

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: P1312761

Luminaire Tested: LDSQA3D17R509050DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312761
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: LDSQA3D17R509050DE010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

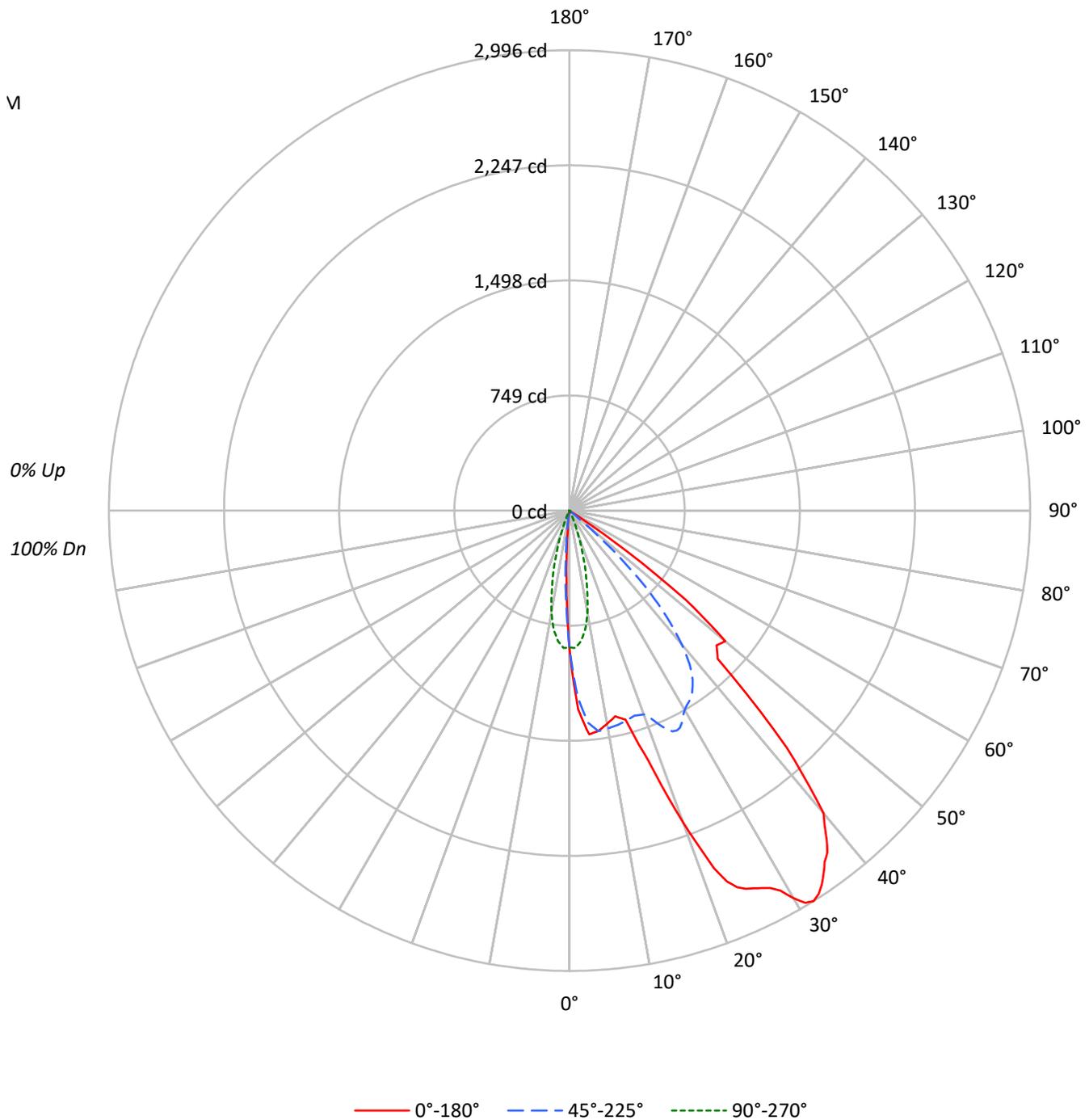
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1434.0 lumens
Efficiency: N/A
Efficacy: 67.6 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): 21.2
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

