

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: P1327439

Luminaire Tested: LDSQA3D13R15W2N902765DE010 3LSQCA30R 1MMS\_3000K

Issue Date: 1/29/2026

**Test Information**

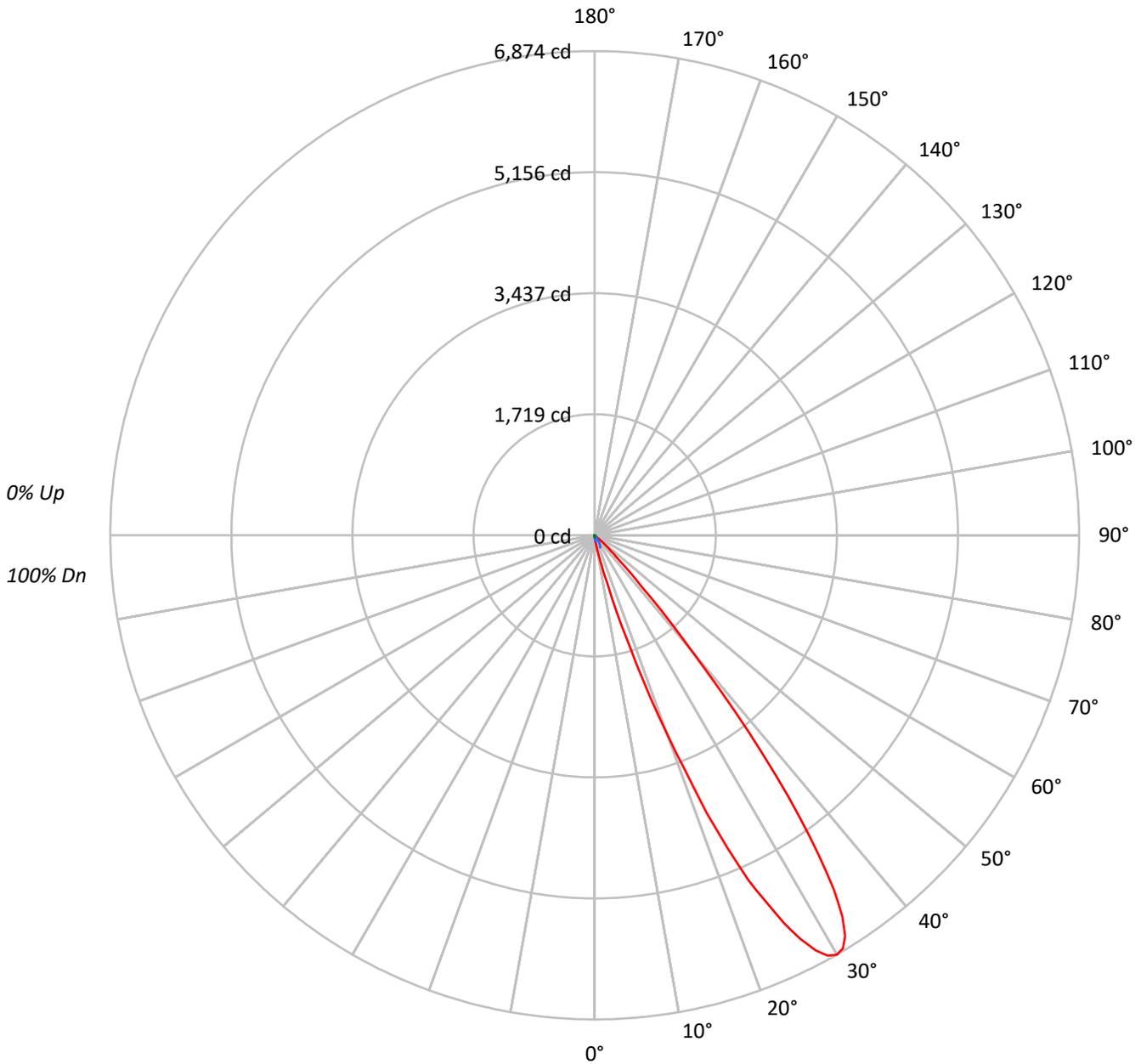
Test Method: LM-79-2019  
Report Number: P1327439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R15W2N902765DE010 3LSQCA30R 1MMS\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 727.0 lumens  
Efficiency: N/A  
Efficacy: 59.1 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): 12.3  
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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	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	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	4478	4478	4478	4478	4478
5°	12949	9785	3838	1591	1055
10°	33682	14567	2536	0	0
15°	134668	23856	1355	0	0
20°	550211	35171	422	0	0
25°	1087656	34870	0	0	0
30°	1367042	27523	0	0	0
35°	1166397	16883	0	0	0
40°	480217	5328	0	0	0
45°	103903	2241	0	0	0
50°	13316	0	0	0	0
55°	1141	0	240	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 108749 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	51.0	7.0
20°-30°	297.0	40.8
30°-40°	318.4	43.8
40°-50°	53.7	7.4
50°-60°	1.6	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.6	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°	351.4	48.3
0°-40°	669.8	92.1
0°-60°	725.2	99.7
0°-90°	727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	75	57	22	9	6	10
15°	755	134	8	0	0	349
25°	5724	184	0	0	0	2590
35°	5548	80	0	0	0	3188
45°	427	9	0	0	0	504
55°	4	0	1	0	0	10
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	47.4	48.2	48.9	48.9	48.9	48.9	48.2	48.2	48.2	48.2	47.4
5°	74.9	74.9	74.9	74.9	74.9	74.9	74.2	74.2	74.2	74.2	74.2
7.5°	107.0	105.5	106.3	104.0	105.5	104.7	104.0	105.5	105.5	101.7	101.7
10°	192.6	191.9	184.2	185.8	187.3	186.5	186.5	181.9	181.2	178.1	175.1
12.5°	371.5	379.9	386.1	386.1	371.5	376.9	367.0	369.2	370.8	366.2	350.1
15°	755.3	769.1	754.5	768.3	763.0	743.1	720.9	691.1	702.6	681.9	675.0
