

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: P1310309

Luminaire Tested: LDSQA3D13R159035DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

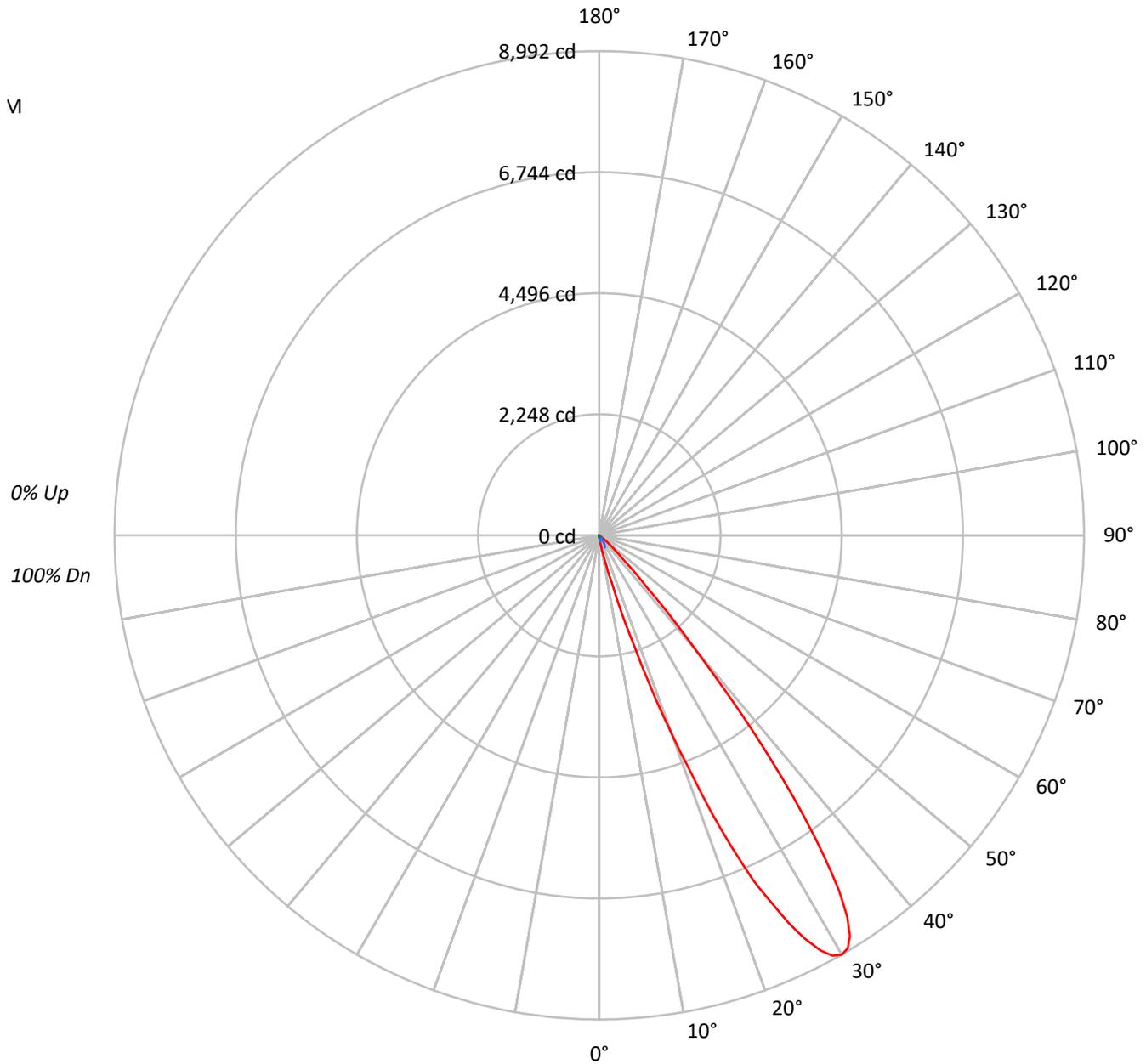
Test Method: LM-79-2019  
Report Number: P1310309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R159035DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 951.0 lumens  
Efficiency: N/A  
Efficacy: 65.1 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): 14.6  
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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	5856	5856	5856	5856	5856
5°	16942	12793	5014	2075	1383
10°	44070	19062	3323	0	0
15°	176158	31202	1783	0	0
20°	719741	46002	550	0	0
25°	1422768	45606	0	0	0
30°	1788259	35995	0	0	0
35°	1525790	22076	0	0	0
40°	628171	6969	0	0	0
45°	135906	2923	0	0	0
50°	17416	0	0	0	0
55°	1501	0	300	0	0
60°	0	0	689	0	0
65°	0	0	815	0	0
70°	0	504	1511	0	0
75°	0	665	1996	0	0
80°	0	992	2975	0	0
85°	0	1976	5928	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 142239 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.6	0.5
10°-20°	66.6	7.0
20°-30°	388.5	40.8
30°-40°	416.5	43.8
40°-50°	70.3	7.4
50°-60°	2.1	0.2
60°-70°	0.6	0.1
70°-80°	0.9	0.1
80°-90°	0.8	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°	459.7	48.3
0°-40°	876.2	92.1
0°-60°	948.6	99.7
0°-90°	951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	98	74	29	12	8	13
15°	988	175	10	0	0	457
25°	7487	240	0	0	0	3388
35°	7257	105	0	0	0	4171
45°	558	12	0	0	0	659
55°	5	0	1	0	0	13
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
2.5°	62.0	63.0	64.0	64.0	64.0	64.0	63.0	63.0	63.0	63.0	62.0
5°	98.0	98.0	98.0	98.0	98.0	98.0	97.0	97.0	97.0	97.0	97.0
7.5°	140.0	138.0	139.0	136.0	138.0	137.0	136.0	138.0	138.0	133.0	133.0
10°	252.0	251.0	241.0	243.0	245.0	244.0	244.0	238.0	237.0	233.0	229.0
12.5°	486.0	497.0	505.0	505.0	486.0	493.0	480.0	483.0	485.0	479.0	458.0
15°	988.0	1006.0	987.0	1005.0	998.0	972.0	943.0	904.0	919.0	892.0	883.0
17.5°	2164.1	2205.1	2188.1	2105.1	2132.1	2068.1	2028.1	2013.1	1971.1	1846.1	1794.1
20°	3927.1	3977.1	3930.1	3833.1	3864.1	3743.1	3712.1	3683.1	3497.1	3429.1	3211.1
