

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: P1317426

Luminaire Tested: LDSQA3D13R159827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

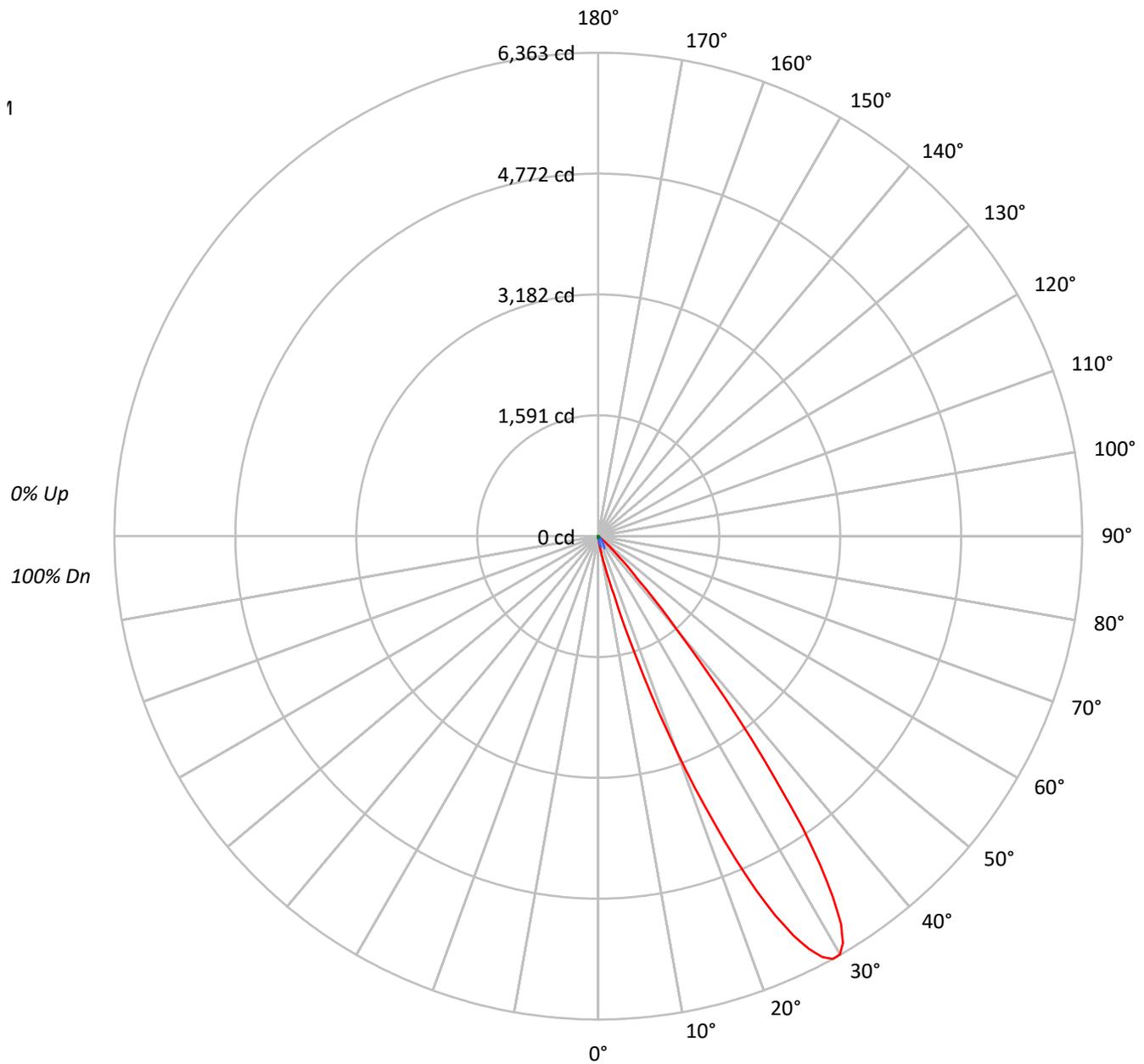
Test Method: LM-79-2019  
Report Number: P1317426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R159827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 695.1 lumens  
Efficiency: N/A  
Efficacy: 47.9 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
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 (Ain): 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	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	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	47	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	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

