

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: P1325930

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

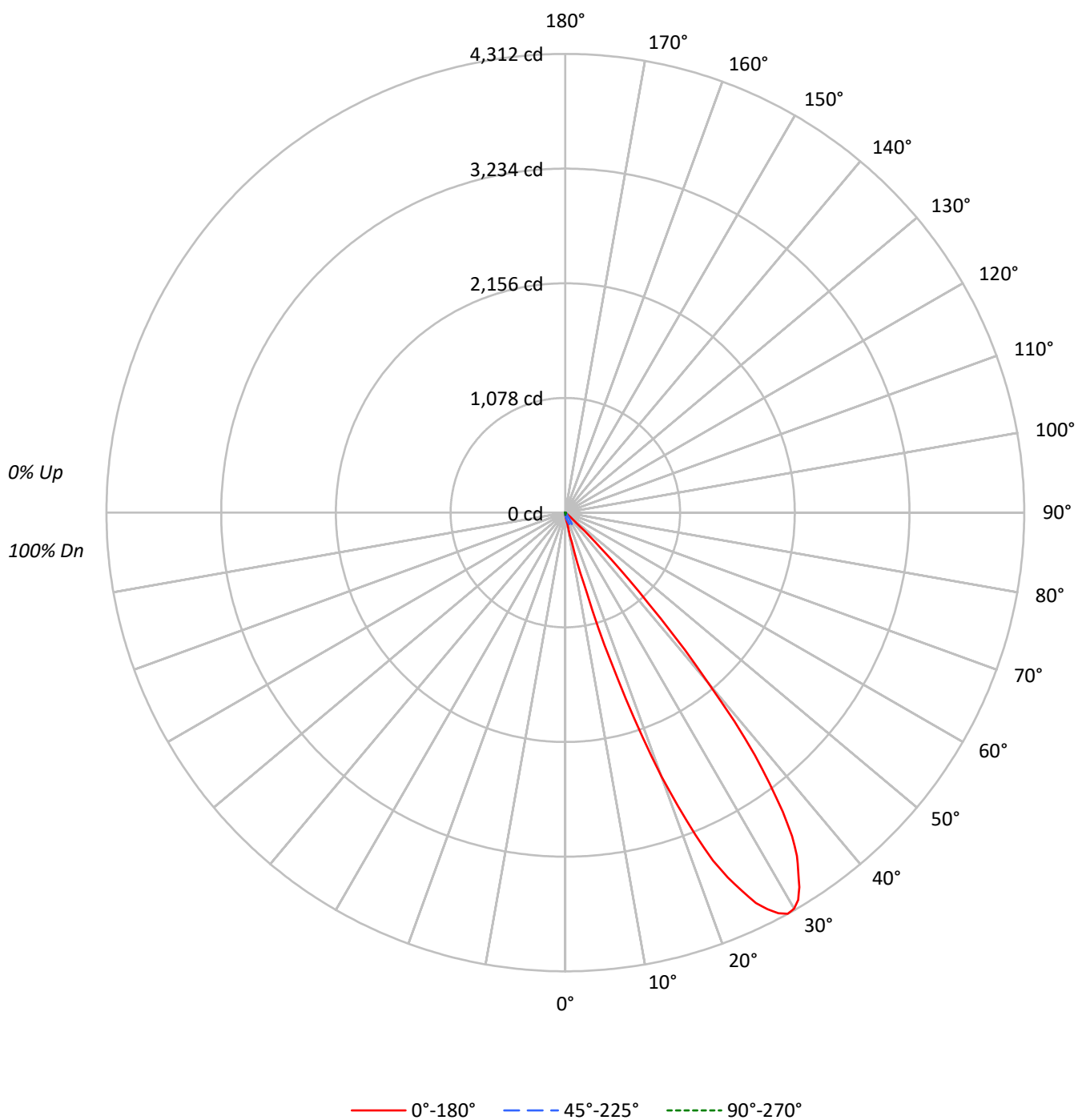
Lumens per Lamp: N/A
Luminaire Lumens: 595.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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



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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	93	92		
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3668	3668	3668	3668	3668
5°	7987	5619	3371	1539	1124
10°	19866	9933	2378	315	0
15°	139803	13604	1373	0	0
20°	483151	22891	550	0	0
25°	744733	29245	228	0	0
30°	854824	22591	0	0	0
35°	780682	8578	0	0	0
40°	468032	4002	0	0	0
45°	115009	1875	0	0	0
50°	12673	482	0	0	0
55°	1772	0	180	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	302	906	0	0
75°	0	399	1198	0	0
80°	0	595	1785	0	0
85°	0	1186	3557	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 122657 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.4
10°-20°	46.5	7.8
20°-30°	235.1	39.5
30°-40°	254.3	42.7
40°-50°	53.7	9.0
50°-60°	1.6	0.3
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.5	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°	283.9	47.7
0°-40°	538.2	90.5
0°-60°	593.6	99.8
0°-90°	595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	46	32	20	9	6	6
15°	784	76	8	0	0	327
25°	3919	154	1	0	0	1771
35°	3713	41	0	0	0	2190
45°	472	8	0	0	0	519
55°	6	0	1	0	0	10
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°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
2.5°	29.0	28.4	29.0	28.4	29.0	29.0	29.0	28.4	28.4	28.4	28.4
5°	46.2	46.2	45.6	46.2	46.2	46.2	46.2	45.6	45.6	45.0	45.0
7.5°	72.8	72.8	72.2	72.2	72.8	73.4	71.0	72.2	72.2	72.2	71.6
10°	113.6	116.0	113.6	116.6	114.2	112.4	115.4	112.4	112.4	111.8	110.1
12.5°	286.4	279.9	275.8	265.7	275.8	268.1	269.8	268.1	262.1	254.5	249.7
15°	784.1	784.1	761.0	791.8	769.3	777.6	735.0	735.5	713.6	690.0	677.0
17.5°	1639.1	1653.9	1638.6	1629.1	1609.0	1580.0	1568.1	1538.0	1498.3	1452.2	1446.8
