

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: P1311509

Luminaire Tested: LDSQA3D13R409040DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311509  
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: LDSQA3D13R409040DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

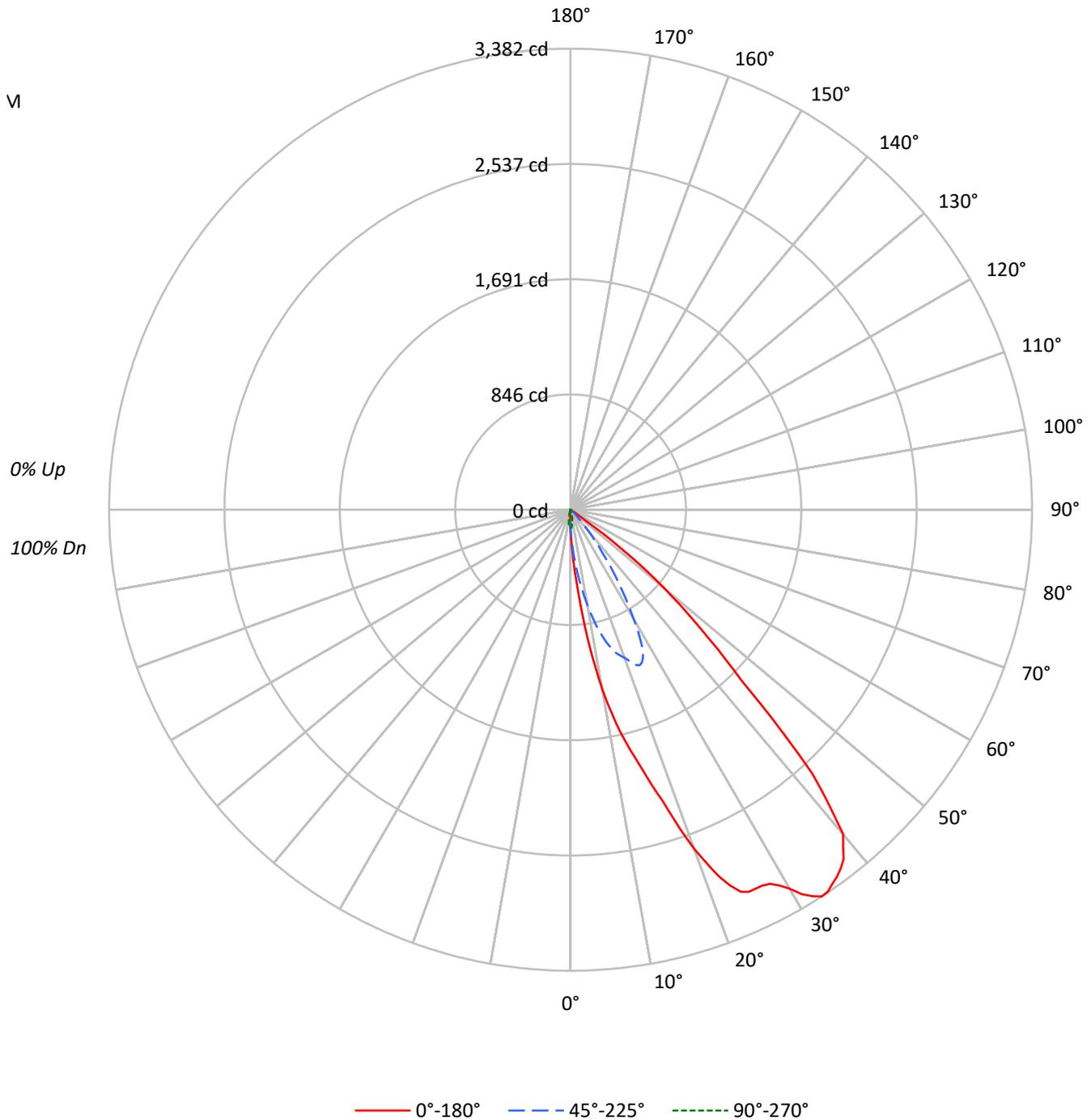
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1135.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 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				
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	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	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	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	22854	22854	22854	22854	22854
5°	97038	66144	20054	3613	1815
10°	233254	123028	12434	367	0
15°	343295	178726	5224	0	0
20°	485259	211885	1924	0	0
25°	587752	235177	0	0	0
30°	638160	183971	0	0	0
35°	703690	107688	0	0	0
40°	698405	43705	0	0	0
45°	432537	12738	0	0	0
50°	240843	268	0	0	0
55°	23540	0	0	0	0
60°	0	0	344	0	0
65°	0	0	408	0	0
70°	0	504	1057	0	0
75°	0	665	1397	0	0
80°	0	992	2083	0	0
85°	0	1976	4150	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 434583 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.9	2.2
10°-20°	146.3	12.9
20°-30°	333.9	29.4
30°-40°	394.3	34.7
40°-50°	210.7	18.6
50°-60°	22.9	2.0
60°-70°	0.4	0.0
70°-80°	0.8	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°	505.1	44.5
0°-40°	899.4	79.2
0°-60°	1133.0	99.8
0°-90°	1135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	133	133	133	133	133	
5°	561	383	116	21	10	79
15°	1925	1002	29	0	0	572
25°	3093	1238	0	0	0	1404
35°	3347	512	0	0	0	2067
45°	1776	52	0	0	0	1464
55°	78	0	0	0	0	220
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°	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7
2.5°	309.4	303.1	307.3	298.9	298.9	280.1	281.2	265.5	242.5	185.0	131.7
5°	561.3	586.4	566.5	540.4	525.8	507.0	481.9	455.7	382.6	231.0	116.0
7.5°	939.7	937.6	904.2	875.9	843.5	793.4	746.3	682.6	544.6	264.5	96.2
10°	1333.8	1326.4	1288.8	1264.8	1203.1	1131.0	1034.8	932.4	703.5	276.0	71.1
12.5°	1662.0	1652.6	1621.2	1580.4	1512.5	1421.6	1318.1	1183.2	870.7	263.4	46.0
15°	1925.4	1923.3	1893.0	1837.6	1766.5	1677.7	1560.6	1398.6	1002.4	231.0	29.3
17.5°	2237.9	2250.5	2196.1	2136.5	2034.1	1909.7	1766.5	1581.5	1099.6	191.3	18.8
20°	2647.7	2629.9	2579.7	2493.0	2394.7	2245.2	2042.5	1778.0	1156.1	148.4	10.5
21°	2773.1	2765.8	2713.5	2633.0	2524.3	2372.8	2163.7	1878.4	1182.2	132.7	8.4
22°	2900.6	2888.1	2847.3	2768.9	2666.5	2495.1	2265.1	1981.8	1215.6	116.0	5.2
