

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: P1325756

Luminaire Tested: LDSQA3D09R15W2N902750DE010 3LSQCA30R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

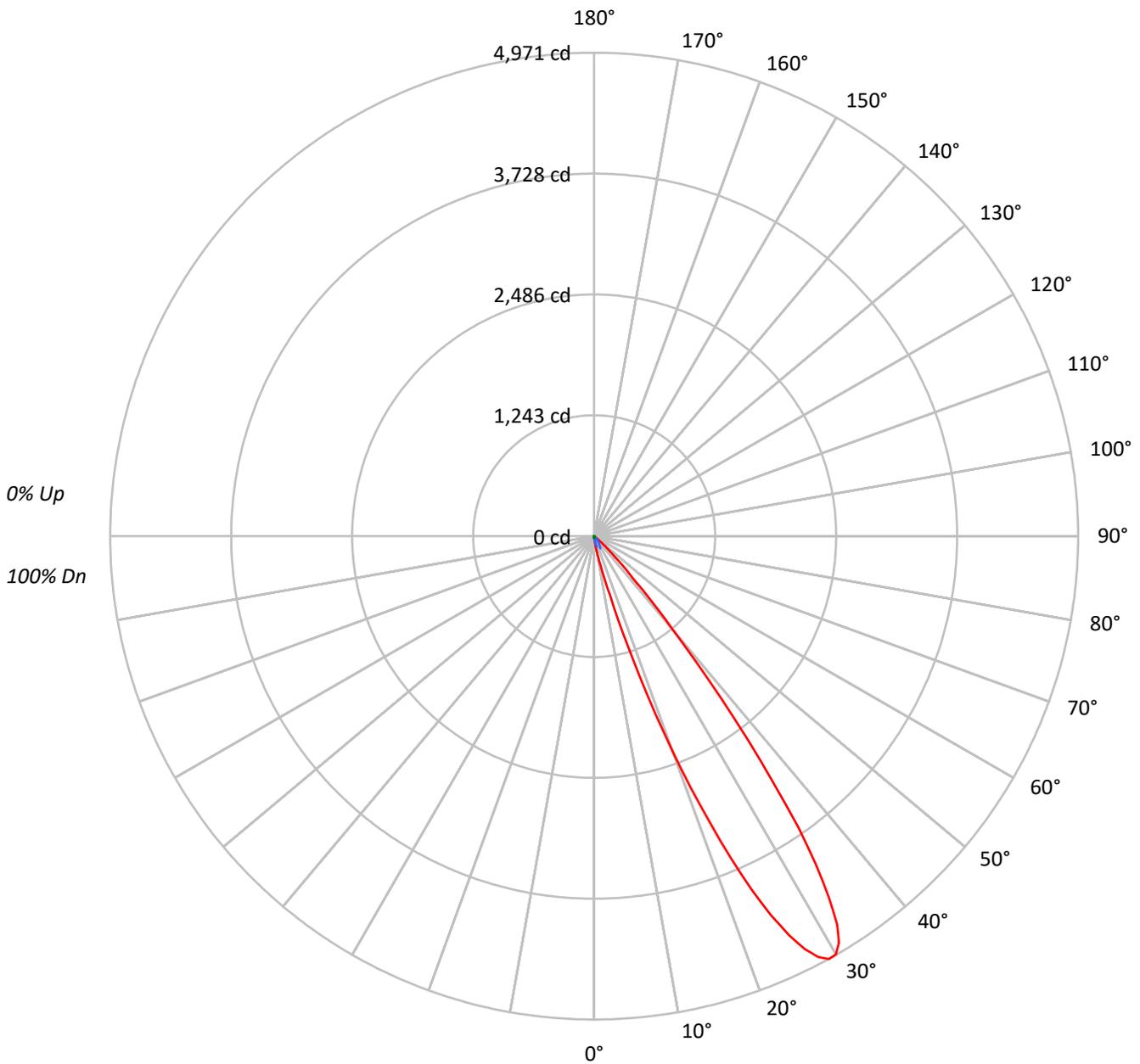
Test Method: LM-79-2019  
Report Number: P1325756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R15W2N902750DE010 3LSQCA30R 1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 543.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 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): 9  
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	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	93	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	69	64	72	67	64	71	66	63	61				
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55				
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41				
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37				