20°	2636.2	2574.1	2603.1	2576.5	2559.9	2524.4	2484.8	2459.9	2425.0	2366.4	2280.0
21°	2949.9	2947.5	2946.9	2946.3	2922.1	2864.1	2828.0	2778.3	2729.1	2668.8	2596.6
22°	3265.9	3277.1	3281.8	3247.5	3197.8	3171.8	3146.9	3078.9	3001.3	2970.0	2884.2
23°	3555.8	3545.2	3514.4	3498.4	3460.0	3452.3	3378.3	3335.1	3259.4	3225.0	3123.2
24°	3753.5	3748.1	3733.9	3710.3	3679.5	3632.2	3587.8	3519.7	3457.6	3401.4	3306.7
25°	3919.1	3923.9	3897.8	3881.9	3848.7	3795.5	3741.0	3666.5	3608.5	3542.8	3433.3
26°	4083.1	4049.9	4029.2	4005.5	3969.4	3908.5	3855.8	3789.0	3718.5	3645.2	3538.1
27°	4184.3	4154.7	4123.3	4100.2	4058.8	4000.8	3944.6	3870.6	3791.9	3718.0	3607.9
28°	4264.1	4231.6	4200.8	4173.0	4125.7	4063.5	3996.1	3920.9	3839.3	3762.9	3650.5
29°	4311.5	4273.0	4239.9	4208.5	4165.3	4097.9	4029.8	3949.3	3870.6	3790.7	3675.9
30°	4298.5	4265.3	4233.4	4201.4	4157.6	4094.3	4026.8	3949.9	3870.6	3791.9	3675.3
31°	4247.6	4206.7	4183.7	4151.7	4113.8	4049.3	3991.3	3907.3	3835.7	3750.5	3633.9
32°	4149.9	4123.9	4093.1	4068.3	4031.6	3962.9	3906.1	3837.5	3752.9	3683.0	3560.6
33°	4017.4	3993.1	3977.7	3948.7	3913.2	3865.9	3797.8	3735.1	3639.8	3568.2	3445.8
34°	3890.7	3860.0	3821.5	3813.2	3782.5	3721.5	3660.0	3596.1	3510.8	3419.7	3296.0
35°	3713.2	3681.3	3645.8	3648.7	3612.0	3541.0	3478.3	3406.7	3325.6	3218.5	3101.4
36°	3475.9	3454.6	3449.3	3435.1	3393.1	3308.5	3248.7	3158.8	3090.7	2959.9	2859.3
37°	3186.6	3194.3	3155.8	3137.5	3088.3	3029.2	2995.4	2880.0	2800.7	2702.5	2566.4
38°	2894.2	2883.0	2837.4	2848.7	2781.2	2719.7	2624.4	2555.8	2467.0	2375.9	2267.0
39°	2529.1	2501.3	2446.9	2449.2	2398.4	2329.1	2236.8	2155.7	2102.5	2014.9	1910.8
40°	2081.8	2069.9	2051.0	2019.6	1952.8	1922.6	1840.3	1752.8	1707.8	1586.5	1535.6
42.5°	1155.1	1139.1	1107.2	1095.9	1060.4	1024.9	977.0	918.4	890.0	853.9	773.4
45°	472.2	503.6	495.9	487.0	459.8	461.6	427.2	431.4	400.0	378.7	363.9
47.5°	104.1	113.0	113.6	109.5	113.6	110.1	108.3	105.3	105.9	107.7	103.6
50°	47.3	46.7	47.9	47.3	46.7	46.2	45.6	43.8	45.0	43.8	42.6
52.5°	18.3	18.9	18.9	17.8	18.3	18.3	18.3	17.8	17.8	17.8	17.8
