

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: P1319422

Luminaire Tested: LDSQA3D17R509835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509835DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

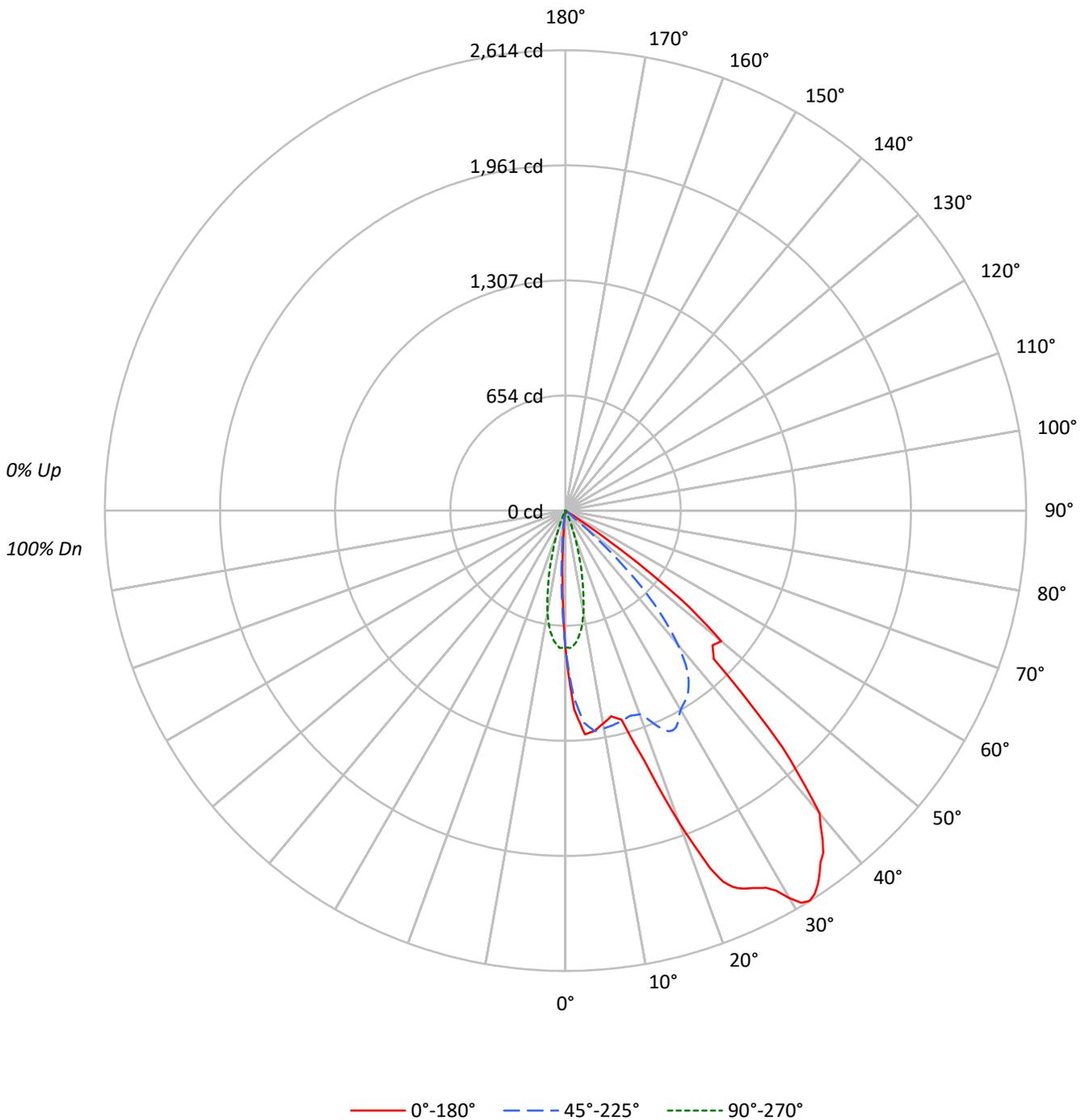
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1251.0 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	133765	133765	133765	133765	133765
5°	220405	209168	128554	38189	19086
10°	214804	219526	103004	1924	2571
15°	219003	220305	61691	1961	660
20°	345199	225557	25420	0	0
25°	450021	262788	6062	0	0
30°	505119	259878	239	0	0
35°	528598	255910	0	0	0
40°	504273	222348	0	0	0
45°	289592	146745	0	0	0
50°	309031	16772	0	0	0
55°	88067	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	2479	1190	0
85°	0	2371	4940	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 319769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	5.2
10°-20°	164.3	13.1
20°-30°	315.7	25.2
30°-40°	367.4	29.4
40°-50°	263.0	21.0
50°-60°	73.2	5.9
60°-70°	0.5	0.0
70°-80°	0.7	0.1
80°-90°	0.9	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°	545.3	43.6
0°-40°	912.7	73.0
0°-60°	1248.9	99.8
0°-90°	1251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	777	777	777	777	777	
5°	1275	1210	744	221	110	117
15°	1228	1236	346	11	4	396
25°	2368	1383	32	0	0	1077
35°	2514	1217	0	0	0	1556
45°	1189	602	0	0	0	1118
55°	293	0	0	0	0	369
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	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°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	1128.9	1135.0	1136.2	1121.5	1124.0	1103.1	1104.3	1089.6	1054.0	930.1	780.4
5°	1274.9	1271.2	1274.9	1270.0	1274.9	1262.6	1255.3	1249.1	1209.9	1034.4	743.6
7.5°	1261.4	1256.5	1263.9	1266.3	1274.9	1271.2	1272.5	1276.1	1262.6	1090.8	681.0
10°	1228.3	1227.1	1230.7	1230.7	1240.5	1241.8	1246.7	1254.0	1255.3	1110.5	589.0
12.5°	1196.4	1192.7	1192.7	1191.5	1196.4	1195.1	1207.4	1224.6	1247.9	1098.2	462.6
15°	1228.3	1224.6	1219.7	1206.2	1196.4	1185.3	1186.6	1197.6	1235.6	1066.3	346.0
17.5°	1486.0	1466.3	1441.8	1398.8	1353.4	1274.9	1228.3	1198.8	1220.9	1017.2	230.7
20°	1883.5	1874.9	1835.7	1765.7	1692.1	1576.8	1433.2	1317.9	1230.7	955.9	138.7
21°	2034.5	2029.5	1987.8	1922.8	1839.3	1699.5	1552.2	1413.6	1250.4	930.1	109.2
22°	2189.1	2170.7	2137.5	2065.1	1978.0	1838.1	1673.7	1520.3	1289.6	897.0	83.4
23°	2288.5	2277.4	2241.8	2184.2	2100.7	1964.5	1796.4	1629.5	1327.7	860.2	62.6
24°	2340.0	2336.3	2308.1	2267.6	2196.4	2057.8	1898.2	1726.5	1359.6	817.2	45.4
