

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: P1327357

Luminaire Tested: LDSQA3D13R15W2N902750DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327357
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: LDSQA3D13R15W2N902750DE010 3LSQCA30R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

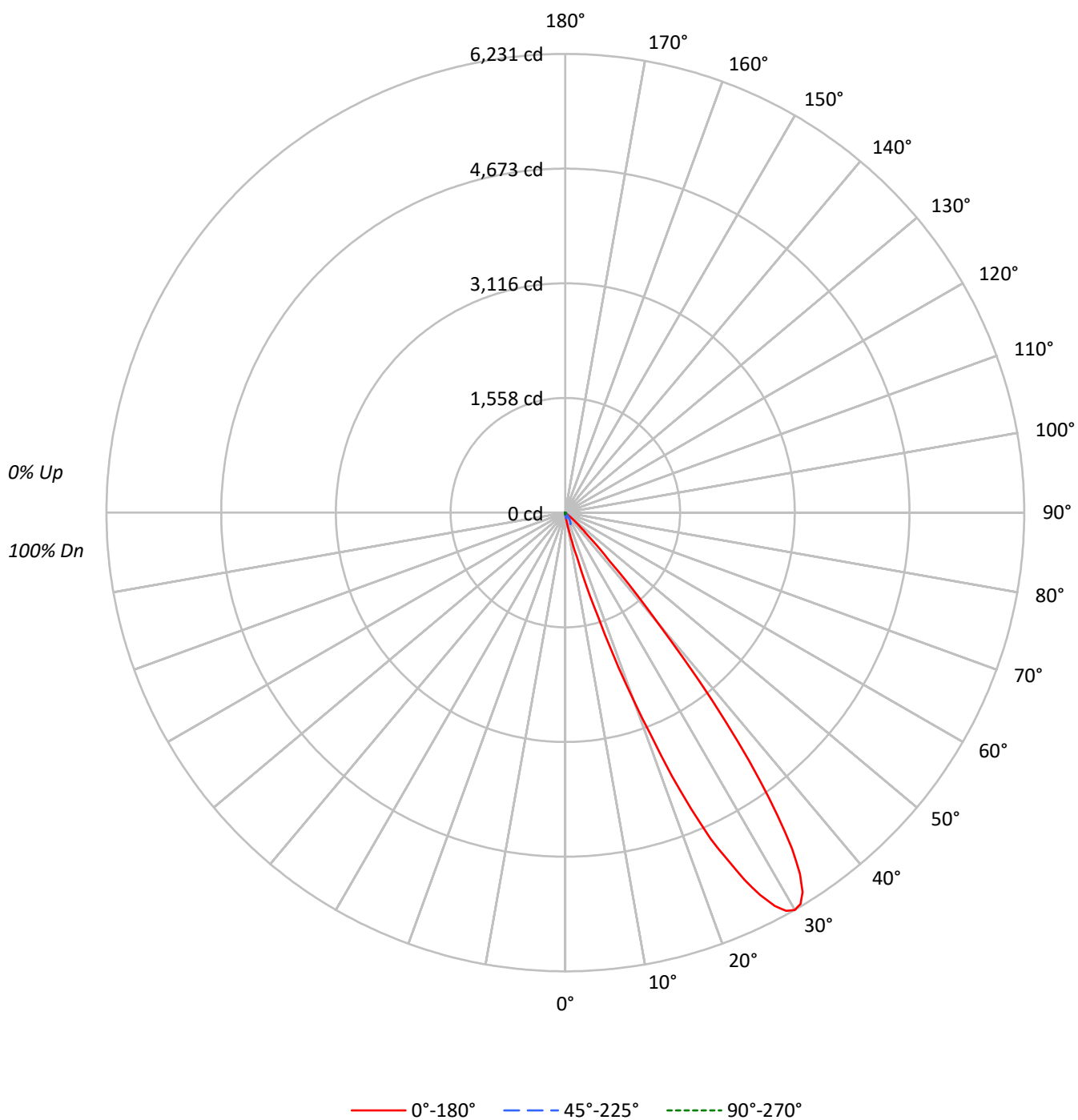
Lumens per Lamp: N/A
Luminaire Lumens: 659.0 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
Input Voltage (V): NR
Input Current (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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4064	4064	4064	4064	4064
5°	11739	8869	3475	1435	951
10°	30534	13203	2308	0	0
15°	122081	21628	1230	0	0
20°	498748	31872	385	0	0
25°	985915	31601	0	0	0
30°	1239171	24938	0	0	0
35°	1057301	15306	0	0	0
40°	435298	4834	0	0	0
45°	94184	2022	0	0	0
50°	12057	0	0	0	0
55°	1051	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1057	0	0
75°	0	466	1397	0	0
80°	0	694	2083	0	0
85°	0	1383	4150	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 98569 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	46.2	7.0
20°-30°	269.2	40.8
30°-40°	288.6	43.8
40°-50°	48.7	7.4
50°-60°	1.5	0.2
60°-70°	0.4	0.1
70°-80°	0.6	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°	318.5	48.3
0°-40°	607.2	92.1
0°-60°	657.4	99.7
0°-90°	659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	68	51	20	8	6	9
15°	685	121	7	0	0	317
25°	5188	166	0	0	0	2347
35°	5029	73	0	0	0	2890
45°	387	8	0	0	0	457
55°	4	0	1	0	0	9
65°	0	0	1	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°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	43.0	43.7	44.4	44.4	44.4	44.4	43.7	43.7	43.7	43.7	43.0
5°	67.9	67.9	67.9	67.9	67.9	67.9	67.2	67.2	67.2	67.2	67.2
7.5°	97.0	95.6	96.3	94.2	95.6	94.9	94.2	95.6	95.6	92.2	92.2
10°	174.6	173.9	167.0	168.4	169.8	169.1	169.1	164.9	164.2	161.5	158.7
12.5°	336.8	344.4	350.0	350.0	336.8	341.6	332.6	334.7	336.1	331.9	317.4
15°	684.7	697.1	684.0	696.4	691.6	673.6	653.5	626.4	636.8	618.1	611.9