55°	5.9	5.9	5.9	5.3	5.3	5.9	5.9	5.9	5.9	5.9	5.3
57.5°	0.6	1.2	0.6	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.2
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°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
2.5°	27.2	24.9	23.1	21.3	17.8	14.8	13.6	13.6
5°	42.0	32.5	24.3	19.5	13.6	8.9	7.1	6.5
7.5°	63.3	43.8	25.4	16.6	8.9	4.7	3.0	2.4
10°	91.7	56.8	26.6	13.6	5.3	1.8	0.0	0.0
12.5°	160.4	68.1	26.6	10.7	2.4	0.0	0.0	0.0
15°	367.5	76.3	25.4	7.7	0.6	0.0	0.0	0.0
17.5°	763.4	95.9	22.5	5.3	0.0	0.0	0.0	0.0
20°	1219.0	124.9	17.8	3.0	0.0	0.0	0.0	0.0
21°	1406.6	134.9	16.0	2.4	0.0	0.0	0.0	0.0
22°	1541.5	144.4	14.2	1.8	0.0	0.0	0.0	0.0
23°	1690.0	150.3	12.4	1.2	0.0	0.0	0.0	0.0
24°	1799.5	153.9	10.7	1.2	0.0	0.0	0.0	0.0
25°	1867.6	153.9	9.5	1.2	0.0	0.0	0.0	0.0
26°	1907.8	150.3	8.3	0.6	0.0	0.0	0.0	0.0
27°	1917.3	144.4	7.1	0.6	0.0	0.0	0.0	0.0
28°	1905.4	136.7	5.9	0.0	0.0	0.0	0.0	0.0
29°	1868.1	125.5	5.3	0.0	0.0	0.0	0.0	0.0
30°	1827.9	113.6	4.1	0.0	0.0	0.0	0.0	0.0
31°	1759.3	97.6	3.6	0.0	0.0	0.0	0.0	0.0
32°	1680.0	81.1	3.0	0.0	0.0	0.0	0.0	0.0
33°	1574.1	63.9	2.4	0.0	0.0	0.0	0.0	0.0
34°	1417.8	50.3	2.4	0.0	0.0	0.0	0.0	0.0
35°	1277.6	40.8	1.8	0.0	0.0	0.0	0.0	0.0
36°	1094.1	32.5	1.8	0.0	0.0	0.0	0.0	0.0
37°	937.3	27.2	1.8	0.0	0.0	0.0	0.0	0.0
38°	784.7	23.1	1.2	0.0	0.0	0.0	0.0	0.0
39°	636.7	20.1	1.2	0.0	0.0	0.0	0.0	0.0
40°	507.7	17.8	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	274.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	151.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	66.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	22.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	1.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.2	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.2	1.2	0.6	0.0	0.0	0.0
67.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.2	1.8	0.6	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	0.6	1.2	1.8	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.2	1.8	0.6	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)