

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: P1319030

Luminaire Tested: LDSQA3D09R159835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319030  
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: LDSQA3D09R159835DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

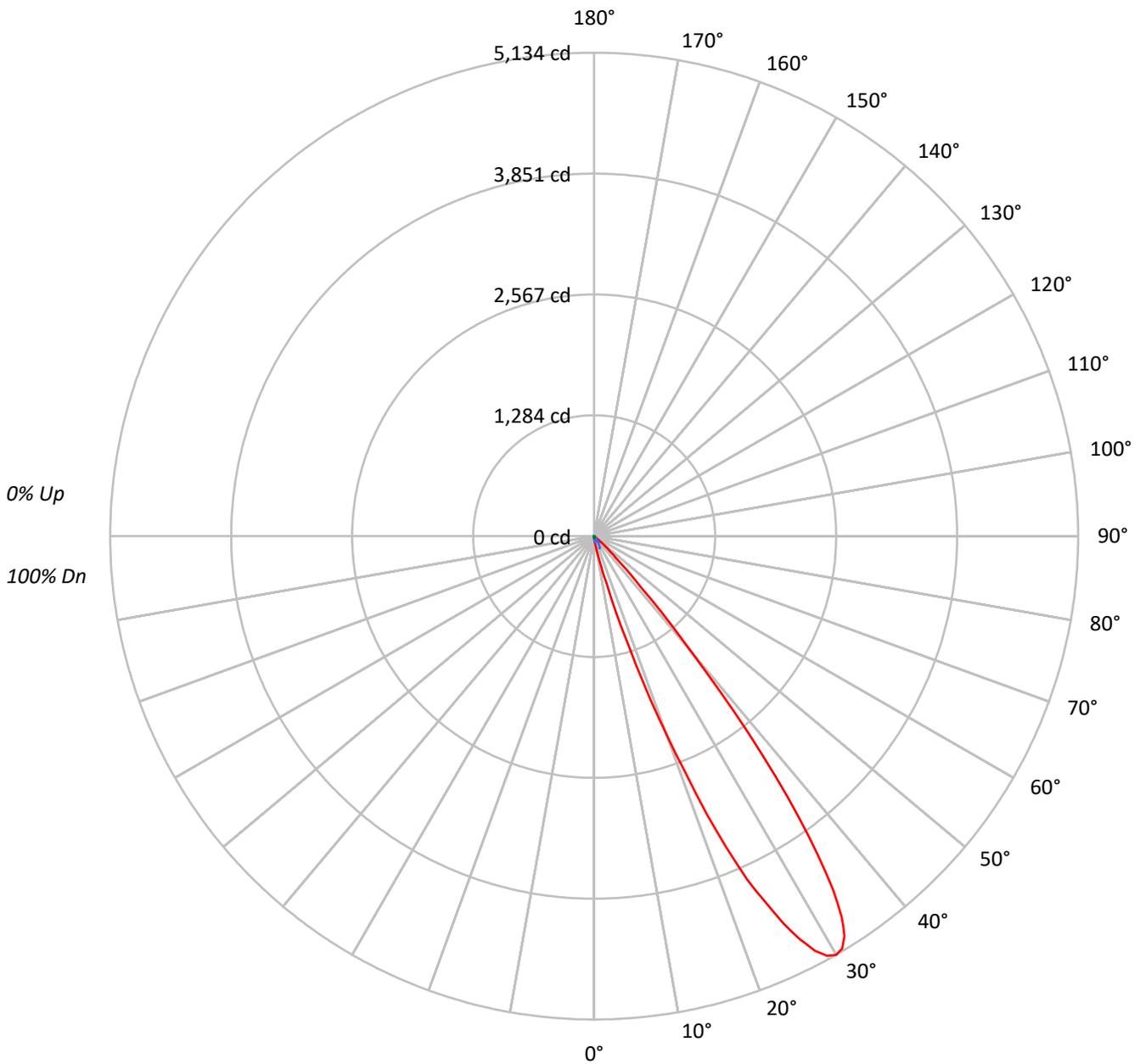
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 543.0 lumens  
Efficiency: N/A  
Efficacy: 49.4 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): 11  
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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CATALOG NUMBER: LDSQA3D09R159835DE010 3LSQCA30R 1MB

