

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: P1309447

Luminaire Tested: LDSQA3D17R509030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309447
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: LDSQA3D17R509030DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

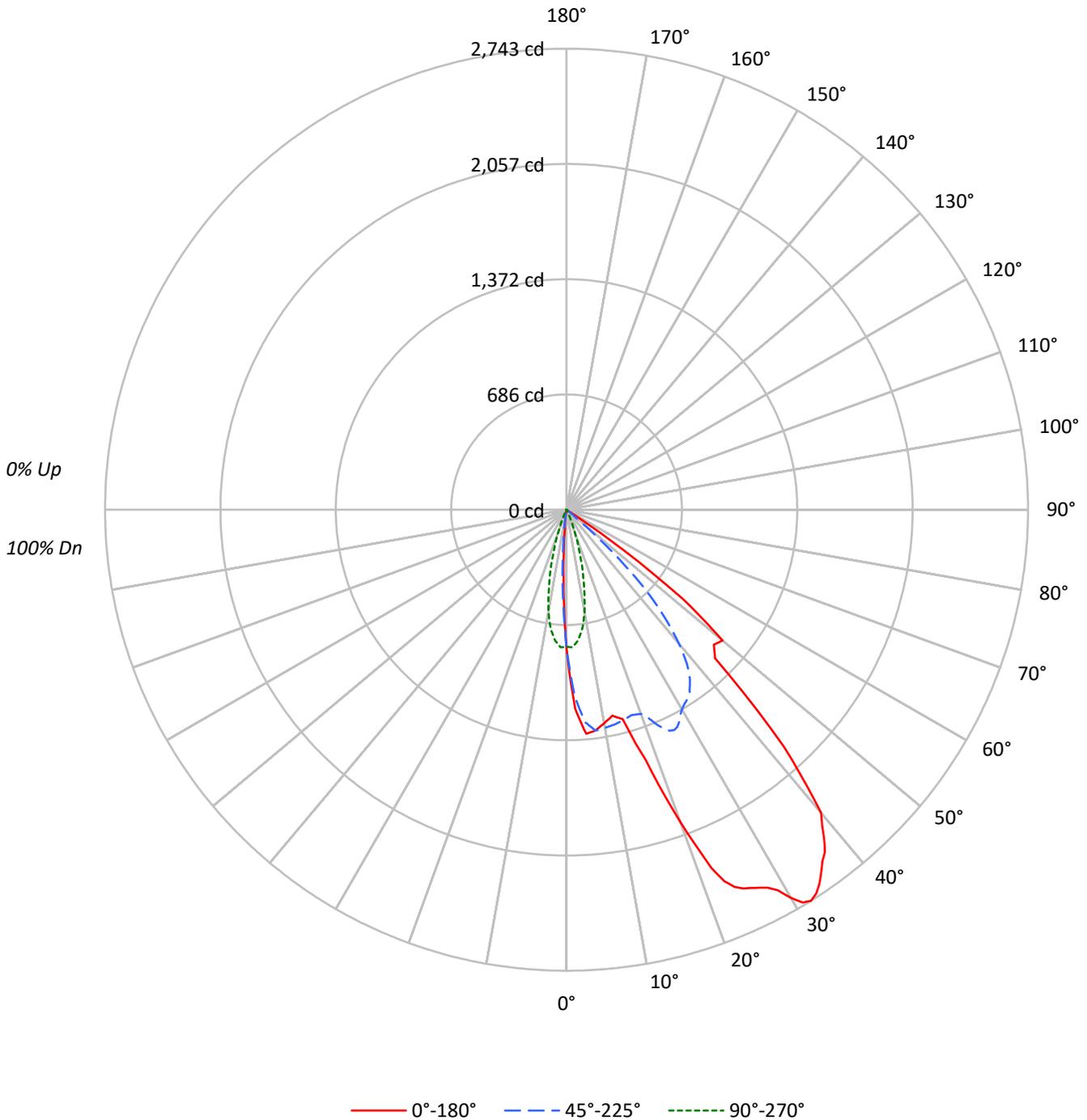
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1313.0 lumens
Efficiency: N/A
Efficacy: 61.9 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 (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				
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	99	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	51	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	47	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	44	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	140396	140396	140396	140396	140396
5°	231331	219524	134916	40074	20037
10°	225455	230404	108110	2029	2711
15°	229862	231235	64758	2068	695
20°	362317	236737	26667	0	0
25°	472330	275805	6366	0	0
30°	530156	272764	259	0	0
35°	554795	268609	0	0	0
40°	529273	233364	0	0	0
45°	303938	154003	0	0	0
50°	324357	17603	0	0	0
55°	92420	0	0	0	0
60°	0	0	448	0	0
65°	0	530	530	0	0
70°	0	655	655	0	0
75°	0	865	865	0	0
80°	0	1289	2579	1289	0
85°	0	2569	5138	2569	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 335625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	5.2
10°-20°	172.5	13.1
20°-30°	331.3	25.2
30°-40°	385.6	29.4
40°-50°	276.0	21.0
50°-60°	76.8	5.9
60°-70°	0.5	0.0
70°-80°	0.8	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°	572.3	43.6
0°-40°	957.9	73.0
0°-60°	1310.8	99.8
0°-90°	1313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	815	815	815	815	815	
5°	1338	1270	780	232	116	123
15°	1289	1297	363	12	4	416
25°	2486	1451	34	0	0	1131
35°	2639	1278	0	0	0	1633
45°	1248	632	0	0	0	1174
55°	308	0	0	0	0	388
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2	815.2
2.5°	1184.8	1191.3	1192.6	1177.1	1179.7	1157.8	1159.1	1143.6	1106.3	976.2	819.1
5°	1338.1	1334.2	1338.1	1332.9	1338.1	1325.2	1317.5	1311.0	1269.8	1085.7	780.4
7.5°	1323.9	1318.8	1326.5	1329.1	1338.1	1334.2	1335.5	1339.4	1325.2	1144.9	714.8
10°	1289.2	1287.9	1291.7	1291.7	1302.0	1303.3	1308.5	1316.2	1317.5	1165.5	618.2
12.5°	1255.7	1251.8	1251.8	1250.5	1255.7	1254.4	1267.3	1285.3	1309.8	1152.6	485.5
15°	1289.2	1285.3	1280.1	1266.0	1255.7	1244.1	1245.4	1257.0	1296.9	1119.2	363.2
17.5°	1559.6	1539.0	1513.2	1468.2	1420.5	1338.1	1289.2	1258.2	1281.4	1067.6	242.1
20°	1976.9	1967.9	1926.6	1853.2	1776.0	1654.9	1504.2	1383.2	1291.7	1003.2	145.5
21°	2135.3	2130.1	2086.3	2018.1	1930.5	1783.7	1629.1	1483.6	1312.3	976.2	114.6
22°	2297.6	2278.2	2243.5	2167.5	2076.0	1929.2	1756.6	1595.7	1353.5	941.4	87.6
23°	2401.9	2390.3	2352.9	2292.4	2204.8	2061.9	1885.4	1710.3	1393.5	902.8	65.7
