

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: P1319194

Luminaire Tested: LDSQA3D13R209835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R209835DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

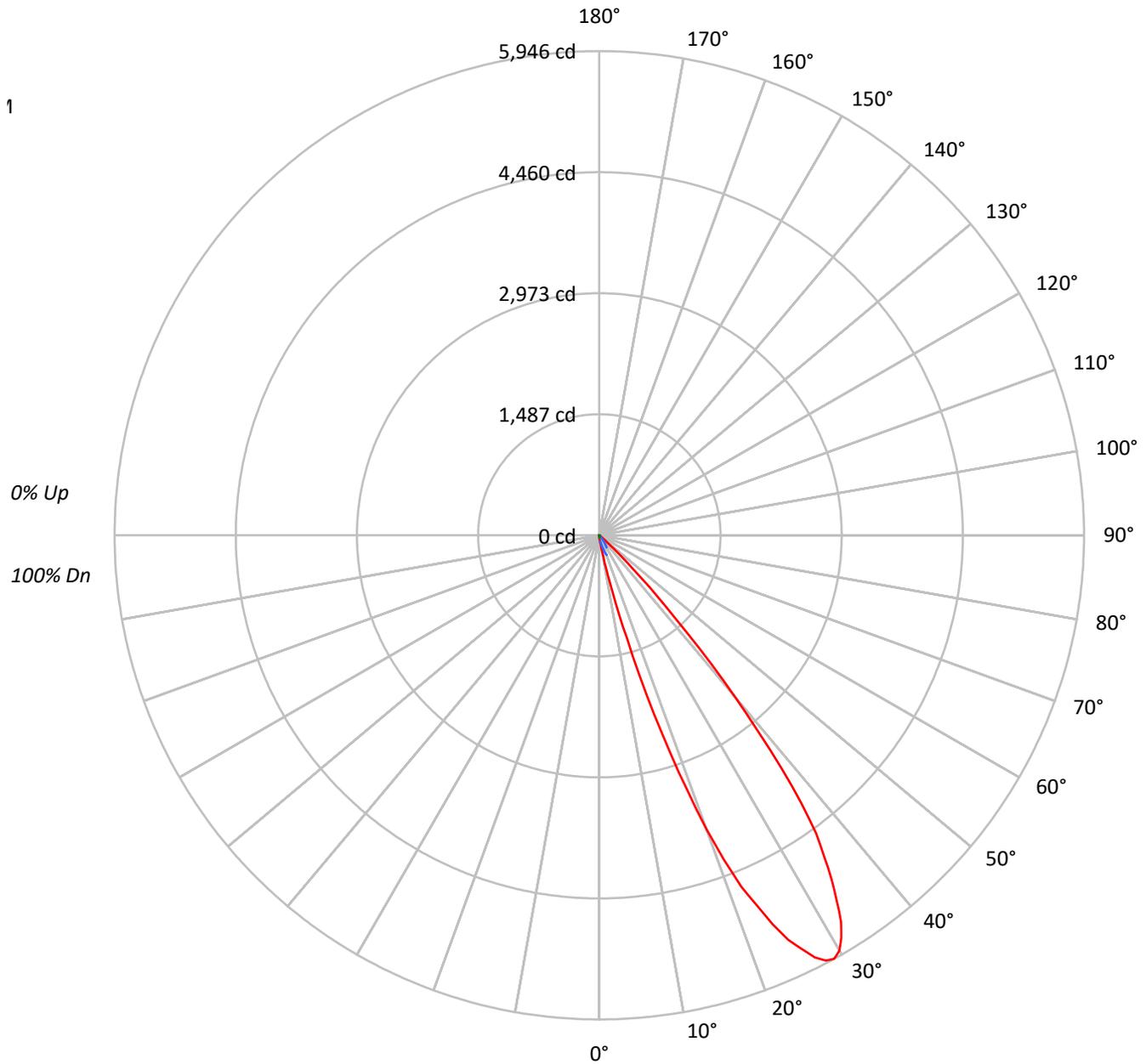
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 834.0 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

