

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: P1317588

Luminaire Tested: LDSQA3D17R209827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

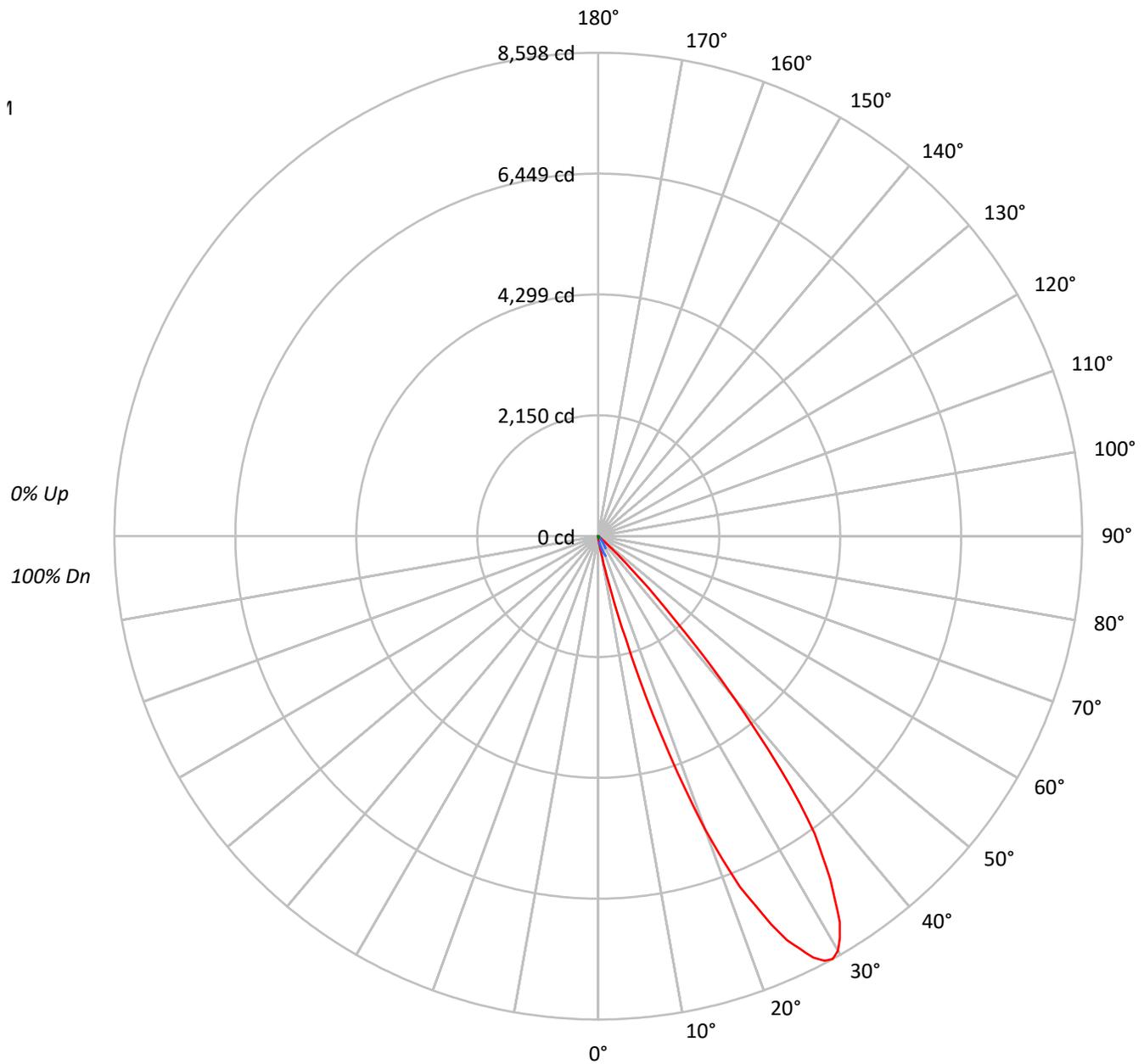
Test Method: LM-79-2019  
Report Number: P1317588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1206.1 lumens  
Efficiency: N/A  
Efficacy: 59.1 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): 20.4  
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°	7164	7164	7164	7164	7164
5°	16458	12292	6811	4166	3596
10°	51852	21423	5544	2291	1714
15°	335931	39600	4101	785	196
20°	1013862	67775	2804	0	0
25°	1505714	68410	1672	0	0
30°	1693241	52003	656	0	0
35°	1460951	31053	463	0	0
40°	841257	10567	0	0	0
45°	205199	4262	268	0	268
50°	24623	1179	295	295	884
55°	3273	0	661	661	1321
60°	379	0	1137	1137	1894
65°	448	448	1793	1793	2690
70°	554	554	2216	2216	2769
75°	0	732	2928	2196	2928
80°	0	1091	3273	2182	3273
85°	0	2174	6521	2174	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 206514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.6	0.5
10°-20°	111.8	9.3
20°-30°	487.2	40.4
30°-40°	490.6	40.7
40°-50°	98.4	8.2
50°-60°	5.0	0.4
60°-70°	3.3	0.3
70°-80°	2.9	0.2
80°-90°	1.5	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°	604.5	50.1
0°-40°	1095.1	90.8
0°-60°	1198.4	99.4
0°-90°	1206.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1206.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	95	71	39	24	21	15
15°	1884	222	23	4	1	738
25°	7924	360	9	0	0	3573
35°	6949	148	2	0	0	4135
45°	842	18	1	0	1	917
55°	11	0	2	2	4	20
65°	1	1	4	4	7	1
75°	0	1	4	3	4	0
85°	0	1	3	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°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
2.5°	62.4	62.4	61.3	61.3	60.2	61.3	59.1	60.2	60.2	59.1	53.6
5°	95.2	97.4	96.3	96.3	95.2	96.3	94.1	91.9	89.7	89.7	71.1
7.5°	156.5	155.4	153.2	154.3	151.0	148.8	146.6	145.5	139.0	135.7	93.0
10°	296.5	303.1	297.6	296.5	276.8	275.7	262.6	244.0	227.6	218.8	122.5
12.5°	816.2	851.2	796.5	770.3	754.9	695.9	670.7	606.1	543.8	496.7	155.4
15°	1884.1	1970.5	1860.0	1867.7	1775.8	1607.3	1459.6	1332.6	1182.8	1031.8	222.1
17.5°	3691.6	3621.6	3561.4	3459.6	3272.5	3025.3	2706.9	2384.1	2105.1	1813.0	309.6
