
55°	4.7	4.7	4.7	9.4	17.3	23.6	28.3	29.9
57.5°	4.7	4.7	4.7	9.4	17.3	23.6	28.3	29.9
60°	4.7	4.7	4.7	9.4	15.7	23.6	28.3	29.9
62.5°	4.7	4.7	4.7	9.4	15.7	22.0	26.8	28.3
65°	4.7	4.7	4.7	9.4	14.2	20.5	26.8	26.8
67.5°	4.7	4.7	4.7	7.9	14.2	20.5	25.2	26.8
70°	4.7	4.7	4.7	7.9	12.6	18.9	23.6	25.2
72.5°	4.7	4.7	4.7	6.3	11.0	17.3	22.0	23.6
75°	3.1	4.7	4.7	6.3	11.0	15.7	20.5	22.0
77.5°	3.1	4.7	4.7	4.7	9.4	12.6	17.3	18.9
80°	3.1	3.1	4.7	4.7	7.9	11.0	14.2	15.7
82.5°	3.1	3.1	3.1	4.7	6.3	7.9	11.0	11.0
85°	3.1	3.1	3.1	3.1	4.7	6.3	7.9	7.9
87.5°	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)