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

	0°	45°	90°	135°	180°
0°	3961	3961	3961	3961	3961
5°	8540	6310	3734	1988	1642
10°	37826	11944	2955	822	595
15°	143084	27601	2050	357	250
20°	550266	38909	1246	128	128
25°	1046382	36485	646	0	0
30°	1264049	29452	278	0	0
35°	985881	20036	147	0	0
40°	359758	9870	157	0	157
45°	92382	2971	170	0	341
50°	15567	375	188	188	536
55°	2042	0	420	601	1021
60°	241	241	689	930	1412
65°	285	285	1100	1386	1671
70°	352	352	1360	1360	1712
75°	466	466	1797	1331	1797
80°	0	694	1984	1389	1984
85°	0	1383	3952	1383	1383

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 92382 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	53.3	7.7
20°-30°	295.4	42.5
30°-40°	285.4	41.1
40°-50°	49.6	7.1
50°-60°	3.6	0.5
60°-70°	2.1	0.3
70°-80°	1.7	0.2
80°-90°	0.9	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°	351.8	50.6
0°-40°	637.2	91.7
0°-60°	690.4	99.3
0°-90°	695.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	695.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	49	36	22	12	10	10
15°	802	155	12	2	1	358
25°	5506	192	3	0	0	2462
35°	4689	95	1	0	0	2697
45°	379	12	1	0	1	407
55°	7	0	1	2	3	13
65°	1	1	3	3	4	1
75°	1	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°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	33.8	32.5	33.1	33.1	33.1	33.1	33.1	31.8	31.8	32.5	29.1
5°	49.4	49.4	48.7	49.4	49.4	48.7	47.3	46.6	46.6	45.3	36.5
7.5°	98.7	97.4	97.4	96.0	89.2	87.2	85.9	82.5	76.4	75.0	47.3
10°	216.3	217.0	212.3	206.2	205.5	195.4	192.0	185.9	174.4	162.9	68.3
12.5°	392.8	384.0	372.5	373.2	353.6	346.8	331.3	314.4	296.8	278.5	112.2
15°	802.5	777.5	792.3	755.8	714.6	667.9	620.6	561.1	510.4	456.3	154.8
17.5°	1690.2	1714.5	1673.2	1517.1	1421.1	1308.2	1149.3	995.8	864.7	759.2	189.3
20°	3002.4	3038.2	2898.3	2762.4	2529.1	2274.9	2009.9	1709.8	1422.4	1173.6	212.3
21°	3550.7	3529.0	3471.6	3253.9	2984.8	2690.0	2365.5	2034.3	1686.1	1362.9	214.3
22°	4080.7	4090.8	3957.0	3729.1	3449.3	3122.7	2726.6	2317.5	1942.3	1517.1	210.9
23°	4608.7	4641.2	4464.0	4250.4	3898.2	3529.7	3071.3	2629.9	2166.1	1693.5	204.2
24°	5097.5	5075.2	4955.5	4686.4	4309.9	3878.6	3402.6	2867.2	2350.0	1844.3	198.8
25°	5506.5	5503.8	5315.9	5054.2	4623.6	4145.6	3621.0	3061.2	2507.5	1946.4	192.0
26°	5841.2	5786.4	5638.3	5319.2	4894.0	4389.7	3800.1	3202.5	2596.1	1997.8	185.2
27°	6099.4	6060.2	5861.4	5529.5	5085.3	4527.6	3915.1	3272.8	2636.6	2014.7	176.5
28°	6273.2	6230.6	6019.0	5676.9	5190.8	4614.1	3975.9	3302.6	2636.6	1998.4	168.3
29°	6363.1	6304.9	6094.0	5727.6	5215.1	4624.3	3961.0	3273.5	2595.4	1948.4	158.9
30°	6356.3	6284.0	6062.9	5681.6	5142.8	4541.1	3877.9	3168.7	2502.1	1874.0	148.1
