

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: P1316619

Luminaire Tested: LDSQA3D13R409740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R409740DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

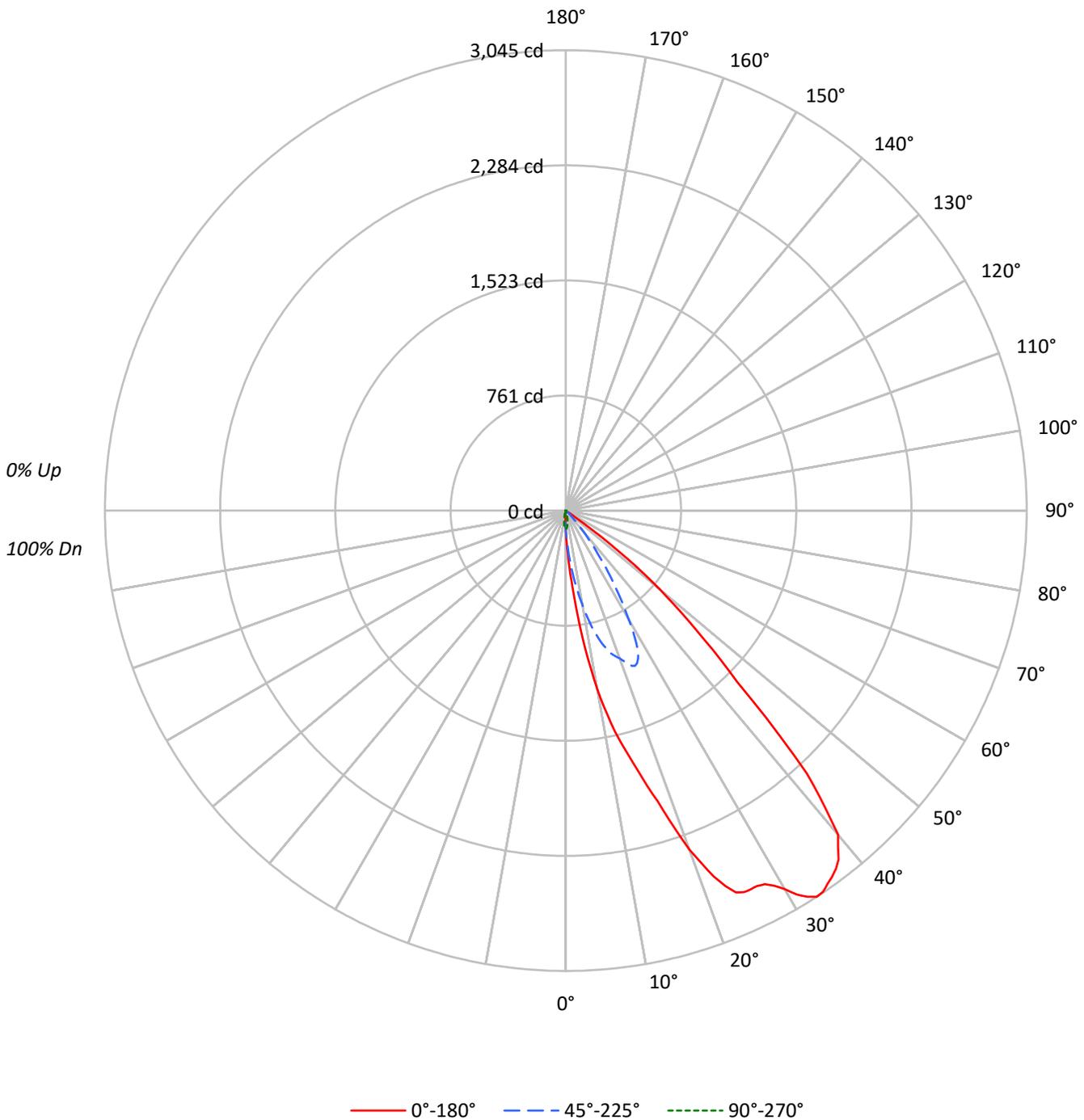
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1022.0 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
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 (A<sub>in</sub>): 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	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83				83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74				74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67				67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60				60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44				44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40				40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°	135°	180°
0°	20581	20581	20581	20581	20581
5°	87374	59557	18066	3250	1625
10°	210030	110769	11192	332	0
15°	309115	160932	4707	0	0
20°	436947	190790	1723	0	0
25°	529224	211766	0	0	0
30°	574622	165655	0	0	0
35°	633615	96965	0	0	0
40°	628891	39366	0	0	0
45°	389476	11472	0	0	0
50°	216863	241	0	0	0
55°	21198	0	0	0	0
60°	0	0	310	0	0
65°	0	0	367	0	0
70°	0	453	957	0	0
75°	0	599	1264	0	0
80°	0	893	1884	0	0
85°	0	1778	3754	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 391303 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.4	2.2
10°-20°	131.7	12.9
20°-30°	300.7	29.4
30°-40°	355.1	34.7
40°-50°	189.7	18.6
50°-60°	20.6	2.0
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.7	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°	454.8	44.5
0°-40°	809.9	79.2
0°-60°	1020.2	99.8
0°-90°	1022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	120	120	120	120	120	
5°	505	344	104	19	9	71
15°	1734	903	26	0	0	515
25°	2785	1114	0	0	0	1265
35°	3014	461	0	0	0	1862
45°	1599	47	0	0	0	1318
55°	71	0	0	0	0	198
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	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°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5
2.5°	278.6	272.9	276.7	269.2	269.2	252.2	253.2	239.1	218.4	166.6	118.6
5°	505.4	528.0	510.1	486.6	473.4	456.5	433.9	410.4	344.5	208.0	104.5
7.5°	846.1	844.3	814.1	788.7	759.6	714.4	672.0	614.6	490.4	238.1	86.6
10°	1201.0	1194.4	1160.5	1138.9	1083.3	1018.4	931.8	839.6	633.4	248.5	64.0
12.5°	1496.5	1488.0	1459.8	1423.1	1361.9	1280.0	1186.9	1065.4	784.0	237.2	41.4
15°	1733.7	1731.8	1704.5	1654.6	1590.6	1510.6	1405.2	1259.3	902.6	208.0	26.4
17.5°	2015.1	2026.4	1977.5	1923.8	1831.6	1719.6	1590.6	1424.0	990.1	172.2	16.9
20°	2384.1	2368.1	2322.9	2244.8	2156.3	2021.7	1839.1	1601.0	1041.0	133.7	9.4
21°	2497.0	2490.4	2443.4	2370.9	2273.0	2136.5	1948.3	1691.3	1064.5	119.5	7.5