### Luminous Intensity Polar Plot



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



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CATALOG NUMBER: LDSQA3D09R159835DE010 3LSQCA30R 1MB

**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°	3341	3341	3341	3341	3341
5°	9681	7313	2870	1193	795
10°	25165	10878	1889	0	0
15°	100578	17812	1016	0	0
20°	410959	26263	312	0	0
25°	812364	26034	0	0	0
30°	1021055	20543	0	0	0
35°	871192	12615	0	0	0
40°	358679	3979	0	0	0
45°	77598	1681	0	0	0
50°	9940	0	0	0	0
55°	871	0	180	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	302	856	0	0
75°	0	399	1131	0	0
80°	0	595	1686	0	0
85°	0	1186	3359	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 81227 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	38.1	7.0
20°-30°	221.8	40.8
30°-40°	237.8	43.8
40°-50°	40.1	7.4
50°-60°	1.2	0.2
60°-70°	0.4	0.1
70°-80°	0.5	0.1
80°-90°	0.5	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°	262.5	48.3
0°-40°	500.3	92.1
0°-60°	541.6	99.7
0°-90°	543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	56	42	17	7	5	8
15°	564	100	6	0	0	261
25°	4275	137	0	0	0	1934
35°	4144	60	0	0	0	2381
45°	319	7	0	0	0	376
55°	3	0	1	0	0	7
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°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	35.4	36.0	36.5	36.5	36.5	36.5	36.0	36.0	36.0	36.0	35.4
5°	56.0	56.0	56.0	56.0	56.0	56.0	55.4	55.4	55.4	55.4	55.4
7.5°	79.9	78.8	79.4	77.7	78.8	78.2	77.7	78.8	78.8	75.9	75.9
10°	143.9	143.3	137.6	138.8	139.9	139.3	139.3	135.9	135.3	133.0	130.8
12.5°	277.5	283.8	288.4	288.4	277.5	281.5	274.1	275.8	276.9	273.5	261.5
15°	564.1	574.4	563.6	573.8	569.9	555.0	538.4	516.2	524.7	509.3	504.2
17.5°	1235.6	1259.0	1249.3	1201.9	1217.4	1180.8	1158.0	1149.4	1125.4	1054.1	1024.4
20°	2242.3	2270.8	2244.0	2188.6	2206.3	2137.2	2119.5	2103.0	1996.8	1957.9	1833.5
21°	2666.0	2689.4	2699.7	2642.0	2606.6	2551.8	2506.1	2491.2	2426.7	2351.9	2224.0
22°	3177.6	3150.2	3088.5	3096.5	3044.0	2998.9	2935.5	2875.5	2803.6	2699.1	2593.5
23°	3601.3	3569.3	3540.2	3504.8	3448.2	3416.3	3325.5	3259.8	3166.2	3054.2	2952.6
24°	3995.8	3946.7	3928.4	3865.6	3849.6	3777.7	3704.0	3618.4	3505.3	3386.0	3273.5
25°	4275.0	4282.5	4266.5	4259.0	4177.4	4103.7	4030.6	3898.7	3802.2	3696.6	3523.6
26°	4574.2	4577.7	4569.7	4514.8	4441.2	4369.2	4275.0	4160.3	4020.4	3903.3	3746.9
27°	4803.2	4789.5	4778.1	4713.0	4652.5	4561.7	4476.0	4340.1	4203.7	4064.3	3882.8
28°	4985.9	4960.2	4945.9	4890.0	4819.2	4707.8	4602.8	4476.0	4339.6	4190.0	3993.5
29°	5096.1	5068.7	5052.7	4991.1	4909.4	4811.8	4705.6	4566.2	4419.5	4252.8	4055.2
30°	5134.4	5118.4	5093.3	5029.3	4944.8	4843.2	4734.1	4582.8	4429.2	4258.5	4049.5
31°	5109.3	5088.7	5064.7	4995.6	4904.3	4807.2	4680.4	4521.7	4360.1	4197.4	3975.8
32°	5009.3	4996.8	4967.6	4875.1	4800.9	4675.3	4550.3	4401.8	4225.4	4050.6	3850.2