17.5°	1499.6	1528.0	1516.2	1458.7	1477.4	1433.1	1405.4	1395.0	1365.9	1279.2	1243.2
20°	2721.3	2756.0	2723.4	2656.2	2677.7	2593.8	2572.3	2552.2	2423.3	2376.2	2225.1
21°	3235.5	3263.9	3276.4	3206.4	3163.4	3096.9	3041.5	3023.4	2945.1	2854.4	2699.1
22°	3856.4	3823.1	3748.3	3758.0	3694.2	3639.5	3562.6	3489.8	3402.5	3275.7	3147.5
23°	4370.6	4331.8	4296.4	4253.5	4184.9	4146.1	4035.9	3956.2	3842.5	3706.7	3583.4
24°	4849.4	4789.8	4767.7	4691.4	4672.0	4584.7	4495.3	4391.4	4254.2	4109.3	3972.8
25°	5188.3	5197.3	5177.9	5168.9	5069.8	4980.4	4891.7	4731.6	4614.5	4486.3	4276.3
26°	5551.4	5555.6	5545.9	5479.3	5390.0	5302.6	5188.3	5049.0	4879.2	4737.2	4547.3
27°	5829.3	5812.7	5798.8	5719.8	5646.4	5536.2	5432.2	5267.3	5101.7	4932.6	4712.2
28°	6051.1	6019.9	6002.5	5934.6	5848.7	5713.6	5586.1	5432.2	5266.6	5085.0	4846.7
29°	6184.8	6151.5	6132.1	6057.3	5958.2	5839.7	5710.8	5541.7	5363.6	5161.3	4921.5
30°	6231.2	6211.8	6181.3	6103.7	6001.2	5877.8	5745.4	5561.8	5375.4	5168.2	4914.6
31°	6200.7	6175.8	6146.7	6062.8	5952.0	5834.1	5680.3	5487.7	5291.6	5094.1	4825.2
32°	6079.5	6064.2	6028.9	5916.6	5826.5	5674.1	5522.3	5342.1	5128.0	4916.0	4672.7
33°	5852.2	5827.2	5796.7	5694.2	5579.1	5432.9	5281.8	5097.5	4884.8	4660.9	4393.5
34°	5505.7	5473.8	5435.7	5367.1	5220.2	5093.4	4918.7	4703.2	4527.2	4312.4	4070.5
35°	5028.9	4982.5	4936.7	4884.8	4719.8	4602.7	4484.9	4297.1	4127.4	3925.0	3651.3
36°	4493.9	4475.9	4438.5	4301.3	4247.9	4088.5	3993.6	3778.1	3640.9	3442.7	3216.8
37°	3889.0	3782.9	3837.0	3760.1	3599.3	3549.4	3436.5	3251.4	3103.1	2893.9	2730.3
38°	3240.3	3171.0	3209.2	3131.6	3047.7	2932.7	2846.7	2711.6	2545.3	2381.1	2225.8
39°	2568.2	2512.0	2553.6	2500.9	2373.4	2325.6	2249.4	2146.1	2012.4	1884.2	1737.3
40°	1936.2	1864.1	1919.5	1844.7	1786.5	1708.2	1669.4	1574.4	1491.3	1414.4	1320.8
42.5°	884.2	876.6	864.1	837.1	830.9	831.6	783.8	752.6	710.3	661.1	631.3
45°	386.7	396.4	404.7	389.5	388.8	380.4	377.7	356.9	348.6	332.6	313.2
47.5°	190.6	194.0	192.0	196.1	192.6	187.1	185.7	182.9	174.6	173.9	164.9
50°	45.0	44.4	44.4	45.0	44.4	44.4	43.7	42.3	41.6	42.3	40.2
