

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: P1308393

Luminaire Tested: LDSQA3D20R209027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308393  
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: LDSQA3D20R209027D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

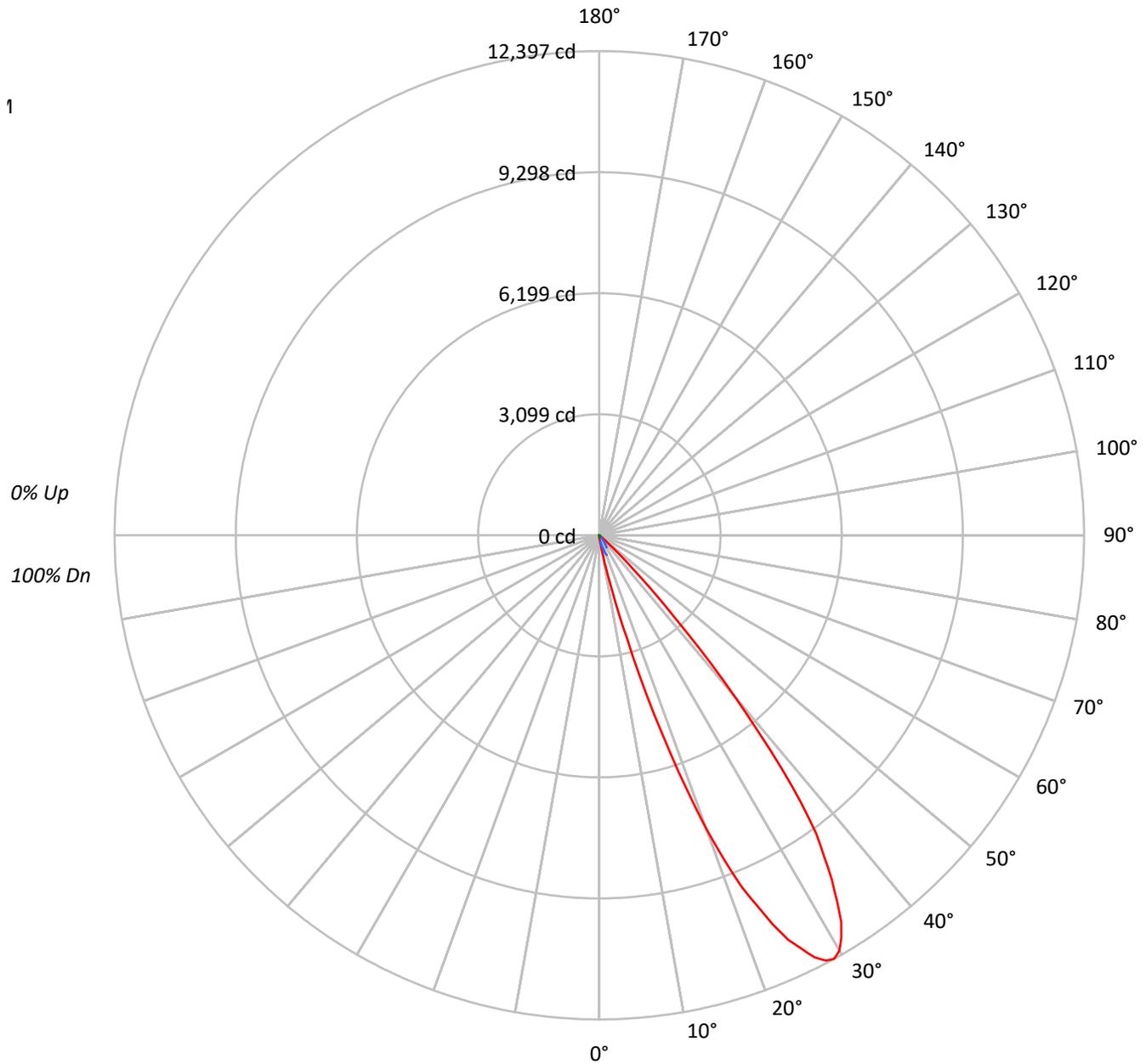
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1739.0 lumens  
Efficiency: N/A  
Efficacy: 60.4 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): 28.8  
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	100			100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61			61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41			41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°	45°	90°	135°	180°
0°	10333	10333	10333	10333	10333
5°	23736	17720	9820	5999	5186
10°	74778	30901	8009	3305	2483
15°	484400	57109	5902	1123	285
20°	1461952	97741	4050	0	0
25°	2171169	98643	2394	0	0
30°	2441572	74992	935	0	0
35°	2106634	44782	673	0	0
40°	1213065	15243	0	0	0
45°	295876	6138	390	0	390
50°	35501	1688	429	429	1259
55°	4744	0	961	961	1892
60°	551	0	1619	1619	2721
65°	652	652	2567	2567	3871
70°	806	806	3172	3172	3978
75°	0	1065	4192	3127	4192
80°	0	1587	4661	3174	4661
85°	0	3162	9287	3162	3162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 297800 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.0	0.5
10°-20°	161.2	9.3
20°-30°	702.5	40.4
30°-40°	707.4	40.7
40°-50°	141.9	8.2
50°-60°	7.1	0.4
60°-70°	4.7	0.3
70°-80°	4.1	0.2
80°-90°	2.1	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°	871.6	50.1
0°-40°	1579.0	90.8
0°-60°	1728.1	99.4
0°-90°	1739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	137	102	57	35	30	22
15°	2717	320	33	6	2	1064
25°	11426	519	13	0	0	5152
35°	10020	213	3	0	0	5962
45°	1215	25	2	0	2	1323
55°	16	0	3	3	6	29
65°	2	2	6	6	10	2
75°	0	2	6	5	6	1
85°	0	2	5	2	2	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°	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
2.5°	89.9	89.9	88.4	88.4	86.8	88.4	85.2	86.8	86.8	85.2	77.3
5°	137.3	140.4	138.8	138.8	137.3	138.8	135.7	132.5	129.4	129.4	102.5
