

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: P1310400

Luminaire Tested: LDSQA3D13R459035DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310400  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459035DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

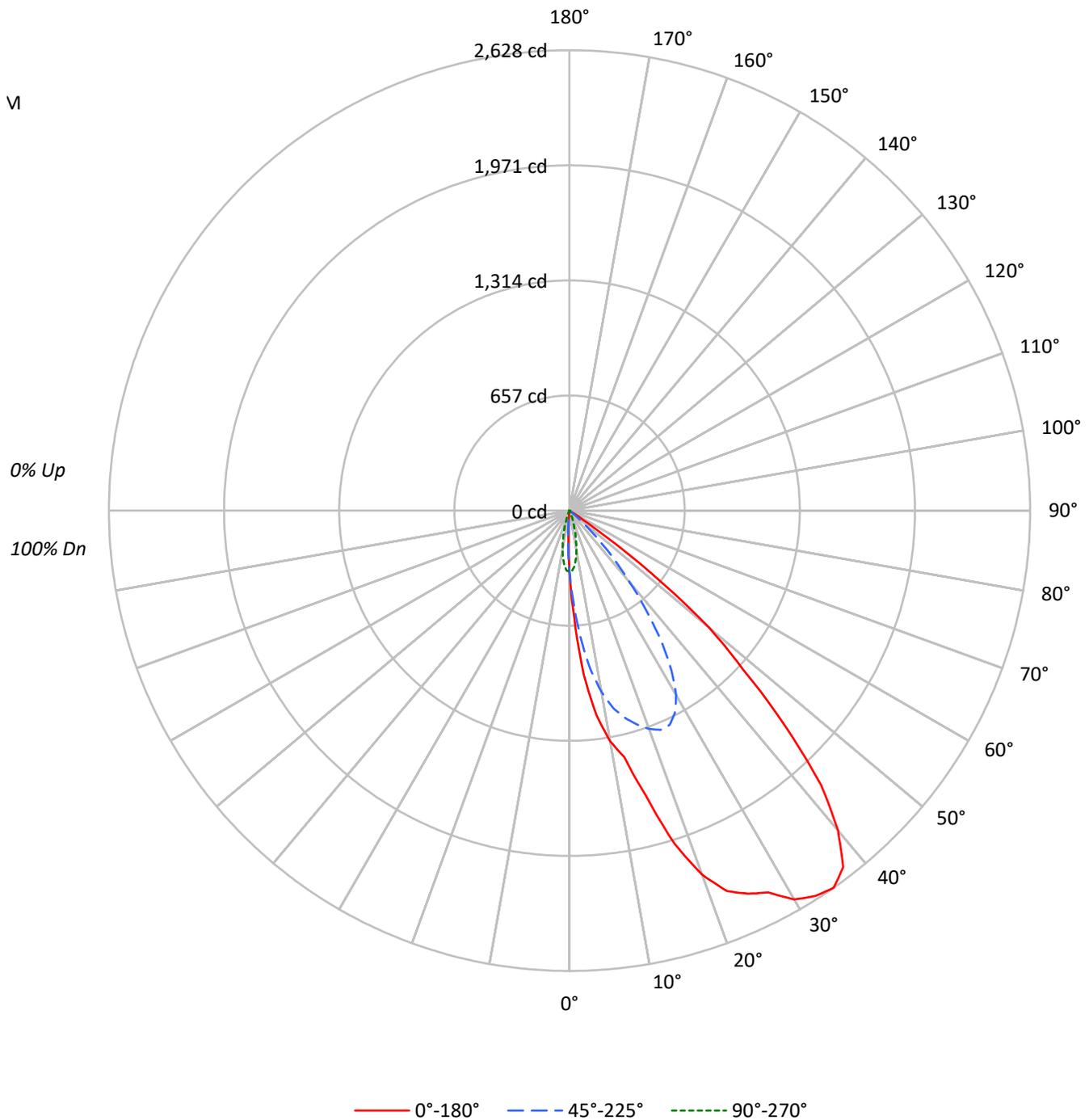
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1114.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	59589	59589	59589	59589	59589
5°	162663	125165	55149	11064	4149
10°	233621	183606	39873	1049	874
15°	300771	218397	21217	357	0
20°	405387	243005	8064	0	0
25°	458515	256707	2090	0	0
30°	509653	242000	199	0	0
35°	552482	192984	0	0	0
40°	535500	121178	0	0	0
45°	424500	57724	0	0	0
50°	277818	7234	0	0	0
55°	47742	0	0	0	0
60°	0	0	344	0	0
65°	0	408	408	0	0
70°	0	504	1007	0	0
75°	0	665	1331	0	0
80°	0	992	1984	992	0
85°	0	1976	3952	1976	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 424500 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.2	3.7
10°-20°	158.7	14.2
20°-30°	297.1	26.7
30°-40°	346.8	31.1
40°-50°	226.1	20.3
50°-60°	42.0	3.8
60°-70°	0.4	0.0
70°-80°	0.8	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°	497.0	44.6
0°-40°	843.7	75.7
0°-60°	1111.9	99.8
0°-90°	1114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	346	346	346	346	346	
5°	941	724	319	64	24	101
15°	1687	1225	119	2	0	503
25°	2413	1351	11	0	0	1116
35°	2628	918	0	0	0	1612
45°	1743	237	0	0	0	1325
55°	159	0	0	0	0	276
65°	0	1	1	0	0	0
75°	0	1	2	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°	40°	45°	50°
0°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
2.5°	610.0	615.0	605.0	601.0	588.0	591.0	569.0	560.0	546.0	523.0	512.0
5°	940.9	931.9	923.9	906.9	896.9	869.9	839.9	806.0	765.0	724.0	677.0
7.5°	1176.9	1169.9	1166.9	1152.9	1132.9	1104.9	1065.9	1022.9	969.9	914.9	843.9
10°	1335.9	1328.9	1316.9	1302.9	1286.9	1263.9	1225.9	1178.9	1120.9	1049.9	966.9
12.5°	1439.9	1438.9	1418.9	1402.9	1382.9	1362.9	1323.9	1285.9	1228.9	1155.9	1061.9
15°	1686.9	1670.9	1644.9	1599.9	1543.9	1491.9	1428.9	1368.9	1306.9	1224.9	1119.9
17.5°	1994.9	1976.9	1932.9	1875.9	1785.9	1686.9	1578.9	1483.9	1390.9	1279.9	1155.9
20°	2211.9	2204.9	2167.9	2101.9	2005.9	1874.9	1732.9	1598.9	1467.9	1325.9	1172.9
22.5°	2350.9	2346.9	2331.9	2286.9	2188.9	2041.9	1858.9	1678.9	1520.9	1354.9	1167.9
25°	2412.9	2417.9	2419.9	2397.9	2318.9	2168.9	1951.9	1739.9	1550.9	1350.9	1129.9
27.5°	2456.8	2456.8	2464.8	2454.8	2374.9	2216.9	1987.9	1760.9	1540.9	1301.9	1049.9