23°	2995.7	2990.5	2959.2	2881.8	2776.2	2610.0	2374.9	2078.0	1238.6	100.3	3.1
24°	3068.9	3062.6	3031.3	2972.7	2881.8	2708.3	2485.7	2181.5	1248.1	86.8	1.0
25°	3093.0	3096.1	3077.3	3031.3	2955.0	2781.5	2568.2	2263.0	1237.6	74.2	0.0
26°	3094.0	3103.4	3089.8	3063.7	3001.0	2840.0	2645.6	2311.1	1210.4	62.7	0.0
27°	3094.0	3103.4	3089.8	3070.0	3008.3	2873.4	2687.4	2316.3	1168.6	53.3	0.0
28°	3108.6	3113.9	3096.1	3072.1	3005.2	2883.9	2698.9	2285.0	1101.7	46.0	0.0
29°	3149.4	3144.2	3114.9	3082.5	3002.0	2883.9	2664.4	2225.4	1018.1	38.7	0.0
30°	3209.0	3209.0	3163.0	3111.8	3016.7	2882.9	2609.0	2117.7	925.1	31.4	0.0
31°	3289.5	3282.2	3236.2	3159.9	3048.0	2882.9	2527.5	1998.6	839.4	27.2	0.0
32°	3343.8	3339.6	3295.7	3205.8	3099.2	2882.9	2439.7	1866.9	746.3	22.0	0.0
33°	3381.5	3373.1	3322.9	3229.9	3130.6	2868.2	2341.4	1725.7	662.7	17.8	0.0
34°	3376.2	3374.1	3321.9	3225.7	3124.3	2807.6	2227.5	1569.0	585.4	14.6	0.0
35°	3347.0	3347.0	3283.2	3183.9	3079.4	2718.7	2114.6	1435.2	512.2	10.5	0.0
36°	3325.0	3316.6	3244.5	3133.7	3004.1	2578.7	1947.3	1300.3	433.8	8.4	0.0
37°	3292.6	3276.9	3196.4	3077.3	2897.5	2427.1	1771.7	1180.1	366.9	5.2	0.0
38°	3250.8	3226.8	3128.5	3011.4	2780.4	2252.6	1593.0	1045.3	305.2	3.1	0.0
39°	3174.5	3154.6	3053.2	2926.8	2640.4	2068.6	1419.5	918.8	246.7	1.0	0.0
40°	3106.5	3072.1	2957.1	2811.8	2476.2	1860.6	1247.0	794.4	194.4	0.0	0.0
42.5°	2619.4	2582.9	2556.7	2412.5	1972.4	1335.9	870.7	509.0	101.4	0.0	0.0
45°	1775.9	1784.3	1702.7	1605.5	1301.4	870.7	544.6	283.3	52.3	0.0	0.0
47.5°	1295.1	1273.1	1162.3	978.4	763.0	509.0	284.3	136.9	20.9	0.0	0.0
50°	898.9	857.1	756.8	618.8	415.0	242.5	125.4	63.8	1.0	0.0	0.0
52.5°	488.1	458.9	388.8	282.2	172.5	93.0	50.2	26.1	0.0	0.0	0.0
55°	78.4	54.4	56.4	48.1	37.6	27.2	15.7	3.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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	2.1	2.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1	2.1



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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	1.0	1.0	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1	2.1
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°	132.7	132.7	132.7	132.7
2.5°	88.8	60.6	46.0	39.7
5°	51.2	20.9	11.5	10.5
7.5°	25.1	7.3	4.2	4.2
10°	10.5	2.1	0.0	0.0
12.5°	3.1	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°	1.0	0.0	0.0	0.0
67.5°	1.0	0.0	0.0	0.0
70°	1.0	0.0	0.0	0.0
72.5°	1.0	0.0	0.0	0.0
75°	1.0	0.0	0.0	0.0
77.5°	1.0	0.0	0.0	0.0
80°	1.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.0	0.0	0.0	0.0
85°	1.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)