7.5°	225.6	224.0	220.9	222.5	217.7	214.6	211.4	209.8	200.4	195.6	134.1
10°	427.6	437.0	429.1	427.6	399.2	397.6	378.6	351.8	328.2	315.5	176.7
12.5°	1177.0	1227.4	1148.6	1110.7	1088.6	1003.4	967.1	874.0	784.1	716.3	224.0
15°	2716.8	2841.4	2682.1	2693.1	2560.6	2317.6	2104.6	1921.6	1705.5	1487.8	320.3
17.5°	5323.1	5222.1	5135.4	4988.6	4718.9	4362.3	3903.2	3437.8	3035.5	2614.2	446.5
20°	7976.8	7886.8	7689.6	7369.4	7025.4	6496.9	5951.0	5252.1	4575.3	3941.1	533.3
21°	8890.3	8860.3	8536.9	8339.6	7809.5	7304.7	6675.2	5927.4	5165.3	4414.4	547.5
22°	9705.9	9526.1	9352.5	9060.6	8533.7	7984.7	7284.2	6496.9	5670.2	4835.6	549.0
23°	10270.7	10188.7	10024.6	9694.9	9171.1	8525.8	7787.5	6963.9	6093.0	5133.8	544.3
24°	10895.5	10791.4	10551.6	10166.6	9638.1	9000.7	8158.2	7341.0	6394.4	5384.6	531.7
25°	11425.6	11263.1	10979.1	10564.2	9986.7	9328.9	8481.6	7583.9	6604.2	5553.5	519.1
26°	11769.5	11681.2	11316.7	10865.5	10247.1	9568.7	8704.1	7770.1	6739.9	5630.8	498.5
27°	12127.7	11965.2	11607.0	11088.0	10417.5	9724.9	8830.3	7860.0	6787.2	5633.9	473.3
28°	12332.8	12156.1	11750.6	11204.7	10527.9	9811.6	8902.9	7888.4	6777.7	5585.0	443.3
29°	12397.4	12175.0	11779.0	11223.7	10554.7	9817.9	8891.8	7847.4	6694.1	5465.1	408.6
30°	12277.5	12050.4	11674.9	11133.7	10469.5	9739.1	8789.3	7711.7	6545.8	5293.1	377.1
31°	12015.7	11823.2	11460.3	10917.6	10280.2	9554.5	8557.4	7489.3	6293.4	5062.8	340.8
32°	11670.1	11480.8	11124.3	10633.6	9985.2	9253.1	8240.2	7142.2	5996.8	4718.9	304.5
33°	11151.1	11042.2	10721.9	10253.4	9604.9	8822.4	7814.3	6727.2	5574.0	4337.1	272.9
34°	10625.7	10488.5	10264.4	9751.7	9054.3	8273.4	7258.9	6154.5	5058.1	3909.5	243.0
35°	10019.9	9937.8	9586.0	9175.8	8475.3	7677.0	6668.9	5597.6	4457.0	3433.0	213.0
36°	9433.0	9306.8	8906.0	8472.2	7792.2	6929.2	5933.7	4927.1	3937.9	2986.6	181.4
37°	8581.0	8388.6	8103.0	7645.5	6850.3	6115.1	5206.4	4272.4	3298.9	2503.8	146.7
38°	7579.2	7489.3	7093.3	6632.6	5974.7	5277.4	4378.1	3586.1	2721.5	2090.4	112.0
39°	6397.5	6395.9	6017.3	5684.4	5040.7	4412.8	3601.9	2910.8	2246.6	1683.4	86.8
40°	5395.7	5209.5	4976.0	4557.9	4064.1	3530.9	2820.9	2278.2	1743.3	1356.8	67.8
