

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: P1325931

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325931
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_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

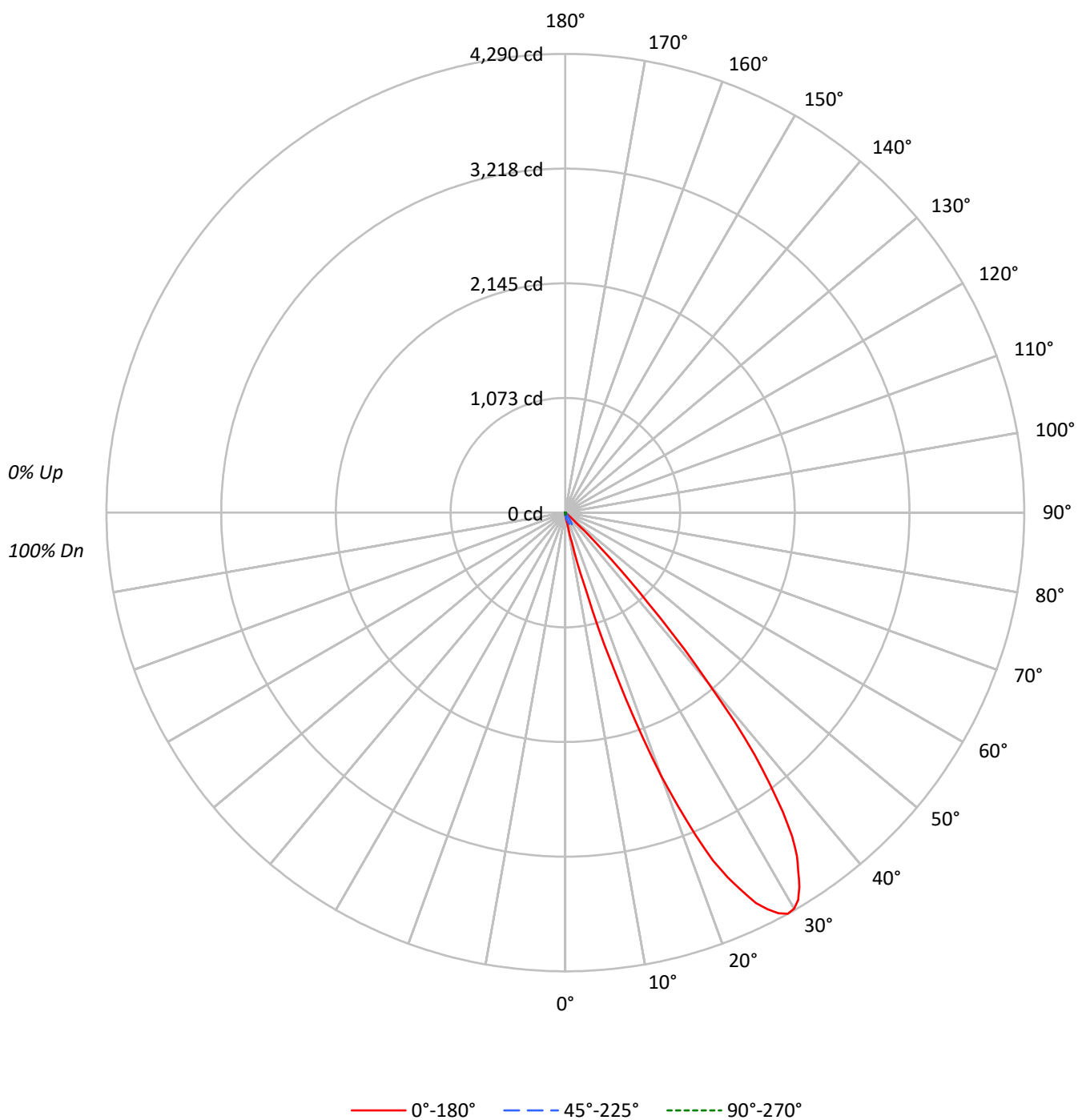
Lumens per Lamp: N/A
Luminaire Lumens: 592.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	3651	3651	3651	3651	3651
5°	7935	5601	3354	1521	1124
10°	19761	9881	2361	315	0
15°	139090	13551	1373	0	0
20°	480713	22763	531	0	0
25°	740990	29093	228	0	0
30°	850508	22472	0	0	0
35°	776750	8536	0	0	0
40°	465671	3979	0	0	0
45°	114424	1875	0	0	0
50°	12620	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: 122023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.4
10°-20°	46.2	7.8
20°-30°	233.9	39.5
30°-40°	253.0	42.7
40°-50°	53.4	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°	282.5	47.7
0°-40°	535.5	90.5
0°-60°	590.6	99.8
0°-90°	592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	46	32	19	9	6	6
15°	780	76	8	0	0	325
25°	3899	153	1	0	0	1763
35°	3694	41	0	0	0	2179
45°	470	8	0	0	0	517
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°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	28.8	28.3	28.8	28.3	28.8	28.8	28.8	28.3	28.3	28.3	28.3
5°	45.9	45.9	45.3	45.9	45.9	45.9	45.9	45.3	45.3	44.7	44.7
7.5°	72.4	72.4	71.8	71.8	72.4	73.0	70.7	71.8	71.8	71.8	71.2
10°	113.0	115.4	113.0	116.0	113.6	111.9	114.8	111.9	111.9	111.3	109.5
12.5°	285.0	278.5	274.4	264.4	274.4	266.7	268.5	266.7	260.8	253.2	248.5
15°	780.1	780.1	757.2	787.8	765.4	773.6	731.2	731.8	710.1	686.5	673.5
17.5°	1630.9	1645.6	1630.3	1620.9	1600.9	1572.0	1560.2	1530.2	1490.8	1444.8	1439.5
20°	2622.9	2561.1	2590.0	2563.5	2547.0	2511.7	2472.2	2447.5	2412.8	2354.5	2268.5