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

	0°	45°	90°	135°	180°
0°	4960	4960	4960	4960	4960
5°	11376	8506	4702	2870	2489
10°	35850	14812	3830	1591	1189
15°	232304	27387	2835	535	143
20°	701120	46864	1943	0	0
25°	1041270	47298	1159	0	0
30°	1170940	35955	457	0	0
35°	1010311	21466	315	0	0
40°	581769	7307	0	0	0
45°	141898	2947	195	0	195
50°	17040	804	214	214	616
55°	2282	0	450	450	901
60°	276	0	792	792	1309
65°	326	326	1223	1223	1834
70°	403	403	1511	1511	1913
75°	0	532	1996	1530	1996
80°	0	793	2281	1488	2281
85°	0	1581	4545	1581	1581

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 142823 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.9	0.5
10°-20°	77.3	9.3
20°-30°	336.9	40.4
30°-40°	339.3	40.7
40°-50°	68.1	8.2
50°-60°	3.4	0.4
60°-70°	2.3	0.3
70°-80°	2.0	0.2
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°	418.0	50.1
0°-40°	757.3	90.8
0°-60°	828.8	99.4
0°-90°	834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	66	49	27	17	14	10
15°	1303	154	16	3	1	510
25°	5480	249	6	0	0	2471
35°	4805	102	2	0	0	2859
45°	583	12	1	0	1	634
55°	8	0	2	2	3	14
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	43.1	43.1	42.4	42.4	41.6	42.4	40.9	41.6	41.6	40.9	37.1
5°	65.8	67.3	66.6	66.6	65.8	66.6	65.1	63.6	62.0	62.0	49.2
7.5°	108.2	107.4	105.9	106.7	104.4	102.9	101.4	100.6	96.1	93.8	64.3
10°	205.0	209.6	205.8	205.0	191.4	190.7	181.6	168.7	157.4	151.3	84.7
12.5°	564.5	588.7	550.8	532.7	522.1	481.2	463.8	419.2	376.0	343.5	107.4
15°	1302.9	1362.7	1286.3	1291.6	1228.0	1111.5	1009.4	921.6	817.9	713.5	153.6
17.5°	2552.9	2504.5	2462.8	2392.5	2263.1	2092.1	1871.9	1648.7	1455.8	1253.7	214.1
20°	3825.5	3782.4	3687.8	3534.2	3369.3	3115.8	2854.0	2518.8	2194.2	1890.1	255.7
21°	4263.6	4249.3	4094.2	3999.6	3745.3	3503.2	3201.3	2842.7	2477.2	2117.1	262.6
22°	4654.8	4568.6	4485.3	4345.4	4092.6	3829.3	3493.4	3115.8	2719.3	2319.1	263.3
23°	4925.7	4886.4	4807.7	4649.5	4398.3	4088.9	3734.8	3339.8	2922.1	2462.1	261.0
24°	5225.3	5175.4	5060.4	4875.8	4622.3	4316.6	3912.6	3520.6	3066.6	2582.4	255.0
25°	5479.6	5401.6	5265.4	5066.4	4789.5	4474.0	4067.7	3637.1	3167.3	2663.4	248.9
26°	5644.5	5602.1	5427.3	5210.9	4914.3	4589.0	4174.4	3726.4	3232.3	2700.4	239.1
27°	5816.3	5738.3	5566.6	5317.6	4996.1	4663.9	4234.9	3769.6	3255.0	2701.9	227.0
28°	5914.6	5829.9	5635.4	5373.6	5049.0	4705.5	4269.7	3783.2	3250.5	2678.5	212.6
29°	5945.6	5839.0	5649.0	5382.7	5061.9	4708.5	4264.4	3763.5	3210.4	2621.0	196.0
30°	5888.1	5779.2	5599.1	5339.6	5021.0	4670.7	4215.2	3698.4	3139.3	2538.5	180.8
