

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: P1308090

Luminaire Tested: LDSQA3D13R209027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

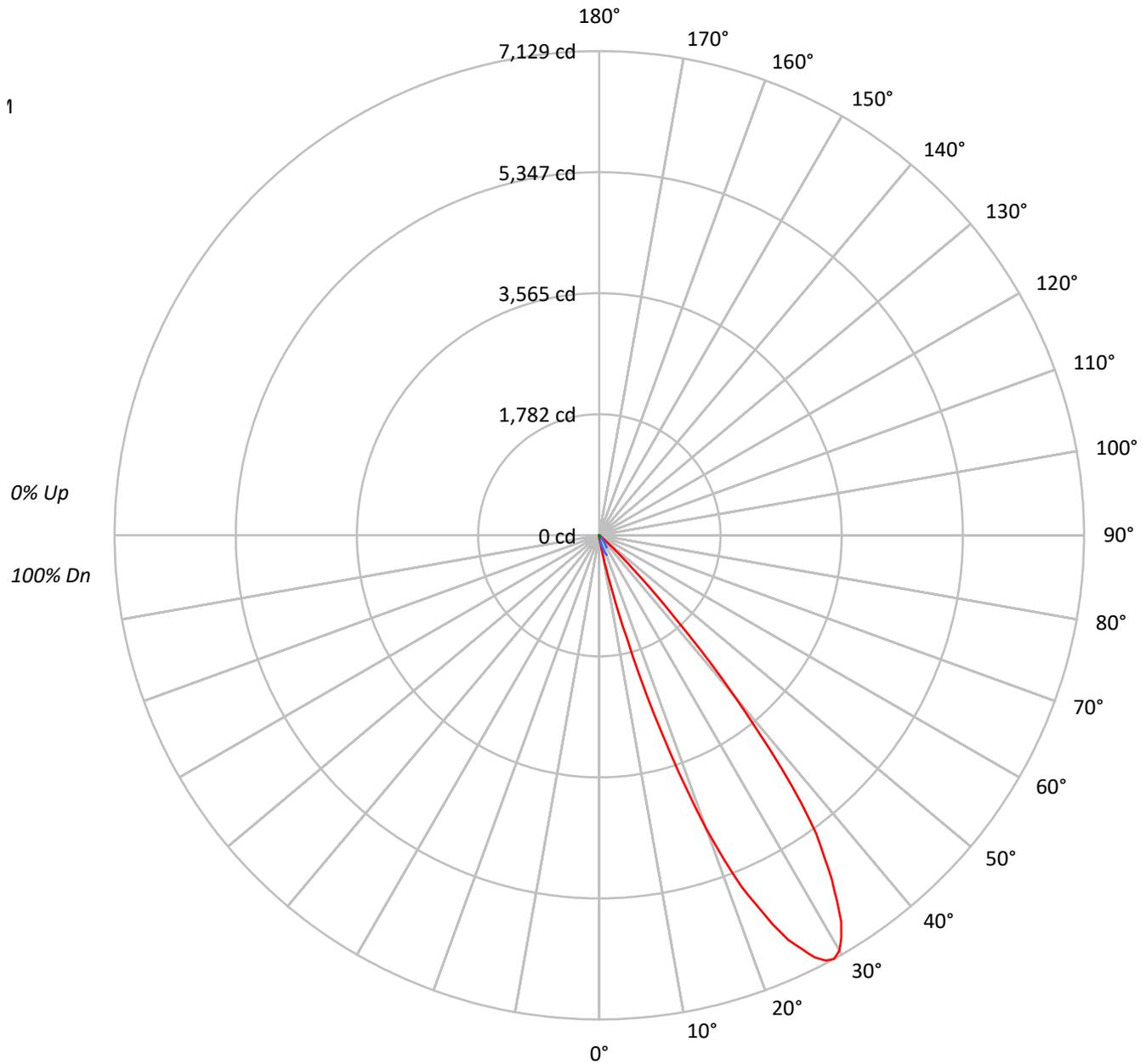
Test Method: LM-79-2019  
Report Number: P1308090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R209027DE010 3LSQCA30R 1MW  
Description: 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: 999.9 lumens  
Efficiency: N/A  
Efficacy: 68.5 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): 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				
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	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	5942	5942	5942	5942	5942
5°	13640	10200	5653	3458	2974
10°	43003	17768	4599	1906	1434
15°	278555	32842	3405	642	160
20°	840685	56192	2328	0	0
25°	1248513	56723	1387	0	0
30°	1404011	43114	537	0	0
35°	1211411	25755	378	0	0
40°	697574	8768	0	0	0
45°	170151	3532	219	0	219
50°	20416	965	241	241	723
55°	2732	0	540	540	1081
60°	310	0	930	930	1550
65°	367	367	1467	1467	2201
70°	453	453	1813	1813	2266
75°	0	599	2396	1797	2396
80°	0	893	2678	1785	2678
85°	0	1778	5335	1778	1778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 171247 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.6	0.5
10°-20°	92.7	9.3
20°-30°	403.9	40.4
30°-40°	406.8	40.7
40°-50°	81.6	8.2
50°-60°	4.1	0.4
60°-70°	2.7	0.3
70°-80°	2.4	0.2
80°-90°	1.2	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°	501.2	50.1
0°-40°	908.0	90.8
0°-60°	993.7	99.4
0°-90°	999.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	999.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	79	59	33	20	17	12
15°	1562	184	19	4	1	612
25°	6570	298	7	0	0	2962
35°	5762	122	2	0	0	3428
45°	699	14	1	0	1	761
55°	9	0	2	2	4	17
65°	1	1	4	4	5	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°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
2.5°	51.7	51.7	50.8	50.8	49.9	50.8	49.0	49.9	49.9	49.0	44.5
5°	78.9	80.7	79.8	79.8	78.9	79.8	78.0	76.2	74.4	74.4	59.0
7.5°	129.7	128.8	127.0	127.9	125.2	123.4	121.6	120.7	115.2	112.5	77.1
10°	245.9	251.3	246.8	245.9	229.5	228.6	217.7	202.3	188.7	181.4	101.6
12.5°	676.8	705.8	660.5	638.7	626.0	577.0	556.1	502.6	450.9	411.9	128.8
15°	1562.3	1633.9	1542.3	1548.7	1472.4	1332.7	1210.3	1105.0	980.7	855.5	184.2
