

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: P1315565

Luminaire Tested: LDSQA3D13R159735DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R159735DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

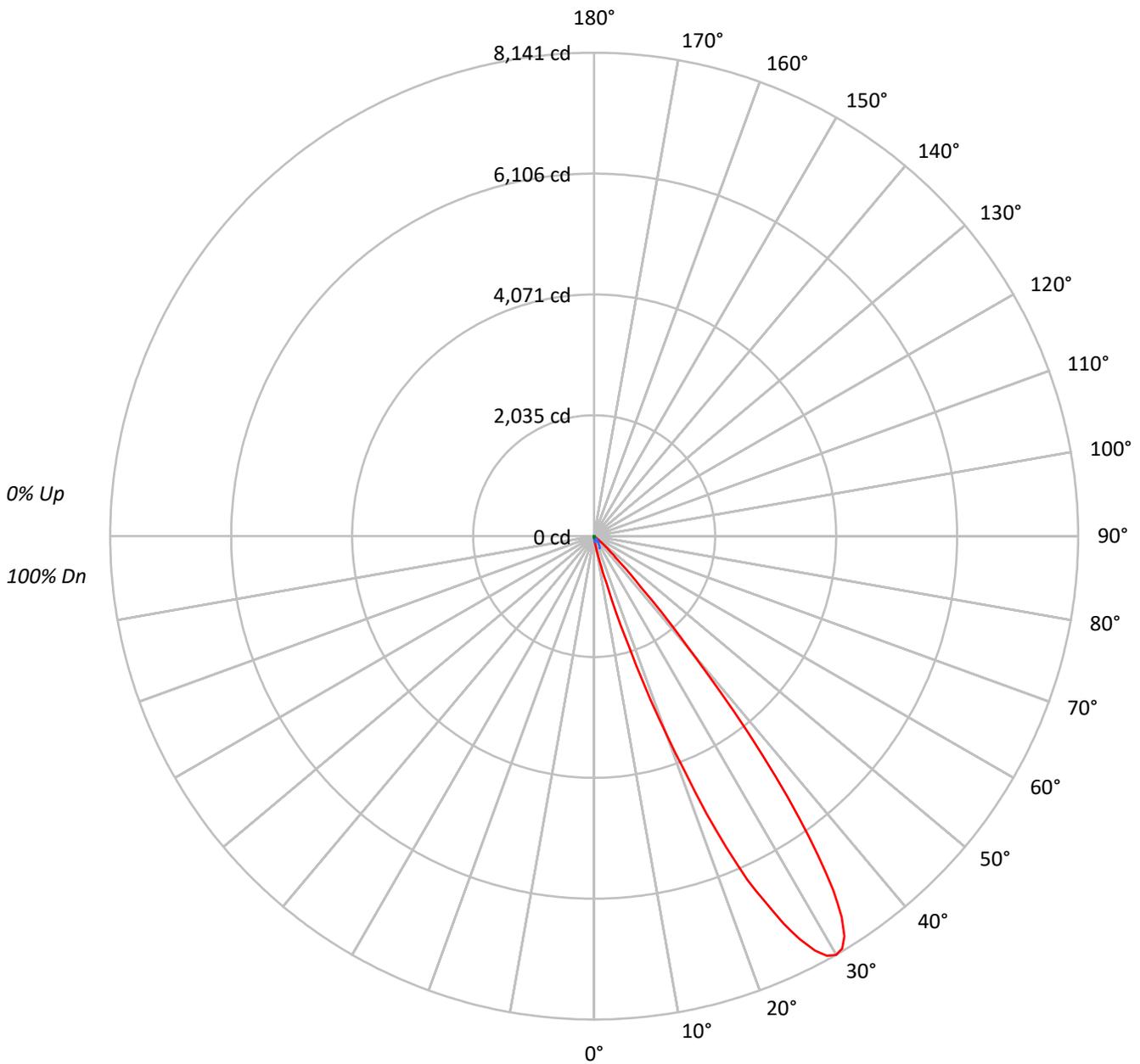
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 861.0 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
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