31°	5762.5	5670.2	5496.2	5235.9	4930.2	4582.2	4104.0	3591.7	3018.2	2428.0	163.4
32°	5596.8	5506.0	5335.0	5099.7	4788.7	4437.7	3951.9	3425.3	2876.0	2263.1	146.0
33°	5347.9	5295.7	5142.1	4917.4	4606.4	4231.1	3747.6	3226.3	2673.2	2080.0	130.9
34°	5095.9	5030.1	4922.7	4676.8	4342.3	3967.8	3481.3	2951.6	2425.8	1874.9	116.5
35°	4805.4	4766.0	4597.3	4400.6	4064.6	3681.8	3198.3	2684.5	2137.5	1646.4	102.1
36°	4523.9	4463.4	4271.2	4063.1	3737.0	3323.1	2845.7	2363.0	1888.6	1432.3	87.0
37°	4115.3	4023.0	3886.1	3666.7	3285.3	2932.7	2496.9	2049.0	1582.1	1200.8	70.4
38°	3634.9	3591.7	3401.8	3180.9	2865.4	2530.9	2099.7	1719.8	1305.2	1002.5	53.7
39°	3068.2	3067.4	2885.8	2726.2	2417.5	2116.3	1727.4	1396.0	1077.4	807.3	41.6
40°	2587.7	2498.4	2386.4	2185.9	1949.1	1693.4	1352.9	1092.6	836.1	650.7	32.5
42.5°	1356.6	1349.1	1283.3	1132.7	1000.3	849.7	675.7	562.9	440.4	358.6	20.4
45°	582.6	586.4	541.0	518.3	466.8	404.0	341.2	284.5	243.6	197.5	12.1
47.5°	147.5	141.5	140.0	145.3	145.3	140.7	126.4	118.8	109.7	100.6	6.8
50°	63.6	62.0	60.5	60.5	56.7	54.5	50.7	46.2	42.4	37.8	3.0
52.5°	23.5	24.2	25.0	24.2	24.2	23.5	23.5	22.7	20.4	18.2	1.5
55°	7.6	7.6	7.6	8.3	8.3	9.1	9.1	9.1	9.1	8.3	0.0
57.5°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	33.3	29.5	25.0	21.2	20.4	19.7
5°	37.1	27.2	20.4	16.6	15.1	14.4
7.5°	40.1	25.0	16.6	12.1	10.6	9.8
10°	41.6	21.9	13.6	9.1	6.8	6.8
12.5°	42.4	18.9	9.8	6.1	3.8	3.8
15°	41.6	15.9	7.6	3.0	0.8	0.8
17.5°	37.8	12.9	4.5	0.8	0.0	0.0
20°	32.5	10.6	3.0	0.0	0.0	0.0
21°	31.0	9.1	2.3	0.0	0.0	0.0
22°	28.8	8.3	1.5	0.0	0.0	0.0
23°	26.5	7.6	1.5	0.0	0.0	0.0
24°	24.2	6.8	0.8	0.0	0.0	0.0
25°	22.7	6.1	0.8	0.0	0.0	0.0
26°	21.2	5.3	0.8	0.0	0.0	0.0
27°	18.9	4.5	0.0	0.0	0.0	0.0
28°	17.4	3.8	0.0	0.0	0.0	0.0
29°	15.1	3.0	0.0	0.0	0.0	0.0
30°	12.9	2.3	0.0	0.0	0.0	0.0
31°	10.6	2.3	0.0	0.0	0.0	0.0
32°	9.1	1.5	0.0	0.0	0.0	0.0
33°	7.6	1.5	0.0	0.0	0.0	0.0
34°	6.8	1.5	0.0	0.0	0.0	0.0
35°	6.1	1.5	0.0	0.0	0.0	0.0
36°	4.5	0.8	0.0	0.0	0.0	0.0
37°	3.8	0.8	0.0	0.0	0.0	0.0
38°	3.0	0.8	0.0	0.0	0.0	0.0
39°	2.3	0.0	0.0	0.0	0.0	0.0
40°	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	0.8	2.3	2.3
55°	0.8	1.5	0.8	1.5	3.0	3.0
57.5°	0.8	1.5	1.5	2.3	3.0	3.8
60°	1.5	2.3	2.3	2.3	3.8	3.8
62.5°	1.5	2.3	3.0	3.0	3.8	4.5
65°	1.5	3.0	3.0	3.0	3.8	4.5
67.5°	2.3	3.0	3.0	3.0	3.8	4.5
70°	2.3	3.0	3.0	3.0	3.8	3.8
72.5°	2.3	3.0	2.3	3.0	3.0	3.8
75°	2.3	3.0	2.3	2.3	3.0	3.0
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	1.5	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)