21°	2935.0	2932.6	2932.0	2931.5	2907.3	2849.6	2813.7	2764.3	2715.4	2655.3	2583.5
22°	3249.4	3260.6	3265.3	3231.1	3181.7	3155.8	3131.1	3063.3	2986.2	2955.0	2869.6
23°	3537.9	3527.3	3496.7	3480.8	3442.5	3434.9	3361.3	3318.3	3242.9	3208.8	3107.5
24°	3734.5	3729.2	3715.1	3691.6	3660.9	3613.8	3569.7	3502.0	3440.2	3384.2	3290.0
25°	3899.4	3904.1	3878.2	3862.3	3829.3	3776.3	3722.2	3648.0	3590.3	3524.9	3416.0
26°	4062.5	4029.5	4008.9	3985.3	3949.4	3888.8	3836.4	3769.9	3699.8	3626.8	3520.2
27°	4163.2	4133.7	4102.5	4079.6	4038.3	3980.6	3924.7	3851.1	3772.8	3699.2	3589.7
28°	4242.6	4210.3	4179.6	4152.0	4104.9	4043.0	3975.9	3901.2	3819.9	3744.0	3632.1
29°	4289.7	4251.5	4218.5	4187.3	4144.3	4077.2	4009.5	3929.4	3851.1	3771.6	3657.4
30°	4276.8	4243.8	4212.0	4180.2	4136.7	4073.7	4006.5	3930.0	3851.1	3772.8	3656.8
31°	4226.2	4185.5	4162.6	4130.8	4093.1	4028.9	3971.2	3887.6	3816.4	3731.6	3615.6
32°	4129.0	4103.1	4072.5	4047.8	4011.3	3943.0	3886.4	3818.1	3733.9	3664.5	3542.6
33°	3997.1	3973.0	3957.7	3928.8	3893.5	3846.4	3778.7	3716.3	3621.5	3550.3	3428.4
34°	3871.1	3840.5	3802.2	3794.0	3763.4	3702.7	3641.5	3577.9	3493.1	3402.5	3279.4
35°	3694.5	3662.7	3627.4	3630.3	3593.8	3523.2	3460.8	3389.5	3308.9	3202.3	3085.7
36°	3458.4	3437.2	3431.9	3417.8	3376.0	3291.8	3232.3	3142.8	3075.1	2945.0	2844.9
37°	3170.5	3178.2	3139.9	3121.6	3072.8	3013.9	2980.3	2865.5	2786.6	2688.9	2553.5
38°	2879.6	2868.5	2823.1	2834.3	2767.2	2706.0	2611.2	2542.9	2454.6	2363.9	2255.6
39°	2516.4	2488.7	2434.5	2436.9	2386.3	2317.4	2225.5	2144.9	2091.9	2004.7	1901.1
40°	2071.3	2059.5	2040.7	2009.5	1942.9	1912.9	1831.1	1743.9	1699.2	1578.5	1527.8
42.5°	1149.3	1133.4	1101.6	1090.4	1055.1	1019.7	972.1	913.8	885.5	849.6	769.5
45°	469.8	501.0	493.4	484.6	457.5	459.2	425.1	429.2	398.0	376.8	362.1