25°	2368.2	2355.9	2338.8	2309.3	2255.3	2135.1	1992.7	1811.1	1382.9	774.3	31.9
26°	2385.4	2378.0	2351.0	2325.3	2273.7	2175.6	2054.1	1862.7	1389.0	721.5	22.1
27°	2405.0	2387.8	2362.1	2331.4	2273.7	2187.8	2077.4	1884.8	1381.7	667.5	14.7
28°	2425.9	2413.6	2378.0	2338.8	2270.0	2187.8	2068.8	1855.3	1359.6	616.0	8.6
29°	2466.4	2450.4	2406.2	2348.6	2271.3	2185.4	2035.7	1793.9	1330.1	558.3	4.9
30°	2540.0	2506.9	2452.9	2371.9	2279.9	2180.5	1980.5	1701.9	1306.8	493.3	1.2
31°	2597.7	2579.3	2516.7	2414.8	2304.4	2167.0	1915.4	1611.1	1290.9	436.8	0.0
32°	2613.6	2600.1	2554.7	2459.0	2346.1	2155.9	1841.8	1522.8	1278.6	374.3	0.0
33°	2595.2	2586.6	2538.8	2451.6	2357.2	2141.2	1757.1	1435.7	1265.1	317.8	0.0
34°	2560.9	2549.8	2508.1	2419.7	2328.9	2077.4	1676.2	1369.4	1245.5	265.0	0.0
35°	2514.2	2505.6	2462.7	2375.6	2277.4	1978.0	1595.2	1325.2	1217.2	212.3	0.0
36°	2463.9	2461.5	2406.2	2320.4	2211.1	1882.3	1497.0	1292.1	1189.0	168.1	0.0
37°	2430.8	2418.5	2358.4	2273.7	2132.6	1770.6	1418.5	1281.0	1149.7	130.1	0.0
38°	2370.7	2373.1	2304.4	2227.1	2052.9	1673.7	1354.7	1272.5	1105.6	94.5	0.0
39°	2299.5	2300.7	2229.6	2163.3	1958.4	1571.9	1301.9	1263.9	1050.4	60.1	0.0
40°	2243.0	2241.8	2160.8	2089.7	1856.5	1476.1	1273.7	1251.6	989.0	34.4	0.0
42.5°	1823.4	1830.8	1840.6	1870.0	1617.3	1308.0	1246.7	1182.9	814.8	0.0	0.0
45°	1189.0	1217.2	1224.6	1312.9	1311.7	1239.3	1182.9	1060.2	602.5	0.0	0.0
47.5°	1131.3	1139.9	1155.9	1190.2	1208.6	1173.1	1057.7	885.9	328.8	0.0	0.0
50°	1153.4	1152.2	1155.9	1155.9	1122.8	1030.7	867.5	654.0	62.6	0.0	0.0
52.5°	828.3	858.9	892.1	906.8	863.8	766.9	633.2	384.1	0.0	0.0	0.0
55°	293.3	283.4	276.1	301.9	295.7	332.5	274.9	89.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	4.9	11.0	14.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5



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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	1.2	1.2	1.2	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.5
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°	776.7	776.7	776.7	776.7
2.5°	622.1	477.3	386.5	392.7
5°	436.8	220.9	136.2	110.4
7.5°	261.4	67.5	13.5	11.0
10°	122.7	11.0	12.3	14.7
12.5°	36.8	9.8	13.5	12.3
15°	9.8	11.0	6.1	3.7
17.5°	3.7	4.9	0.0	0.0
20°	2.5	0.0	0.0	0.0
21°	2.5	0.0	0.0	0.0
22°	1.2	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°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	1.2	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.2	1.2	0.0	0.0
85°	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)