52.5°	14.6	15.2	14.6	13.9	14.6	15.2	14.6	14.6	14.6	14.6	14.6
55°	3.5	3.5	3.5	3.5	3.5	3.5	2.8	2.8	3.5	3.5	3.5
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°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	42.3	36.0	29.8	23.6	17.3	13.9	13.2	12.5
5°	63.8	51.3	34.0	20.1	11.8	8.3	6.2	5.5
7.5°	85.9	63.8	37.4	16.6	8.3	3.5	1.4	0.7
10°	123.3	75.5	38.8	13.2	4.2	0.0	0.0	0.0
12.5°	241.8	86.6	38.1	10.4	0.7	0.0	0.0	0.0
15°	401.9	121.3	35.3	6.9	0.0	0.0	0.0	0.0
17.5°	658.3	156.6	30.5	4.9	0.0	0.0	0.0	0.0
20°	1020.8	173.9	23.6	2.1	0.0	0.0	0.0	0.0
21°	1196.8	175.3	20.8	1.4	0.0	0.0	0.0	0.0
22°	1349.2	175.3	18.0	0.7	0.0	0.0	0.0	0.0
23°	1490.6	173.2	15.9	0.0	0.0	0.0	0.0	0.0
24°	1607.0	170.5	14.6	0.0	0.0	0.0	0.0	0.0
25°	1694.3	166.3	13.2	0.0	0.0	0.0	0.0	0.0
26°	1734.5	160.8	11.1	0.0	0.0	0.0	0.0	0.0
27°	1754.6	153.1	9.7	0.0	0.0	0.0	0.0	0.0
28°	1740.8	144.8	8.3	0.0	0.0	0.0	0.0	0.0
29°	1706.1	135.8	6.2	0.0	0.0	0.0	0.0	0.0
30°	1661.1	125.4	4.9	0.0	0.0	0.0	0.0	0.0
31°	1595.2	115.0	3.5	0.0	0.0	0.0	0.0	0.0
32°	1505.1	104.6	2.8	0.0	0.0	0.0	0.0	0.0
33°	1384.6	93.6	1.4	0.0	0.0	0.0	0.0	0.0
34°	1235.6	82.5	0.7	0.0	0.0	0.0	0.0	0.0
35°	1068.6	72.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	925.1	62.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	781.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	654.2	39.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	541.2	31.9	0.0	0.0	0.0	0.0	0.0	0.0
40°	448.4	21.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	248.1	14.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	150.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	87.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.4	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.4	1.4	0.7	0.0	0.0	0.0
67.5°	0.0	0.0	1.4	2.1	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.1	0.7	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	0.7	1.4	2.1	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.1	0.7	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)