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

	0°	45°	90°	135°	180°
0°	3100	3100	3100	3100	3100
5°	6673	4927	2922	1556	1279
10°	29555	9321	2308	647	455
15°	111793	21574	1605	285	196
20°	429909	30405	971	92	92
25°	817533	28504	494	0	0
30°	987606	23009	219	0	0
35°	770254	15663	105	0	0
40°	281093	7711	112	0	112
45°	72167	2314	122	0	268
50°	12164	295	134	134	429
55°	1591	0	330	480	781
60°	172	172	551	723	1102
65°	204	204	856	1060	1304
70°	252	252	1057	1057	1309
75°	333	333	1397	1065	1397
80°	0	496	1587	1091	1587
85°	0	988	3162	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 72167 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	41.6	7.7
20°-30°	230.8	42.5
30°-40°	223.0	41.1
40°-50°	38.8	7.1
50°-60°	2.8	0.5
60°-70°	1.6	0.3
70°-80°	1.3	0.2
80°-90°	0.7	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°	274.8	50.6
0°-40°	497.8	91.7
0°-60°	539.4	99.3
0°-90°	543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	39	28	17	9	7	8
15°	627	121	9	2	1	279
25°	4302	150	3	0	0	1924
35°	3664	74	0	0	0	2107
45°	296	10	0	0	1	318
55°	5	0	1	2	3	10
65°	0	0	2	3	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	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°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	26.4	25.4	25.9	25.9	25.9	25.9	25.9	24.8	24.8	25.4	22.7
5°	38.6	38.6	38.0	38.6	38.6	38.0	37.0	36.4	36.4	35.4	28.5
7.5°	77.1	76.1	76.1	75.0	69.7	68.1	67.1	64.4	59.7	58.6	37.0
10°	169.0	169.6	165.9	161.1	160.6	152.7	150.0	145.3	136.3	127.3	53.3
12.5°	306.9	300.0	291.0	291.6	276.2	271.0	258.8	245.6	231.9	217.6	87.7
15°	627.0	607.4	619.1	590.5	558.3	521.9	484.9	438.4	398.8	356.5	121.0
17.5°	1320.5	1339.5	1307.3	1185.3	1110.3	1022.1	897.9	778.0	675.6	593.2	147.9
20°	2345.7	2373.7	2264.4	2158.2	1976.0	1777.4	1570.3	1335.8	1111.3	917.0	165.9
21°	2774.1	2757.2	2712.3	2542.2	2332.0	2101.7	1848.2	1589.4	1317.3	1064.9	167.4
22°	3188.2	3196.2	3091.6	2913.6	2694.9	2439.8	2130.2	1810.7	1517.5	1185.3	164.8
23°	3600.8	3626.1	3487.7	3320.8	3045.6	2757.7	2399.6	2054.7	1692.4	1323.1	159.5
24°	3982.6	3965.2	3871.7	3661.5	3367.3	3030.3	2658.4	2240.1	1836.0	1440.9	155.3
25°	4302.2	4300.1	4153.3	3948.8	3612.4	3238.9	2829.1	2391.7	1959.1	1520.7	150.0
26°	4563.7	4520.9	4405.2	4155.9	3823.7	3429.6	2969.0	2502.1	2028.3	1560.8	144.7
27°	4765.4	4734.8	4579.5	4320.2	3973.1	3537.4	3058.8	2557.0	2060.0	1574.0	137.9
28°	4901.2	4867.9	4702.6	4435.3	4055.5	3605.0	3106.4	2580.3	2060.0	1561.4	131.5
29°	4971.4	4926.0	4761.2	4474.9	4074.6	3612.9	3094.7	2557.6	2027.8	1522.3	124.1
30°	4966.2	4909.6	4736.9	4439.0	4018.0	3547.9	3029.8	2475.7	1954.9	1464.2	115.7