21°	4669.1	4710.1	4728.1	4627.1	4565.1	4469.1	4389.1	4363.1	4250.1	4119.1	3895.1
22°	5565.2	5517.2	5409.2	5423.2	5331.1	5252.1	5141.1	5036.1	4910.1	4727.1	4542.1
23°	6307.2	6251.2	6200.2	6138.2	6039.2	5983.2	5824.2	5709.2	5545.2	5349.1	5171.1
24°	6998.2	6912.2	6880.2	6770.2	6742.2	6616.2	6487.2	6337.2	6139.2	5930.2	5733.2
25°	7487.2	7500.2	7472.2	7459.2	7316.2	7187.2	7059.2	6828.2	6659.2	6474.2	6171.2
26°	8011.2	8017.2	8003.2	7907.2	7778.2	7652.2	7487.2	7286.2	7041.2	6836.2	6562.2
27°	8412.2	8388.2	8368.2	8254.2	8148.2	7989.2	7839.2	7601.2	7362.2	7118.2	6800.2
28°	8732.2	8687.2	8662.2	8564.2	8440.2	8245.2	8061.2	7839.2	7600.2	7338.2	6994.2
29°	8925.2	8877.2	8849.2	8741.2	8598.2	8427.2	8241.2	7997.2	7740.2	7448.2	7102.2
30°	8992.3	8964.3	8920.2	8808.2	8660.2	8482.2	8291.2	8026.2	7757.2	7458.2	7092.2
31°	8948.3	8912.2	8870.2	8749.2	8589.2	8419.2	8197.2	7919.2	7636.2	7351.2	6963.2
32°	8773.2	8751.2	8700.2	8538.2	8408.2	8188.2	7969.2	7709.2	7400.2	7094.2	6743.2
33°	8445.2	8409.2	8365.2	8217.2	8051.2	7840.2	7622.2	7356.2	7049.2	6726.2	6340.2
34°	7945.2	7899.2	7844.2	7745.2	7533.2	7350.2	7098.2	6787.2	6533.2	6223.2	5874.2
35°	7257.2	7190.2	7124.2	7049.2	6811.2	6642.2	6472.2	6201.2	5956.2	5664.2	5269.1
36°	6485.2	6459.2	6405.2	6207.2	6130.2	5900.2	5763.2	5452.2	5254.1	4968.1	4642.1
37°	5612.2	5459.2	5537.2	5426.2	5194.1	5122.1	4959.1	4692.1	4478.1	4176.1	3940.1
38°	4676.1	4576.1	4631.1	4519.1	4398.1	4232.1	4108.1	3913.1	3673.1	3436.1	3212.1
39°	3706.1	3625.1	3685.1	3609.1	3425.1	3356.1	3246.1	3097.1	2904.1	2719.1	2507.1
40°	2794.1	2690.1	2770.1	2662.1	2578.1	2465.1	2409.1	2272.1	2152.1	2041.1	1906.1
42.5°	1276.0	1265.0	1247.0	1208.0	1199.0	1200.0	1131.0	1086.0	1025.0	954.0	911.0
45°	558.0	572.0	584.0	562.0	561.0	549.0	545.0	515.0	503.0	480.0	452.0
47.5°	275.0	280.0	277.0	283.0	278.0	270.0	268.0	264.0	252.0	251.0	238.0
50°	65.0	64.0	64.0	65.0	64.0	64.0	63.0	61.0	60.0	61.0	58.0
52.5°	21.0	22.0	21.0	20.0	21.0	22.0	21.0	21.0	21.0	21.0	21.0
55°	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	5.0	5.0	5.0