TEST NUMBER: P1312761
CATALOG NUMBER: LDSQA3D17R509050DE010 3LSQCA30R 1MMS

Luminous Intensity Polar Plot





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CATALOG NUMBER: LDSQA3D17R509050DE010 3LSQCA30R 1MMS

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	97	96	96	94	93	96	94	93	91	
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82	86	84	82	
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74	78	75	74	
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	72	69	66	
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	66	62	59	
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	60	56	54	
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	55	50	48	
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	54	49	46	
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	50	45	42	
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	46	42	38	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	153330	153330	153330	153330	153330
5°	252648	239768	147363	43773	21887
10°	246230	251634	118061	2221	2955
15°	251044	252541	70713	2264	749
20°	395710	258565	29122	0	0
25°	515846	301230	6955	0	0
30°	579017	297901	278	0	0
35°	605926	293355	0	0	0
40°	578059	254879	0	0	0
45°	331947	168202	0	0	0
50°	354258	19211	0	0	0
55°	100948	0	0	0	0
60°	0	0	482	0	0
65°	0	571	571	0	0
70°	0	705	705	0	0
75°	0	932	932	0	0
80°	0	1389	2777	1389	0
85°	0	2766	5533	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 366557 cd/sqm



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CATALOG NUMBER: LDSQA3D17R509050DE010 3LSQCA30R 1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	5.2
10°-20°	188.4	13.1
20°-30°	361.9	25.2
30°-40°	421.2	29.4
40°-50°	301.4	21.0
50°-60°	83.9	5.9
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	1.0	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°	625.0	43.6
0°-40°	1046.2	73.0
0°-60°	1431.5	99.8
0°-90°	1434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1434.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	890	890	890	890	890	
5°	1461	1387	852	253	127	134
15°	1408	1416	397	13	4	454
25°	2715	1585	37	0	0	1235
35°	2882	1395	0	0	0	1783
45°	1363	691	0	0	0	1282
55°	336	0	0	0	0	423
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	3	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1312761