17.5°	3061.0	3003.0	2953.1	2868.7	2713.5	2508.5	2244.5	1976.9	1745.5	1503.3	256.7
20°	4587.0	4535.3	4421.9	4237.7	4039.9	3736.0	3422.1	3020.2	2631.0	2266.3	306.6
21°	5112.3	5095.0	4909.1	4795.7	4490.8	4200.5	3838.5	3408.5	2970.3	2538.4	314.8
22°	5581.3	5477.9	5378.1	5210.3	4907.2	4591.5	4188.7	3736.0	3260.6	2780.7	315.7
23°	5906.1	5858.9	5764.6	5575.0	5273.8	4902.7	4478.1	4004.5	3503.7	2952.1	313.0
24°	6265.4	6205.5	6067.6	5846.2	5542.3	5175.8	4691.3	4221.4	3677.0	3096.4	305.7
25°	6570.2	6476.8	6313.5	6074.9	5742.8	5364.5	4877.3	4361.1	3797.7	3193.5	298.5
26°	6768.0	6717.2	6507.6	6248.1	5892.5	5502.4	5005.2	4468.1	3875.7	3237.9	286.7
27°	6973.9	6880.5	6674.5	6376.1	5990.5	5592.2	5077.8	4519.9	3902.9	3239.7	272.2
28°	7091.9	6990.3	6757.1	6443.2	6054.0	5642.1	5119.5	4536.2	3897.5	3211.6	254.9
29°	7129.1	7001.1	6773.4	6454.1	6069.4	5645.7	5113.2	4512.6	3849.4	3142.7	235.0
30°	7060.1	6929.5	6713.6	6402.4	6020.4	5600.4	5054.2	4434.6	3764.1	3043.8	216.8
31°	6909.5	6798.8	6590.2	6278.1	5911.6	5494.2	4920.9	4306.7	3619.0	2911.3	196.0
32°	6710.8	6602.0	6396.9	6114.8	5741.9	5320.9	4738.5	4107.1	3448.4	2713.5	175.1
33°	6412.4	6349.8	6165.6	5896.1	5523.3	5073.3	4493.5	3868.5	3205.3	2494.0	157.0
34°	6110.2	6031.3	5902.5	5607.6	5206.6	4757.6	4174.2	3539.1	2908.6	2248.1	139.7
35°	5761.9	5714.7	5512.4	5276.5	4873.7	4414.6	3834.9	3218.9	2562.9	1974.1	122.5
36°	5424.4	5351.8	5121.4	4871.9	4480.8	3984.6	3412.1	2833.3	2264.5	1717.4	104.3
37°	4934.5	4823.8	4659.6	4396.5	3939.2	3516.5	2993.9	2456.8	1897.0	1439.8	84.4
38°	4358.4	4306.7	4078.9	3814.0	3435.7	3034.7	2517.6	2062.1	1565.0	1202.1	64.4
39°	3678.8	3677.9	3460.2	3268.8	2898.6	2537.5	2071.2	1673.9	1291.9	968.0	49.9
40°	3102.8	2995.7	2861.4	2621.0	2337.0	2030.4	1622.1	1310.1	1002.5	780.2	39.0
42.5°	1626.7	1617.6	1538.7	1358.1	1199.4	1018.8	810.2	675.0	528.0	430.0	24.5
45°	698.6	703.1	648.7	621.5	559.8	484.5	409.2	341.1	292.1	236.8	14.5
47.5°	176.9	169.7	167.8	174.2	174.2	168.7	151.5	142.4	131.5	120.7	8.2
50°	76.2	74.4	72.6	72.6	68.0	65.3	60.8	55.3	50.8	45.4	3.6
52.5°	28.1	29.0	29.9	29.0	29.0	28.1	28.1	27.2	24.5	21.8	1.8
55°	9.1	9.1	9.1	10.0	10.0	10.9	10.9	10.9	10.9	10.0	0.0
57.5°	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7	3.6	3.6	0.0
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.9	0.0	0.9	0.9	0.0	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9