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



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	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	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	5304	5304	5304	5304	5304
5°	15335	11583	4547	1884	1245
10°	39907	17261	3008	0	0
15°	159488	28242	1623	0	0
20°	651636	41659	495	0	0
25°	1288115	41293	0	0	0
30°	1619004	32594	0	0	0
35°	1381394	19994	0	0	0
40°	568729	6317	0	0	0
45°	123046	2655	0	0	0
50°	15781	0	0	0	0
55°	1351	0	270	0	0
60°	0	0	620	0	0
65°	0	0	734	0	0
70°	0	453	1360	0	0
75°	0	599	1797	0	0
80°	0	893	2678	0	0
85°	0	1778	5335	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 128770 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	60.3	7.0
20°-30°	351.7	40.8
30°-40°	377.1	43.8
40°-50°	63.6	7.4
50°-60°	1.9	0.2
60°-70°	0.6	0.1
70°-80°	0.8	0.1
80°-90°	0.8	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°	416.2	48.3
0°-40°	793.3	92.1
0°-60°	858.8	99.8
0°-90°	861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	89	67	26	11	7	12
15°	894	158	9	0	0	414
25°	6779	217	0	0	0	3067
35°	6570	95	0	0	0	3776
45°	505	11	0	0	0	597
55°	4	0	1	0	0	11
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
2.5°	56.1	57.0	57.9	57.9	57.9	57.9	57.0	57.0	57.0	57.0	56.1
5°	88.7	88.7	88.7	88.7	88.7	88.7	87.8	87.8	87.8	87.8	87.8
7.5°	126.8	124.9	125.8	123.1	124.9	124.0	123.1	124.9	124.9	120.4	120.4
10°	228.2	227.3	218.2	220.0	221.8	220.9	220.9	215.5	214.6	211.0	207.3
12.5°	440.0	450.0	457.2	457.2	440.0	446.4	434.6	437.3	439.1	433.7	414.7
15°	894.5	910.8	893.6	909.9	903.6	880.0	853.8	818.5	832.1	807.6	799.5
17.5°	1959.3	1996.4	1981.0	1905.8	1930.3	1872.3	1836.1	1822.5	1784.5	1671.3	1624.3
20°	3555.5	3600.7	3558.2	3470.4	3498.4	3388.9	3360.8	3334.5	3166.1	3104.6	2907.2
21°	4227.3	4264.4	4280.7	4189.2	4133.1	4046.2	3973.7	3950.2	3847.9	3729.3	3526.5
22°	5038.5	4995.0	4897.2	4909.9	4826.6	4755.1	4654.6	4559.5	4445.5	4279.8	4112.3
23°	5710.3	5659.6	5613.4	5557.3	5467.6	5416.9	5273.0	5168.9	5020.4	4842.9	4681.8
24°	6335.9	6258.0	6229.1	6129.5	6104.1	5990.0	5873.3	5737.4	5558.2	5369.0	5190.6
25°	6778.6	6790.4	6765.1	6753.3	6623.8	6507.0	6391.1	6182.0	6029.0	5861.5	5587.1
26°	7253.1	7258.5	7245.8	7158.9	7042.1	6928.0	6778.6	6596.7	6374.8	6189.2	5941.2
27°	7616.1	7594.4	7576.3	7473.1	7377.1	7233.1	7097.3	6881.9	6665.5	6444.6	6156.6
28°	7905.8	7865.1	7842.5	7753.7	7641.5	7464.9	7298.3	7097.3	6880.9	6643.7	6332.3
29°	8080.6	8037.1	8011.8	7914.0	7784.5	7629.7	7461.3	7240.4	7007.7	6743.3	6430.1
30°	8141.2	8115.9	8076.1	7974.7	7840.7	7679.5	7506.6	7266.6	7023.1	6752.4	6421.0
31°	8101.4	8068.8	8030.8	7921.2	7776.4	7622.5	7421.5	7169.8	6913.5	6655.5	6304.2
32°	7943.0	7923.1	7876.9	7730.2	7612.5	7413.3	7215.0	6979.6	6699.9	6422.8	6105.0
33°	7646.0	7613.4	7573.6	7439.6	7289.3	7098.2	6900.9	6660.0	6382.1	6089.6	5740.2