CATALOG NUMBER: LDSQA3D17R509050DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3
2.5°	1294.0	1301.1	1302.5	1285.6	1288.4	1264.5	1265.9	1249.0	1208.2	1066.2	894.6
5°	1461.4	1457.2	1461.4	1455.8	1461.4	1447.3	1438.9	1431.9	1386.9	1185.7	852.4
7.5°	1445.9	1440.3	1448.7	1451.6	1461.4	1457.2	1458.6	1462.8	1447.3	1250.4	780.6
10°	1408.0	1406.5	1410.8	1410.8	1422.0	1423.4	1429.1	1437.5	1438.9	1272.9	675.1
12.5°	1371.4	1367.2	1367.2	1365.8	1371.4	1370.0	1384.0	1403.7	1430.5	1258.9	530.3
15°	1408.0	1403.7	1398.1	1382.6	1371.4	1358.7	1360.1	1372.8	1416.4	1222.3	396.6
17.5°	1703.3	1680.8	1652.7	1603.5	1551.4	1461.4	1408.0	1374.2	1399.5	1166.0	264.4
20°	2159.1	2149.2	2104.2	2024.0	1939.6	1807.4	1642.8	1510.6	1410.8	1095.7	158.9
21°	2332.1	2326.4	2278.6	2204.1	2108.4	1948.1	1779.3	1620.3	1433.3	1066.2	125.2
22°	2509.3	2488.2	2450.2	2367.2	2267.4	2107.0	1918.5	1742.7	1478.3	1028.2	95.6
23°	2623.2	2610.6	2569.8	2503.7	2408.0	2251.9	2059.2	1867.9	1521.9	986.0	71.7
24°	2682.3	2678.1	2645.7	2599.3	2517.7	2358.8	2175.9	1979.0	1558.5	936.8	52.0
25°	2714.6	2700.6	2680.9	2647.1	2585.2	2447.4	2284.2	2076.1	1585.2	887.5	36.6
26°	2734.3	2725.9	2694.9	2665.4	2606.3	2493.8	2354.6	2135.1	1592.2	827.1	25.3
27°	2756.8	2737.1	2707.6	2672.4	2606.3	2507.9	2381.3	2160.5	1583.8	765.2	16.9
28°	2780.7	2766.7	2725.9	2680.9	2602.1	2507.9	2371.4	2126.7	1558.5	706.1	9.8
29°	2827.2	2808.9	2758.2	2692.1	2603.5	2505.1	2333.5	2056.4	1524.7	640.0	5.6
30°	2911.6	2873.6	2811.7	2718.9	2613.4	2499.4	2270.2	1950.9	1498.0	565.4	1.4
31°	2977.7	2956.6	2884.8	2768.1	2641.5	2484.0	2195.6	1846.8	1479.7	500.7	0.0
32°	2995.9	2980.5	2928.4	2818.7	2689.3	2471.3	2111.2	1745.5	1465.6	429.0	0.0
33°	2974.8	2965.0	2910.1	2810.3	2702.0	2454.4	2014.2	1645.7	1450.2	364.3	0.0
34°	2935.5	2922.8	2875.0	2773.7	2669.6	2381.3	1921.3	1569.7	1427.6	303.8	0.0
35°	2882.0	2872.2	2822.9	2723.1	2610.6	2267.4	1828.5	1519.1	1395.3	243.3	0.0
36°	2824.3	2821.5	2758.2	2659.8	2534.6	2157.6	1716.0	1481.1	1362.9	192.7	0.0
37°	2786.4	2772.3	2703.4	2606.3	2444.6	2029.6	1626.0	1468.4	1317.9	149.1	0.0
38°	2717.5	2720.3	2641.5	2552.9	2353.2	1918.5	1552.8	1458.6	1267.3	108.3	0.0
39°	2635.9	2637.3	2555.7	2479.7	2244.9	1801.8	1492.3	1448.7	1204.0	68.9	0.0
40°	2571.2	2569.8	2476.9	2395.4	2128.1	1692.1	1460.0	1434.7	1133.7	39.4	0.0
42.5°	2090.1	2098.6	2109.8	2143.6	1853.8	1499.4	1429.1	1355.9	933.9	0.0	0.0
45°	1362.9	1395.3	1403.7	1505.0	1503.6	1420.6	1355.9	1215.3	690.6	0.0	0.0
47.5°	1296.8	1306.7	1325.0	1364.4	1385.4	1344.7	1212.4	1015.5	377.0	0.0	0.0
50°	1322.2	1320.7	1325.0	1325.0	1287.0	1181.5	994.4	749.7	71.7	0.0	0.0
52.5°	949.4	984.6	1022.6	1039.4	990.2	879.1	725.8	440.2	0.0	0.0	0.0
55°	336.2	324.9	316.5	346.0	339.0	381.2	315.1	102.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	5.6	12.7	16.9	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	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8



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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	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
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°	890.3	890.3	890.3	890.3
2.5°	713.1	547.1	443.1	450.1
5°	500.7	253.2	156.1	126.6
7.5°	299.6	77.4	15.5	12.7
10°	140.7	12.7	14.1	16.9
12.5°	42.2	11.3	15.5	14.1
15°	11.3	12.7	7.0	4.2
17.5°	4.2	5.6	0.0	0.0
20°	2.8	0.0	0.0	0.0
21°	2.8	0.0	0.0	0.0
22°	1.4	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°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	1.4	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	1.4	0.0	0.0
85°	1.4	1.4	0.0	0.0
87.5°	1.4	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)