47.5°	103.6	112.5	113.0	108.9	113.0	109.5	107.7	104.8	105.4	107.2	103.0
50°	47.1	46.5	47.7	47.1	46.5	45.9	45.3	43.6	44.7	43.6	42.4
52.5°	18.3	18.8	18.8	17.7	18.3	18.3	18.3	17.7	17.7	17.7	17.7
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°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	27.1	24.7	23.0	21.2	17.7	14.7	13.5	13.5
5°	41.8	32.4	24.1	19.4	13.5	8.8	7.1	6.5
7.5°	63.0	43.6	25.3	16.5	8.8	4.7	2.9	2.4
10°	91.3	56.5	26.5	13.5	5.3	1.8	0.0	0.0
12.5°	159.6	67.7	26.5	10.6	2.4	0.0	0.0	0.0
15°	365.6	76.0	25.3	7.7	0.6	0.0	0.0	0.0
17.5°	759.5	95.4	22.4	5.3	0.0	0.0	0.0	0.0
20°	1212.9	124.2	17.7	2.9	0.0	0.0	0.0	0.0
21°	1399.5	134.2	15.9	2.4	0.0	0.0	0.0	0.0
22°	1533.7	143.7	14.1	1.8	0.0	0.0	0.0	0.0
23°	1681.5	149.5	12.4	1.2	0.0	0.0	0.0	0.0
24°	1790.4	153.1	10.6	1.2	0.0	0.0	0.0	0.0
25°	1858.1	153.1	9.4	1.2	0.0	0.0	0.0	0.0
26°	1898.2	149.5	8.2	0.6	0.0	0.0	0.0	0.0
27°	1907.6	143.7	7.1	0.6	0.0	0.0	0.0	0.0
28°	1895.8	136.0	5.9	0.0	0.0	0.0	0.0	0.0
29°	1858.7	124.8	5.3	0.0	0.0	0.0	0.0	0.0
30°	1818.7	113.0	4.1	0.0	0.0	0.0	0.0	0.0
31°	1750.4	97.1	3.5	0.0	0.0	0.0	0.0	0.0
32°	1671.5	80.7	2.9	0.0	0.0	0.0	0.0	0.0
33°	1566.1	63.6	2.4	0.0	0.0	0.0	0.0	0.0
34°	1410.7	50.0	2.4	0.0	0.0	0.0	0.0	0.0
35°	1271.1	40.6	1.8	0.0	0.0	0.0	0.0	0.0
36°	1088.6	32.4	1.8	0.0	0.0	0.0	0.0	0.0
37°	932.6	27.1	1.8	0.0	0.0	0.0	0.0	0.0
38°	780.7	23.0	1.2	0.0	0.0	0.0	0.0	0.0
39°	633.5	20.0	1.2	0.0	0.0	0.0	0.0	0.0
40°	505.2	17.7	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	272.6	11.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	150.7	7.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	66.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	22.4	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)