31°	6246.8	6165.7	5918.9	5526.1	4993.4	4384.3	3721.0	3028.1	2374.3	1777.4	137.2
32°	6024.4	5921.6	5680.9	5289.5	4763.5	4149.7	3493.2	2811.1	2183.0	1636.1	125.7
33°	5662.0	5558.6	5300.3	4933.2	4452.5	3852.2	3191.0	2577.8	1965.3	1467.7	116.3
34°	5208.4	5113.7	4891.3	4521.5	4060.4	3475.6	2843.5	2255.3	1739.5	1300.7	106.1
35°	4689.2	4538.4	4336.9	4044.2	3594.6	3006.4	2468.3	1955.2	1506.9	1125.6	95.3
36°	3986.7	4013.8	3800.1	3441.8	3069.3	2608.2	2091.7	1630.0	1260.2	959.3	85.9
37°	3364.1	3321.5	3185.6	2908.4	2583.9	2126.2	1753.0	1381.9	1060.1	811.3	75.7
38°	2713.7	2723.2	2590.0	2377.0	2055.2	1748.3	1410.9	1135.1	887.0	690.3	66.3
39°	2124.2	2116.7	2080.9	1883.5	1592.1	1390.7	1143.2	941.1	738.9	582.1	56.1
40°	1600.2	1612.4	1528.6	1409.6	1239.9	1074.3	910.7	750.4	611.2	490.8	43.9
42.5°	778.1	797.1	741.6	711.2	636.2	571.3	482.0	393.5	334.6	289.4	19.6
45°	379.3	368.5	363.7	348.8	331.3	296.1	262.3	225.1	196.7	169.7	12.2
47.5°	194.0	188.6	188.6	182.5	176.5	165.0	148.1	135.9	122.4	105.5	4.7
50°	58.1	57.5	56.8	57.5	55.4	57.5	58.8	59.5	54.1	53.4	1.4
52.5°	23.0	23.7	23.0	25.0	25.0	24.3	25.0	24.3	23.7	21.0	0.0
55°	6.8	6.8	6.8	6.8	6.8	6.8	7.4	8.1	7.4	8.1	0.0
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	27.0	23.7	19.6	16.2	14.9	14.2
5°	29.1	21.6	14.9	11.5	10.1	9.5
7.5°	31.1	19.6	11.5	8.1	6.1	5.4
10°	32.5	16.9	8.8	4.7	3.4	3.4
12.5°	32.5	13.5	6.1	2.7	2.0	2.0
15°	31.8	11.5	4.1	2.0	1.4	1.4
17.5°	31.1	8.8	2.7	1.4	0.7	1.4
20°	29.1	6.8	1.4	0.7	0.7	0.7
21°	28.4	6.1	1.4	0.7	0.7	0.7
22°	27.0	5.4	0.7	0.0	0.7	0.7
23°	25.7	4.1	0.7	0.0	0.0	0.0
24°	23.7	3.4	0.7	0.0	0.0	0.0
25°	22.3	3.4	0.7	0.0	0.0	0.0
26°	21.0	2.0	0.0	0.0	0.0	0.0
27°	18.9	1.4	0.0	0.0	0.0	0.0
28°	17.6	1.4	0.0	0.0	0.0	0.0
29°	15.5	1.4	0.0	0.0	0.0	0.0
30°	13.5	1.4	0.0	0.0	0.0	0.0
31°	10.8	0.7	0.0	0.0	0.0	0.0
32°	8.8	0.7	0.0	0.0	0.0	0.0
33°	6.1	0.7	0.0	0.0	0.0	0.0
34°	4.1	0.7	0.0	0.0	0.0	0.0
35°	3.4	0.7	0.0	0.0	0.0	0.0
36°	2.0	0.7	0.0	0.0	0.0	0.7
37°	2.0	0.7	0.0	0.0	0.0	0.7
38°	1.4	0.7	0.0	0.0	0.0	0.7
39°	0.7	0.7	0.0	0.0	0.0	0.7
40°	0.7	0.7	0.0	0.0	0.0	0.7
42.5°	0.0	0.7	0.0	0.0	0.7	1.4
45°	0.0	0.7	0.0	0.0	0.7	1.4
47.5°	0.0	0.7	0.0	0.0	1.4	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.0
52.5°	0.0	1.4	0.7	1.4	2.0	2.7
55°	0.7	1.4	1.4	2.0	2.7	3.4
57.5°	0.7	2.0	2.0	2.7	3.4	3.4
60°	1.4	2.0	2.7	2.7	4.1	4.1
62.5°	1.4	2.7	2.7	2.7	4.1	4.1
65°	1.4	2.7	2.7	3.4	4.1	4.1
67.5°	1.4	2.7	2.7	2.7	3.4	4.1
70°	1.4	2.7	2.0	2.7	3.4	3.4
72.5°	1.4	2.7	2.0	2.0	2.7	3.4
75°	1.4	2.7	2.0	2.0	2.7	2.7
77.5°	1.4	2.0	2.0	1.4	2.0	2.0
80°	1.4	2.0	1.4	1.4	2.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.4	2.0	1.4	0.7	1.4	1.4
85°	1.4	2.0	1.4	0.7	0.7	0.7
87.5°	1.4	2.0	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)