34°	7193.3	7151.7	7101.9	7012.2	6820.3	6654.6	6426.4	6144.9	5914.9	5634.2	5318.2
35°	6570.4	6509.7	6450.0	6382.1	6166.6	6013.6	5859.7	5614.3	5392.5	5128.1	4770.5
36°	5871.4	5847.9	5799.0	5619.7	5550.0	5341.8	5217.8	4936.2	4756.9	4498.0	4202.8
37°	5081.0	4942.5	5013.1	4912.6	4702.6	4637.4	4489.8	4248.1	4054.3	3780.9	3567.2
38°	4233.6	4143.1	4192.9	4091.4	3981.9	3831.6	3719.3	3542.8	3325.5	3110.9	2908.1
39°	3355.4	3282.0	3336.4	3267.5	3101.0	3038.5	2938.9	2804.0	2629.2	2461.8	2269.8
40°	2529.7	2435.5	2507.9	2410.1	2334.1	2231.8	2181.1	2057.0	1948.4	1847.9	1725.7
42.5°	1155.3	1145.3	1129.0	1093.7	1085.6	1086.5	1024.0	983.3	928.0	863.7	824.8
45°	505.2	517.9	528.7	508.8	507.9	497.1	493.4	466.3	455.4	434.6	409.2
47.5°	249.0	253.5	250.8	256.2	251.7	244.5	242.6	239.0	228.2	227.3	215.5
50°	58.9	57.9	57.9	58.9	57.9	57.9	57.0	55.2	54.3	55.2	52.5
52.5°	19.0	19.9	19.0	18.1	19.0	19.9	19.0	19.0	19.0	19.0	19.0
55°	4.5	4.5	4.5	4.5	4.5	4.5	3.6	3.6	4.5	4.5	4.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
2.5°	55.2	47.1	38.9	30.8	22.6	18.1	17.2	16.3
5°	83.3	67.0	44.4	26.3	15.4	10.9	8.1	7.2
7.5°	112.3	83.3	48.9	21.7	10.9	4.5	1.8	0.9
10°	161.2	98.7	50.7	17.2	5.4	0.0	0.0	0.0
12.5°	316.0	113.2	49.8	13.6	0.9	0.0	0.0	0.0
15°	525.1	158.4	46.2	9.1	0.0	0.0	0.0	0.0
17.5°	860.1	204.6	39.8	6.3	0.0	0.0	0.0	0.0
20°	1333.6	227.3	30.8	2.7	0.0	0.0	0.0	0.0
21°	1563.6	229.1	27.2	1.8	0.0	0.0	0.0	0.0
22°	1762.8	229.1	23.5	0.9	0.0	0.0	0.0	0.0
23°	1947.5	226.3	20.8	0.0	0.0	0.0	0.0	0.0
24°	2099.6	222.7	19.0	0.0	0.0	0.0	0.0	0.0
25°	2213.7	217.3	17.2	0.0	0.0	0.0	0.0	0.0
26°	2266.2	210.1	14.5	0.0	0.0	0.0	0.0	0.0
27°	2292.4	200.1	12.7	0.0	0.0	0.0	0.0	0.0
28°	2274.3	189.2	10.9	0.0	0.0	0.0	0.0	0.0
29°	2229.1	177.5	8.1	0.0	0.0	0.0	0.0	0.0
30°	2170.2	163.9	6.3	0.0	0.0	0.0	0.0	0.0
31°	2084.2	150.3	4.5	0.0	0.0	0.0	0.0	0.0
32°	1966.5	136.7	3.6	0.0	0.0	0.0	0.0	0.0
33°	1809.0	122.2	1.8	0.0	0.0	0.0	0.0	0.0
34°	1614.3	107.7	0.9	0.0	0.0	0.0	0.0	0.0
35°	1396.1	95.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	1208.7	81.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	1020.4	65.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	854.7	51.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	707.1	41.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	585.8	28.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	324.1	19.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	196.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	114.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	43.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.6	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.8	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.8	1.8	0.9	0.0	0.0	0.0
67.5°	0.0	0.0	1.8	2.7	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)