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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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	34.5	34.5	34.5	34.5	34.5	34.5
2.5°	39.9	35.4	29.9	25.4	24.5	23.6
5°	44.5	32.7	24.5	20.0	18.1	17.2
7.5°	48.1	29.9	20.0	14.5	12.7	11.8
10°	49.9	26.3	16.3	10.9	8.2	8.2
12.5°	50.8	22.7	11.8	7.3	4.5	4.5
15°	49.9	19.1	9.1	3.6	0.9	0.9
17.5°	45.4	15.4	5.4	0.9	0.0	0.0
20°	39.0	12.7	3.6	0.0	0.0	0.0
21°	37.2	10.9	2.7	0.0	0.0	0.0
22°	34.5	10.0	1.8	0.0	0.0	0.0
23°	31.8	9.1	1.8	0.0	0.0	0.0
24°	29.0	8.2	0.9	0.0	0.0	0.0
25°	27.2	7.3	0.9	0.0	0.0	0.0
26°	25.4	6.4	0.9	0.0	0.0	0.0
27°	22.7	5.4	0.0	0.0	0.0	0.0
28°	20.9	4.5	0.0	0.0	0.0	0.0
29°	18.1	3.6	0.0	0.0	0.0	0.0
30°	15.4	2.7	0.0	0.0	0.0	0.0
31°	12.7	2.7	0.0	0.0	0.0	0.0
32°	10.9	1.8	0.0	0.0	0.0	0.0
33°	9.1	1.8	0.0	0.0	0.0	0.0
34°	8.2	1.8	0.0	0.0	0.0	0.0
35°	7.3	1.8	0.0	0.0	0.0	0.0
36°	5.4	0.9	0.0	0.0	0.0	0.0
37°	4.5	0.9	0.0	0.0	0.0	0.0
38°	3.6	0.9	0.0	0.0	0.0	0.0
39°	2.7	0.0	0.0	0.0	0.0	0.0
40°	2.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.9	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.9	0.0	0.0	0.9	0.9
47.5°	0.0	0.9	0.0	0.0	0.9	1.8
50°	0.0	0.9	0.9	0.9	1.8	2.7
52.5°	0.0	1.8	0.9	0.9	2.7	2.7
55°	0.9	1.8	0.9	1.8	3.6	3.6
57.5°	0.9	1.8	1.8	2.7	3.6	4.5
60°	1.8	2.7	2.7	2.7	4.5	4.5
62.5°	1.8	2.7	3.6	3.6	4.5	5.4
65°	1.8	3.6	3.6	3.6	4.5	5.4
67.5°	2.7	3.6	3.6	3.6	4.5	5.4
70°	2.7	3.6	3.6	3.6	4.5	4.5
72.5°	2.7	3.6	2.7	3.6	3.6	4.5
75°	2.7	3.6	2.7	2.7	3.6	3.6
77.5°	1.8	2.7	2.7	1.8	2.7	2.7
80°	1.8	2.7	1.8	1.8	2.7	2.7



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)