20°	5531.9	5469.5	5332.8	5110.7	4872.2	4505.6	4127.1	3642.4	3173.0	2733.1	369.8
21°	6165.4	6144.6	5920.3	5783.6	5415.9	5065.8	4629.3	4110.6	3582.2	3061.4	379.7
22°	6731.1	6606.3	6486.0	6283.6	5918.1	5537.4	5051.6	4505.6	3932.3	3353.5	380.8
23°	7122.8	7065.9	6952.1	6723.4	6360.2	5912.7	5400.6	4829.5	4225.5	3560.3	377.5
24°	7556.0	7483.8	7317.5	7050.6	6684.0	6242.0	5657.7	5091.0	4434.5	3734.3	368.7
25°	7923.7	7811.0	7614.0	7326.3	6925.8	6469.6	5882.0	5259.5	4580.0	3851.3	360.0
26°	8162.2	8100.9	7848.2	7535.3	7106.4	6635.9	6036.3	5388.6	4674.1	3904.9	345.7
27°	8410.6	8297.9	8049.5	7689.5	7224.5	6744.2	6123.8	5450.9	4706.9	3907.1	328.2
28°	8552.8	8430.3	8149.1	7770.5	7301.1	6804.4	6174.2	5470.6	4700.4	3873.2	307.4
29°	8597.7	8443.4	8168.8	7783.6	7319.7	6808.8	6166.5	5442.2	4642.4	3790.1	283.4
30°	8514.5	8356.9	8096.5	7721.3	7260.6	6754.1	6095.4	5348.1	4539.5	3670.8	261.5
31°	8332.9	8199.4	7947.7	7571.4	7129.3	6626.0	5934.5	5193.8	4364.5	3511.1	236.3
32°	8093.3	7962.0	7714.7	7374.4	6924.7	6417.1	5714.6	4953.1	4158.8	3272.5	211.2
33°	7733.3	7657.8	7435.7	7110.7	6661.1	6118.4	5419.2	4665.4	3865.6	3007.8	189.3
34°	7369.0	7273.8	7118.4	6762.8	6279.2	5737.6	5034.1	4268.2	3507.8	2711.2	168.5
35°	6948.8	6891.9	6647.9	6363.4	5877.7	5324.0	4624.9	3882.0	3090.9	2380.8	147.7
36°	6541.8	6454.3	6176.4	5875.5	5403.9	4805.4	4115.0	3417.0	2730.9	2071.2	125.8
37°	5951.0	5817.5	5619.4	5302.1	4750.7	4240.8	3610.6	2962.9	2287.8	1736.4	101.8
38°	5256.2	5193.8	4919.2	4599.7	4143.5	3659.9	3036.2	2487.0	1887.4	1449.7	77.7
39°	4436.7	4435.6	4173.0	3942.1	3495.7	3060.3	2497.9	2018.7	1558.0	1167.4	60.2
40°	3741.9	3612.8	3450.9	3160.9	2818.5	2448.7	1956.3	1579.9	1209.0	940.9	47.0
42.5°	1961.8	1950.8	1855.6	1637.9	1446.4	1228.7	977.1	814.0	636.8	518.6	29.5
45°	842.5	847.9	782.3	749.5	675.1	584.3	493.5	411.4	352.3	285.6	17.5
47.5°	213.4	204.6	202.4	210.1	210.1	203.5	182.7	171.8	158.6	145.5	9.8
50°	91.9	89.7	87.5	87.5	82.1	78.8	73.3	66.7	61.3	54.7	4.4
52.5°	33.9	35.0	36.1	35.0	35.0	33.9	33.9	32.8	29.5	26.3	2.2
55°	10.9	10.9	10.9	12.0	12.0	13.1	13.1	13.1	13.1	12.0	0.0
57.5°	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	0.0
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	1.1	0.0	1.1	1.1	0.0	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1