30°	2562.8	2560.8	2565.8	2538.8	2427.9	2231.9	1971.9	1726.9	1483.9	1216.9	934.9
32.5°	2608.8	2610.8	2609.8	2566.8	2437.9	2221.9	1932.9	1661.9	1378.9	1083.9	783.0
35°	2627.8	2618.8	2581.8	2483.8	2320.9	2088.9	1822.9	1551.9	1231.9	917.9	618.0
37.5°	2564.8	2538.8	2456.8	2322.9	2123.9	1900.9	1640.9	1354.9	1036.9	720.0	465.0
40°	2381.9	2347.9	2244.9	2082.9	1900.9	1699.9	1425.9	1123.9	811.0	539.0	326.0
42.5°	2122.9	2083.9	1972.9	1831.9	1665.9	1454.9	1181.9	879.9	594.0	372.0	207.0
45°	1742.9	1720.9	1656.9	1537.9	1374.9	1155.9	905.9	642.0	411.0	237.0	106.0
47.5°	1347.9	1319.9	1273.9	1191.9	1055.9	847.9	634.0	436.0	264.0	117.0	22.0
50°	1036.9	1003.9	947.9	856.9	715.0	566.0	411.0	272.0	134.0	27.0	1.0
52.5°	597.0	604.0	577.0	519.0	440.0	339.0	238.0	137.0	30.0	1.0	0.0
55°	159.0	172.0	168.0	181.0	159.0	134.0	99.0	26.0	2.0	0.0	0.0
57.5°	0.0	0.0	1.0	2.0	6.0	9.0	3.0	1.0	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
2.5°	487.0	466.0	440.0	344.0	259.0	186.0	145.0	134.0
5°	632.0	581.0	515.0	319.0	160.0	64.0	29.0	24.0
7.5°	769.0	694.0	575.0	279.0	81.0	16.0	8.0	7.0
10°	874.9	774.0	619.0	228.0	30.0	6.0	5.0	5.0
12.5°	947.9	824.9	635.0	173.0	11.0	3.0	3.0	2.0
15°	989.9	844.9	620.0	119.0	4.0	2.0	0.0	0.0
17.5°	1002.9	836.9	580.0	75.0	1.0	0.0	0.0	0.0
20°	991.9	798.0	517.0	44.0	0.0	0.0	0.0	0.0
22.5°	955.9	737.0	441.0	24.0	0.0	0.0	0.0	0.0
25°	888.9	651.0	352.0	11.0	0.0	0.0	0.0	0.0
27.5°	780.0	540.0	265.0	4.0	0.0	0.0	0.0	0.0
30°	656.0	421.0	188.0	1.0	0.0	0.0	0.0	0.0
32.5°	512.0	310.0	121.0	0.0	0.0	0.0	0.0	0.0
35°	385.0	217.0	72.0	0.0	0.0	0.0	0.0	0.0
37.5°	268.0	137.0	38.0	0.0	0.0	0.0	0.0	0.0
40°	167.0	74.0	13.0	0.0	0.0	0.0	0.0	0.0
42.5°	93.0	26.0	1.0	0.0	0.0	0.0	0.0	0.0
45°	22.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
60°	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
62.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
65°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
67.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
70°	1.0	1.0	1.0	2.0	1.0	0.0	0.0	0.0
72.5°	1.0	1.0	2.0	2.0	1.0	0.0	0.0	0.0
75°	1.0	1.0	2.0	2.0	1.0	0.0	0.0	0.0
77.5°	1.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0
80°	1.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0
82.5°	1.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0
85°	1.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0
87.5°	1.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)