22°	2611.8	2600.5	2563.8	2493.2	2401.0	2246.7	2039.6	1784.5	1094.6	104.5	4.7
23°	2697.5	2692.8	2664.5	2594.9	2499.8	2350.2	2138.4	1871.1	1115.3	90.4	2.8
24°	2763.4	2757.7	2729.5	2676.8	2594.9	2438.7	2238.2	1964.3	1123.8	78.1	0.9
25°	2785.0	2787.8	2770.9	2729.5	2660.8	2504.5	2312.5	2037.7	1114.4	66.8	0.0
26°	2786.0	2794.4	2782.2	2758.7	2702.2	2557.3	2382.2	2081.0	1089.9	56.5	0.0
27°	2786.0	2794.4	2782.2	2764.3	2708.8	2587.4	2419.8	2085.7	1052.3	48.0	0.0
28°	2799.1	2803.8	2787.8	2766.2	2706.0	2596.8	2430.2	2057.5	992.0	41.4	0.0
29°	2835.8	2831.1	2804.8	2775.6	2703.1	2596.8	2399.1	2003.8	916.7	34.8	0.0
30°	2889.5	2889.5	2848.1	2802.0	2716.3	2595.8	2349.2	1906.9	833.0	28.2	0.0
31°	2962.0	2955.4	2914.0	2845.3	2744.6	2595.8	2275.8	1799.6	755.8	24.5	0.0
32°	3010.9	3007.1	2967.6	2886.7	2790.7	2595.8	2196.8	1681.0	672.0	19.8	0.0
33°	3044.8	3037.3	2992.1	2908.3	2818.9	2582.7	2108.3	1553.9	596.7	16.0	0.0
34°	3040.1	3038.2	2991.1	2904.6	2813.3	2528.1	2005.7	1412.7	527.1	13.2	0.0
35°	3013.7	3013.7	2956.3	2866.9	2772.8	2448.1	1904.1	1292.3	461.2	9.4	0.0
36°	2994.0	2986.4	2921.5	2821.7	2705.0	2322.0	1753.5	1170.9	390.6	7.5	0.0
37°	2964.8	2950.7	2878.2	2770.9	2609.0	2185.5	1595.3	1062.6	330.4	4.7	0.0
38°	2927.1	2905.5	2817.0	2711.6	2503.6	2028.3	1434.4	941.2	274.8	2.8	0.0
39°	2858.4	2840.6	2749.3	2635.4	2377.5	1862.6	1278.2	827.3	222.1	0.9	0.0
40°	2797.3	2766.2	2662.7	2531.8	2229.7	1675.3	1122.9	715.3	175.1	0.0	0.0
42.5°	2358.7	2325.7	2302.2	2172.3	1776.1	1202.9	784.0	458.4	91.3	0.0	0.0
45°	1599.1	1606.6	1533.2	1445.7	1171.8	784.0	490.4	255.1	47.1	0.0	0.0
47.5°	1166.2	1146.4	1046.6	881.0	687.1	458.4	256.0	123.3	18.8	0.0	0.0
50°	809.4	771.8	681.4	557.2	373.7	218.4	112.9	57.4	0.9	0.0	0.0
52.5°	439.5	413.2	350.1	254.1	155.3	83.8	45.2	23.5	0.0	0.0	0.0
55°	70.6	48.9	50.8	43.3	33.9	24.5	14.1	2.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	1.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	1.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.9	1.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.9	1.9



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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	0.9	0.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.9	1.9
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°	119.5	119.5	119.5	119.5
2.5°	80.0	54.6	41.4	35.8
5°	46.1	18.8	10.4	9.4
7.5°	22.6	6.6	3.8	3.8
10°	9.4	1.9	0.0	0.0
12.5°	2.8	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	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°	0.9	0.0	0.0	0.0
67.5°	0.9	0.0	0.0	0.0
70°	0.9	0.0	0.0	0.0
72.5°	0.9	0.0	0.0	0.0
75°	0.9	0.0	0.0	0.0
77.5°	0.9	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.9	0.0	0.0	0.0
85°	0.9	0.0	0.0	0.0
87.5°	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)