42.5°	2828.8	2813.0	2675.8	2361.8	2085.7	1771.7	1408.9	1173.8	918.2	747.8	42.6
45°	1214.8	1222.7	1128.0	1080.7	973.4	842.5	711.5	593.2	508.0	411.8	25.2
47.5°	307.6	295.0	291.9	302.9	302.9	293.4	263.5	247.7	228.8	209.8	14.2
50°	132.5	129.4	126.2	126.2	118.3	113.6	105.7	96.2	88.4	78.9	6.3
52.5°	48.9	50.5	52.1	50.5	50.5	48.9	48.9	47.3	42.6	37.9	3.2
55°	15.8	15.8	15.8	17.4	17.4	18.9	18.9	18.9	18.9	17.4	0.0
57.5°	3.2	3.2	4.7	4.7	4.7	4.7	4.7	4.7	6.3	6.3	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	1.6	0.0	1.6	1.6	0.0	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	60.0	60.0	60.0	60.0	60.0	60.0
2.5°	69.4	61.5	52.1	44.2	42.6	41.0
5°	77.3	56.8	42.6	34.7	31.6	30.0
7.5°	83.6	52.1	34.7	25.2	22.1	20.5
10°	86.8	45.8	28.4	18.9	14.2	14.2
12.5°	88.4	39.4	20.5	12.6	7.9	7.9
15°	86.8	33.1	15.8	6.3	1.6	1.6
17.5°	78.9	26.8	9.5	1.6	0.0	0.0
20°	67.8	22.1	6.3	0.0	0.0	0.0
21°	64.7	18.9	4.7	0.0	0.0	0.0
22°	60.0	17.4	3.2	0.0	0.0	0.0
23°	55.2	15.8	3.2	0.0	0.0	0.0
24°	50.5	14.2	1.6	0.0	0.0	0.0
25°	47.3	12.6	1.6	0.0	0.0	0.0
26°	44.2	11.0	1.6	0.0	0.0	0.0
27°	39.4	9.5	0.0	0.0	0.0	0.0
28°	36.3	7.9	0.0	0.0	0.0	0.0
29°	31.6	6.3	0.0	0.0	0.0	0.0
30°	26.8	4.7	0.0	0.0	0.0	0.0
31°	22.1	4.7	0.0	0.0	0.0	0.0
32°	18.9	3.2	0.0	0.0	0.0	0.0
33°	15.8	3.2	0.0	0.0	0.0	0.0
34°	14.2	3.2	0.0	0.0	0.0	0.0
35°	12.6	3.2	0.0	0.0	0.0	0.0
36°	9.5	1.6	0.0	0.0	0.0	0.0
37°	7.9	1.6	0.0	0.0	0.0	0.0
38°	6.3	1.6	0.0	0.0	0.0	0.0
39°	4.7	0.0	0.0	0.0	0.0	0.0
40°	4.7	0.0	0.0	0.0	0.0	0.0
42.5°	1.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.6	0.0	0.0	1.6	1.6
47.5°	0.0	1.6	0.0	0.0	1.6	3.2
50°	0.0	1.6	1.6	1.6	3.2	4.7
52.5°	0.0	3.2	1.6	1.6	4.7	4.7
55°	1.6	3.2	1.6	3.2	6.3	6.3
57.5°	1.6	3.2	3.2	4.7	6.3	7.9
60°	3.2	4.7	4.7	4.7	7.9	7.9
62.5°	3.2	4.7	6.3	6.3	7.9	9.5
65°	3.2	6.3	6.3	6.3	7.9	9.5
67.5°	4.7	6.3	6.3	6.3	7.9	9.5
70°	4.7	6.3	6.3	6.3	7.9	7.9
72.5°	4.7	6.3	4.7	6.3	6.3	7.9
75°	4.7	6.3	4.7	4.7	6.3	6.3
77.5°	3.2	4.7	4.7	3.2	4.7	4.7
80°	3.2	4.7	3.2	3.2	4.7	4.7



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.2	4.7	3.2	1.6	3.2	3.2
85°	3.2	4.7	3.2	1.6	1.6	1.6
87.5°	3.2	4.7	3.2	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)