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°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
2.5°	61.0	52.0	43.0	34.0	25.0	20.0	19.0	18.0
5°	92.0	74.0	49.0	29.0	17.0	12.0	9.0	8.0
7.5°	124.0	92.0	54.0	24.0	12.0	5.0	2.0	1.0
10°	178.0	109.0	56.0	19.0	6.0	0.0	0.0	0.0
12.5°	349.0	125.0	55.0	15.0	1.0	0.0	0.0	0.0
15°	580.0	175.0	51.0	10.0	0.0	0.0	0.0	0.0
17.5°	950.0	226.0	44.0	7.0	0.0	0.0	0.0	0.0
20°	1473.0	251.0	34.0	3.0	0.0	0.0	0.0	0.0
21°	1727.0	253.0	30.0	2.0	0.0	0.0	0.0	0.0
22°	1947.1	253.0	26.0	1.0	0.0	0.0	0.0	0.0
23°	2151.1	250.0	23.0	0.0	0.0	0.0	0.0	0.0
24°	2319.1	246.0	21.0	0.0	0.0	0.0	0.0	0.0
25°	2445.1	240.0	19.0	0.0	0.0	0.0	0.0	0.0
26°	2503.1	232.0	16.0	0.0	0.0	0.0	0.0	0.0
27°	2532.1	221.0	14.0	0.0	0.0	0.0	0.0	0.0
28°	2512.1	209.0	12.0	0.0	0.0	0.0	0.0	0.0
29°	2462.1	196.0	9.0	0.0	0.0	0.0	0.0	0.0
30°	2397.1	181.0	7.0	0.0	0.0	0.0	0.0	0.0
31°	2302.1	166.0	5.0	0.0	0.0	0.0	0.0	0.0
32°	2172.1	151.0	4.0	0.0	0.0	0.0	0.0	0.0
33°	1998.1	135.0	2.0	0.0	0.0	0.0	0.0	0.0
34°	1783.0	119.0	1.0	0.0	0.0	0.0	0.0	0.0
35°	1542.0	105.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	1335.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	1127.0	72.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	944.0	57.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	781.0	46.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	647.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	358.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	217.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	126.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0
65°	0.0	0.0	2.0	2.0	1.0	0.0	0.0	0.0
67.5°	0.0	0.0	2.0	3.0	1.0	0.0	0.0	0.0
70°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
72.5°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
75°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
77.5°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
80°	0.0	1.0	2.0	3.0	1.0	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°
82.5°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
85°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
87.5°	0.0	1.0	2.0	3.0	1.0	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)