24°	2456.0	2452.1	2422.5	2380.0	2305.3	2159.7	1992.3	1812.0	1427.0	857.7	47.7
25°	2485.6	2472.7	2454.7	2423.8	2367.1	2240.9	2091.5	1900.9	1451.4	812.6	33.5
26°	2503.6	2495.9	2467.5	2440.5	2386.4	2283.4	2155.9	1955.0	1457.9	757.3	23.2
27°	2524.2	2506.2	2479.1	2446.9	2386.4	2296.3	2180.4	1978.2	1450.1	700.6	15.5
28°	2546.1	2533.2	2495.9	2454.7	2382.5	2296.3	2171.3	1947.3	1427.0	646.5	9.0
29°	2588.6	2571.9	2525.5	2465.0	2383.8	2293.7	2136.6	1882.9	1396.0	586.0	5.2
30°	2665.9	2631.1	2574.4	2489.4	2392.9	2288.5	2078.6	1786.3	1371.6	517.7	1.3
31°	2726.4	2707.1	2641.4	2534.5	2418.6	2274.4	2010.4	1691.0	1354.8	458.5	0.0
32°	2743.2	2729.0	2681.3	2580.9	2462.4	2262.8	1933.1	1598.2	1342.0	392.8	0.0
33°	2723.8	2714.8	2664.6	2573.2	2474.0	2247.3	1844.2	1506.8	1327.8	333.6	0.0
34°	2687.8	2676.2	2632.4	2539.7	2444.4	2180.4	1759.2	1437.3	1307.2	278.2	0.0
35°	2638.8	2629.8	2584.7	2493.3	2390.3	2076.0	1674.2	1390.9	1277.6	222.8	0.0
36°	2586.0	2583.5	2525.5	2435.4	2320.7	1975.6	1571.2	1356.1	1247.9	176.4	0.0
37°	2551.3	2538.4	2475.3	2386.4	2238.3	1858.4	1488.8	1344.5	1206.7	136.5	0.0
38°	2488.2	2490.7	2418.6	2337.5	2154.6	1756.6	1421.8	1335.5	1160.4	99.2	0.0
39°	2413.5	2414.7	2340.0	2270.5	2055.4	1649.8	1366.4	1326.5	1102.4	63.1	0.0
40°	2354.2	2352.9	2267.9	2193.2	1948.5	1549.3	1336.8	1313.6	1038.0	36.1	0.0
42.5°	1913.8	1921.5	1931.8	1962.7	1697.4	1372.9	1308.5	1241.5	855.1	0.0	0.0
45°	1247.9	1277.6	1285.3	1378.0	1376.7	1300.7	1241.5	1112.7	632.3	0.0	0.0
47.5°	1187.4	1196.4	1213.2	1249.2	1268.5	1231.2	1110.1	929.8	345.1	0.0	0.0
50°	1210.6	1209.3	1213.2	1213.2	1178.4	1081.8	910.5	686.4	65.7	0.0	0.0
52.5°	869.3	901.5	936.3	951.7	906.7	804.9	664.5	403.1	0.0	0.0	0.0
55°	307.8	297.5	289.8	316.8	310.4	349.0	288.5	94.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.3	5.2	11.6	15.5	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	1.3	1.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	2.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	2.6



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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	1.3	1.3	1.3	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	2.6
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°	815.2	815.2	815.2	815.2
2.5°	652.9	501.0	405.7	412.1
5°	458.5	231.8	143.0	115.9
7.5°	274.3	70.8	14.2	11.6
10°	128.8	11.6	12.9	15.5
12.5°	38.6	10.3	14.2	12.9
15°	10.3	11.6	6.4	3.9
17.5°	3.9	5.2	0.0	0.0
20°	2.6	0.0	0.0	0.0
21°	2.6	0.0	0.0	0.0
22°	1.3	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°	1.3	0.0	0.0	0.0
67.5°	1.3	0.0	0.0	0.0
70°	1.3	0.0	0.0	0.0
72.5°	1.3	0.0	0.0	0.0
75°	1.3	0.0	0.0	0.0
77.5°	1.3	0.0	0.0	0.0
80°	1.3	1.3	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.3	1.3	0.0	0.0
85°	1.3	1.3	0.0	0.0
87.5°	1.3	1.3	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)