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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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	41.6	41.6	41.6	41.6	41.6	41.6
2.5°	48.1	42.7	36.1	30.6	29.5	28.4
5°	53.6	39.4	29.5	24.1	21.9	20.8
7.5°	58.0	36.1	24.1	17.5	15.3	14.2
10°	60.2	31.7	19.7	13.1	9.8	9.8
12.5°	61.3	27.4	14.2	8.8	5.5	5.5
15°	60.2	23.0	10.9	4.4	1.1	1.1
17.5°	54.7	18.6	6.6	1.1	0.0	0.0
20°	47.0	15.3	4.4	0.0	0.0	0.0
21°	44.9	13.1	3.3	0.0	0.0	0.0
22°	41.6	12.0	2.2	0.0	0.0	0.0
23°	38.3	10.9	2.2	0.0	0.0	0.0
24°	35.0	9.8	1.1	0.0	0.0	0.0
25°	32.8	8.8	1.1	0.0	0.0	0.0
26°	30.6	7.7	1.1	0.0	0.0	0.0
27°	27.4	6.6	0.0	0.0	0.0	0.0
28°	25.2	5.5	0.0	0.0	0.0	0.0
29°	21.9	4.4	0.0	0.0	0.0	0.0
30°	18.6	3.3	0.0	0.0	0.0	0.0
31°	15.3	3.3	0.0	0.0	0.0	0.0
32°	13.1	2.2	0.0	0.0	0.0	0.0
33°	10.9	2.2	0.0	0.0	0.0	0.0
34°	9.8	2.2	0.0	0.0	0.0	0.0
35°	8.8	2.2	0.0	0.0	0.0	0.0
36°	6.6	1.1	0.0	0.0	0.0	0.0
37°	5.5	1.1	0.0	0.0	0.0	0.0
38°	4.4	1.1	0.0	0.0	0.0	0.0
39°	3.3	0.0	0.0	0.0	0.0	0.0
40°	3.3	0.0	0.0	0.0	0.0	0.0
42.5°	1.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.1	0.0	0.0	1.1	1.1
47.5°	0.0	1.1	0.0	0.0	1.1	2.2
50°	0.0	1.1	1.1	1.1	2.2	3.3
52.5°	0.0	2.2	1.1	1.1	3.3	3.3
55°	1.1	2.2	1.1	2.2	4.4	4.4
57.5°	1.1	2.2	2.2	3.3	4.4	5.5
60°	2.2	3.3	3.3	3.3	5.5	5.5
62.5°	2.2	3.3	4.4	4.4	5.5	6.6
65°	2.2	4.4	4.4	4.4	5.5	6.6
67.5°	3.3	4.4	4.4	4.4	5.5	6.6
70°	3.3	4.4	4.4	4.4	5.5	5.5
72.5°	3.3	4.4	3.3	4.4	4.4	5.5
75°	3.3	4.4	3.3	3.3	4.4	4.4
77.5°	2.2	3.3	3.3	2.2	3.3	3.3
80°	2.2	3.3	2.2	2.2	3.3	3.3



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.2	3.3	2.2	1.1	2.2	2.2
85°	2.2	3.3	2.2	1.1	1.1	1.1
87.5°	2.2	3.3	2.2	1.1	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)