33°	4822.0	4801.5	4776.4	4691.9	4597.1	4476.6	4352.1	4200.2	4024.9	3840.5	3620.1
34°	4536.5	4510.3	4478.9	4422.3	4301.3	4196.8	4052.9	3875.3	3730.3	3553.3	3354.0
35°	4143.7	4105.4	4067.8	4024.9	3889.0	3792.5	3695.5	3540.7	3400.8	3234.1	3008.6
36°	3702.9	3688.0	3657.2	3544.2	3500.2	3368.9	3290.6	3113.1	3000.0	2836.7	2650.6
37°	3204.4	3117.1	3161.6	3098.2	2965.7	2924.6	2831.6	2679.1	2556.9	2384.5	2249.7
38°	2670.0	2612.9	2644.3	2580.3	2511.2	2416.4	2345.6	2234.3	2097.3	1961.9	1834.0
39°	2116.1	2069.9	2104.1	2060.7	1955.7	1916.3	1853.4	1768.4	1658.2	1552.5	1431.5
40°	1595.4	1536.0	1581.7	1520.0	1472.0	1407.5	1375.5	1297.3	1228.8	1165.4	1088.3
42.5°	728.6	722.3	712.0	689.8	684.6	685.2	645.8	620.1	585.3	544.7	520.2
45°	318.6	326.6	333.5	320.9	320.3	313.5	311.2	294.1	287.2	274.1	258.1
47.5°	157.0	159.9	158.2	161.6	158.7	154.2	153.0	150.7	143.9	143.3	135.9
50°	37.1	36.5	36.5	37.1	36.5	36.5	36.0	34.8	34.3	34.8	33.1
52.5°	12.0	12.6	12.0	11.4	12.0	12.6	12.0	12.0	12.0	12.0	12.0
55°	2.9	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.9	2.9	2.9
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°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	34.8	29.7	24.6	19.4	14.3	11.4	10.8	10.3
5°	52.5	42.3	28.0	16.6	9.7	6.9	5.1	4.6
7.5°	70.8	52.5	30.8	13.7	6.9	2.9	1.1	0.6
10°	101.6	62.2	32.0	10.8	3.4	0.0	0.0	0.0
12.5°	199.3	71.4	31.4	8.6	0.6	0.0	0.0	0.0
15°	331.2	99.9	29.1	5.7	0.0	0.0	0.0	0.0
17.5°	542.4	129.0	25.1	4.0	0.0	0.0	0.0	0.0
20°	841.1	143.3	19.4	1.7	0.0	0.0	0.0	0.0
21°	986.1	144.5	17.1	1.1	0.0	0.0	0.0	0.0
22°	1111.7	144.5	14.8	0.6	0.0	0.0	0.0	0.0
23°	1228.2	142.7	13.1	0.0	0.0	0.0	0.0	0.0
24°	1324.1	140.5	12.0	0.0	0.0	0.0	0.0	0.0
25°	1396.1	137.0	10.8	0.0	0.0	0.0	0.0	0.0
26°	1429.2	132.5	9.1	0.0	0.0	0.0	0.0	0.0
27°	1445.8	126.2	8.0	0.0	0.0	0.0	0.0	0.0
28°	1434.3	119.3	6.9	0.0	0.0	0.0	0.0	0.0
29°	1405.8	111.9	5.1	0.0	0.0	0.0	0.0	0.0
30°	1368.7	103.3	4.0	0.0	0.0	0.0	0.0	0.0
31°	1314.4	94.8	2.9	0.0	0.0	0.0	0.0	0.0
32°	1240.2	86.2	2.3	0.0	0.0	0.0	0.0	0.0
33°	1140.8	77.1	1.1	0.0	0.0	0.0	0.0	0.0
34°	1018.1	67.9	0.6	0.0	0.0	0.0	0.0	0.0
35°	880.5	60.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	762.3	51.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	643.5	41.1	0.0	0.0	0.0	0.0	0.0	0.0
38°	539.0	32.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	445.9	26.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	369.4	17.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	204.4	12.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	123.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	71.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.1	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.1	1.1	0.6	0.0	0.0	0.0
67.5°	0.0	0.0	1.1	1.7	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.1	1.7	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.1	1.7	0.6	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)