17.5°	1654.3	1685.7	1672.7	1609.2	1629.9	1580.9	1550.4	1538.9	1506.8	1411.2	1371.5
20°	3002.1	3040.3	3004.4	2930.3	2954.0	2861.4	2837.7	2815.6	2673.4	2621.4	2454.7
21°	3569.4	3600.7	3614.5	3537.2	3489.9	3416.5	3355.3	3335.4	3249.0	3148.9	2977.6
22°	4254.3	4217.6	4135.1	4145.8	4075.4	4015.0	3930.2	3849.9	3753.6	3613.7	3472.3
23°	4821.6	4778.8	4739.8	4692.4	4616.7	4573.9	4452.3	4364.4	4239.0	4089.2	3953.1
24°	5349.8	5284.1	5259.6	5175.5	5154.1	5057.8	4959.2	4844.5	4693.1	4533.4	4382.8
25°	5723.7	5733.6	5712.2	5702.3	5592.9	5494.3	5396.5	5219.9	5090.7	4949.2	4717.6
26°	6124.2	6128.8	6118.1	6044.7	5946.1	5849.8	5723.7	5570.0	5382.7	5226.0	5016.5
27°	6430.8	6412.5	6397.2	6310.0	6229.0	6107.4	5992.8	5810.8	5628.1	5441.6	5198.5
28°	6675.4	6641.0	6621.9	6547.0	6452.2	6303.1	6162.5	5992.8	5810.0	5609.8	5346.8
29°	6823.0	6786.3	6764.9	6682.3	6573.0	6442.3	6300.1	6113.5	5917.1	5693.8	5429.3
30°	6874.2	6852.8	6819.2	6733.5	6620.4	6484.3	6338.3	6135.7	5930.1	5701.5	5421.7
31°	6840.6	6813.0	6780.9	6688.4	6566.1	6436.2	6266.4	6053.9	5837.6	5619.7	5323.1
32°	6706.8	6690.0	6651.0	6527.1	6427.7	6259.6	6092.1	5893.4	5657.2	5423.2	5154.9
33°	6456.0	6428.5	6394.9	6281.7	6154.8	5993.5	5826.9	5623.5	5388.8	5141.9	4846.8
34°	6073.8	6038.6	5996.6	5920.9	5758.8	5618.9	5426.3	5188.5	4994.3	4757.4	4490.6
35°	5547.8	5496.6	5446.2	5388.8	5206.9	5077.7	4947.7	4740.5	4553.2	4330.0	4028.0
36°	4957.7	4937.8	4896.5	4745.1	4686.3	4510.4	4405.7	4167.9	4016.6	3797.9	3548.7
37°	4290.3	4173.3	4232.9	4148.1	3970.7	3915.7	3791.1	3586.9	3423.3	3192.5	3012.1
38°	3574.7	3498.3	3540.3	3454.7	3362.2	3235.3	3140.5	2991.4	2807.9	2626.8	2455.5
39°	2833.2	2771.2	2817.1	2759.0	2618.3	2565.6	2481.5	2367.6	2220.0	2078.6	1916.6
40°	2136.0	2056.5	2117.6	2035.0	1970.8	1884.4	1841.6	1736.9	1645.2	1560.3	1457.1
42.5°	975.5	967.1	953.3	923.5	916.6	917.4	864.6	830.2	783.6	729.3	696.4
45°	426.6	437.3	446.5	429.6	428.9	419.7	416.6	393.7	384.5	367.0	345.5
47.5°	210.2	214.1	211.8	216.3	212.5	206.4	204.9	201.8	192.6	191.9	181.9
50°	49.7	48.9	48.9	49.7	48.9	48.9	48.2	46.6	45.9	46.6	44.3