31°	4880.6	4817.2	4624.4	4317.5	3901.3	3425.4	2907.2	2365.8	1855.0	1388.6	107.2
32°	4706.8	4626.5	4438.5	4132.7	3721.7	3242.1	2729.2	2196.3	1705.6	1278.3	98.2
33°	4423.7	4342.9	4141.1	3854.3	3478.7	3009.7	2493.1	2014.0	1535.5	1146.7	90.9
34°	4069.3	3995.3	3821.5	3532.6	3172.4	2715.5	2221.6	1762.1	1359.1	1016.3	82.9
35°	3663.6	3545.8	3388.4	3159.7	2808.5	2348.9	1928.5	1527.6	1177.4	879.5	74.5
36°	3114.8	3135.9	2969.0	2689.1	2398.0	2037.8	1634.3	1273.5	984.6	749.5	67.1
37°	2628.3	2595.1	2488.9	2272.3	2018.8	1661.2	1369.6	1079.6	828.2	633.8	59.2
38°	2120.2	2127.6	2023.5	1857.2	1605.7	1365.9	1102.4	886.9	693.0	539.3	51.8
39°	1659.6	1653.8	1625.8	1471.6	1243.9	1086.5	893.2	735.3	577.3	454.8	43.8
40°	1250.3	1259.8	1194.3	1101.3	968.7	839.3	711.5	586.3	477.5	383.5	34.3
42.5°	608.0	622.8	579.4	555.7	497.0	446.3	376.6	307.4	261.5	226.1	15.3
45°	296.3	287.9	284.2	272.6	258.8	231.4	204.9	175.9	153.7	132.6	9.5
47.5°	151.6	147.4	147.4	142.6	137.9	128.9	115.7	106.2	95.6	82.4	3.7
50°	45.4	44.9	44.4	44.9	43.3	44.9	46.0	46.5	42.3	41.7	1.1
52.5°	18.0	18.5	18.0	19.5	19.5	19.0	19.5	19.0	18.5	16.4	0.0
55°	5.3	5.3	5.3	5.3	5.3	5.3	5.8	6.3	5.8	6.3	0.0
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	21.1	18.5	15.3	12.7	11.6	11.1
5°	22.7	16.9	11.6	9.0	7.9	7.4
7.5°	24.3	15.3	9.0	6.3	4.8	4.2
10°	25.4	13.2	6.9	3.7	2.6	2.6
12.5°	25.4	10.6	4.8	2.1	1.6	1.6
15°	24.8	9.0	3.2	1.6	1.1	1.1
17.5°	24.3	6.9	2.1	1.1	0.5	1.1
20°	22.7	5.3	1.1	0.5	0.5	0.5
21°	22.2	4.8	1.1	0.5	0.5	0.5
22°	21.1	4.2	0.5	0.0	0.5	0.5
23°	20.1	3.2	0.5	0.0	0.0	0.0
24°	18.5	2.6	0.5	0.0	0.0	0.0
25°	17.4	2.6	0.5	0.0	0.0	0.0
26°	16.4	1.6	0.0	0.0	0.0	0.0
27°	14.8	1.1	0.0	0.0	0.0	0.0
28°	13.7	1.1	0.0	0.0	0.0	0.0
29°	12.1	1.1	0.0	0.0	0.0	0.0
30°	10.6	1.1	0.0	0.0	0.0	0.0
31°	8.5	0.5	0.0	0.0	0.0	0.0
32°	6.9	0.5	0.0	0.0	0.0	0.0
33°	4.8	0.5	0.0	0.0	0.0	0.0
34°	3.2	0.5	0.0	0.0	0.0	0.0
35°	2.6	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.5	0.0	0.0	0.0	0.5
37°	1.6	0.5	0.0	0.0	0.0	0.5
38°	1.1	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.1
45°	0.0	0.5	0.0	0.0	0.5	1.1
47.5°	0.0	0.5	0.0	0.0	1.1	1.1
50°	0.0	0.5	0.5	0.5	1.1	1.6
52.5°	0.0	1.1	0.5	1.1	1.6	2.1
55°	0.5	1.1	1.1	1.6	2.1	2.6
57.5°	0.5	1.6	1.6	2.1	2.6	2.6
60°	1.1	1.6	2.1	2.1	3.2	3.2
62.5°	1.1	2.1	2.1	2.1	3.2	3.2
65°	1.1	2.1	2.1	2.6	3.2	3.2
67.5°	1.1	2.1	2.1	2.1	2.6	3.2
70°	1.1	2.1	1.6	2.1	2.6	2.6
72.5°	1.1	2.1	1.6	1.6	2.1	2.6
75°	1.1	2.1	1.6	1.6	2.1	2.1
77.5°	1.1	1.6	1.6	1.1	1.6	1.6
80°	1.1	1.6	1.1	1.1	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.6	1.1	0.5	1.1	1.1
85°	1.1	1.6	1.1	0.5	0.5	0.5
87.5°	1.1	1.6	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)