52.5°	16.1	16.8	16.1	15.3	16.1	16.8	16.1	16.1	16.1	16.1	16.1
55°	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.1	3.8	3.8	3.8
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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	46.6	39.8	32.9	26.0	19.1	15.3	14.5	13.8
5°	70.3	56.6	37.5	22.2	13.0	9.2	6.9	6.1
7.5°	94.8	70.3	41.3	18.3	9.2	3.8	1.5	0.8
10°	136.1	83.3	42.8	14.5	4.6	0.0	0.0	0.0
12.5°	266.8	95.6	42.0	11.5	0.8	0.0	0.0	0.0
15°	443.4	133.8	39.0	7.6	0.0	0.0	0.0	0.0
17.5°	726.3	172.8	33.6	5.4	0.0	0.0	0.0	0.0
20°	1126.1	191.9	26.0	2.3	0.0	0.0	0.0	0.0
21°	1320.3	193.4	22.9	1.5	0.0	0.0	0.0	0.0
22°	1488.4	193.4	19.9	0.8	0.0	0.0	0.0	0.0
23°	1644.4	191.1	17.6	0.0	0.0	0.0	0.0	0.0
24°	1772.8	188.1	16.1	0.0	0.0	0.0	0.0	0.0
25°	1869.2	183.5	14.5	0.0	0.0	0.0	0.0	0.0
26°	1913.5	177.4	12.2	0.0	0.0	0.0	0.0	0.0
27°	1935.7	169.0	10.7	0.0	0.0	0.0	0.0	0.0
28°	1920.4	159.8	9.2	0.0	0.0	0.0	0.0	0.0
29°	1882.1	149.8	6.9	0.0	0.0	0.0	0.0	0.0
30°	1832.5	138.4	5.4	0.0	0.0	0.0	0.0	0.0
31°	1759.8	126.9	3.8	0.0	0.0	0.0	0.0	0.0
32°	1660.5	115.4	3.1	0.0	0.0	0.0	0.0	0.0
33°	1527.4	103.2	1.5	0.0	0.0	0.0	0.0	0.0
34°	1363.1	91.0	0.8	0.0	0.0	0.0	0.0	0.0
35°	1178.8	80.3	0.0	0.0	0.0	0.0	0.0	0.0
36°	1020.6	68.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	861.6	55.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	721.7	43.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	597.1	35.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	494.6	23.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	273.7	16.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	165.9	9.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	96.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.5	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.5	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.5	2.3	0.8	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	0.8	1.5	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.5	2.3	0.8	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)