

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: P1327610

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQCA30R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327610
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: LDSQA3D13R20W2N902765DE010 3LSQCA30R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

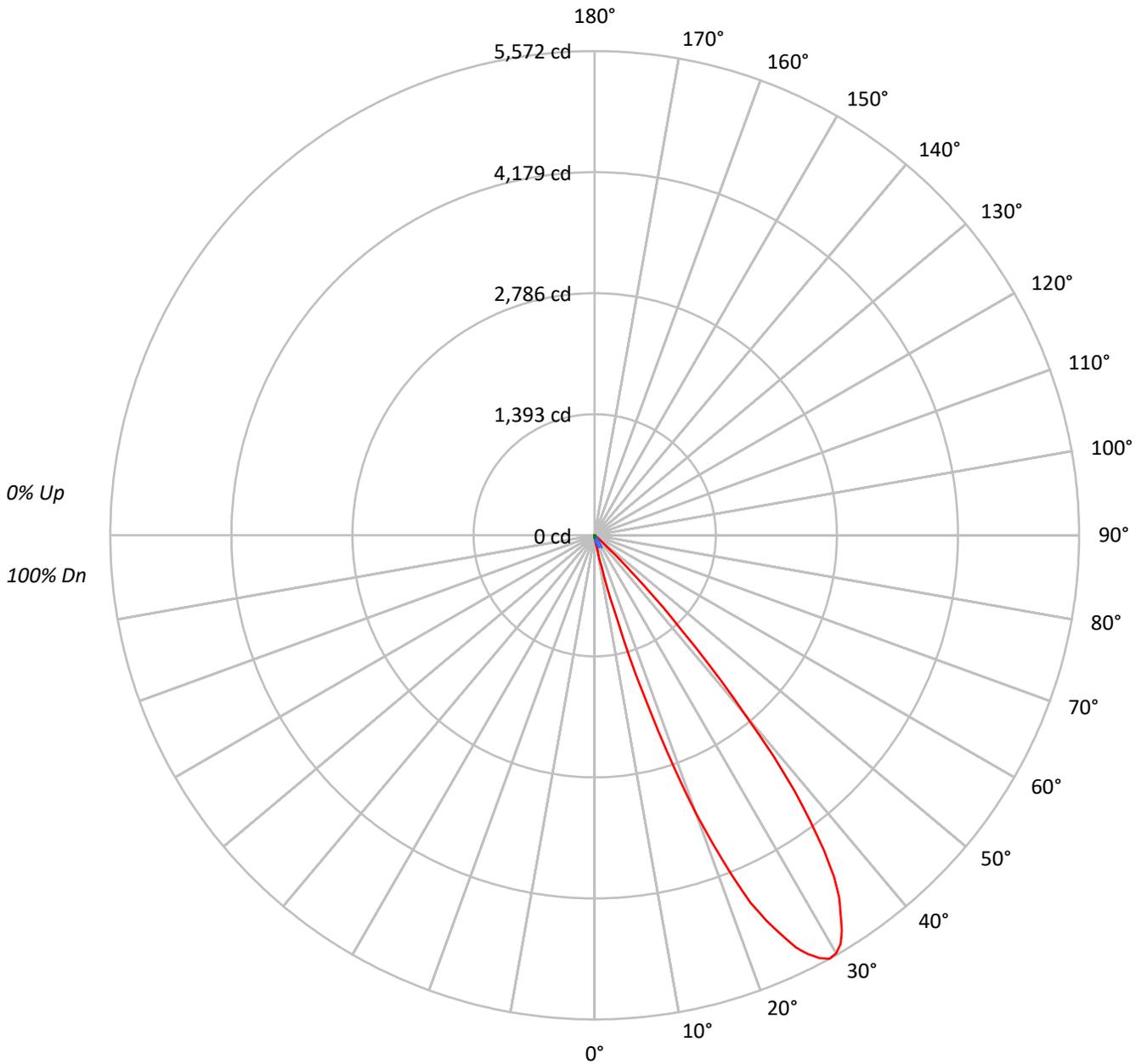
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 769.0 lumens
Efficiency: N/A
Efficacy: 62.5 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): 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



— 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
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°	4736	4736	4736	4736	4736
5°	10321	7278	4357	1988	1452
10°	25672	12836	3078	402	0
15°	180687	17598	1765	0	0
20°	624456	29581	696	0	0
25°	962542	37777	285	0	0
30°	1104798	29193	0	0	0
35°	1008987	11101	0	0	0
40°	604903	5148	0	0	0
45°	148644	2411	0	0	0
50°	16397	616	0	0	0
55°	2282	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: 1°
 Vertical Angle: 45°
 Luminance: 158509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	60.1	7.8
20°-30°	303.8	39.5
30°-40°	328.7	42.7
40°-50°	69.4	9.0
50°-60°	2.1	0.3
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°	367.0	47.7
0°-40°	695.6	90.5
0°-60°	767.2	99.8
0°-90°	769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	769.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	60	42	25	12	8	8
15°	1013	99	10	0	0	422
25°	5065	199	2	0	0	2289
35°	4799	53	0	0	0	2830
45°	610	10	0	0	0	671
55°	8	0	1	0	0	14
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°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
2.5°	37.5	36.7	37.5	36.7	37.5	37.5	37.5	36.7	36.7	36.7	36.7
5°	59.7	59.7	58.9	59.7	59.7	59.7	59.7	58.9	58.9	58.1	58.1
7.5°	94.1	94.1	93.3	93.3	94.1	94.8	91.8	93.3	93.3	93.3	92.5
10°	146.8	149.9	146.8	150.7	147.6	145.3	149.1	145.3	145.3	144.5	142.3
12.5°	370.2	361.7	356.4	343.4	356.4	346.5	348.7	346.5	338.8	328.9	322.7
15°	1013.4	1013.4	983.5	1023.3	994.2	1004.9	949.9	950.6	922.3	891.8	874.9
17.5°	2118.5	2137.6	2117.7	2105.5	2079.5	2042.0	2026.7	1987.7	1936.5	1876.8	1869.9
20°	3407.2	3326.9	3364.3	3329.9	3308.5	3262.6	3211.4	3179.3	3134.1	3058.4	2946.8
21°	3812.5	3809.5	3808.7	3807.9	3776.6	3701.6	3655.0	3590.7	3527.2	3449.2	3355.9
22°	4220.9	4235.4	4241.6	4197.2	4133.0	4099.3	4067.2	3979.2	3879.1	3838.5	3727.6
23°	4595.7	4581.9	4542.1	4521.5	4471.8	4461.8	4366.2	4310.4	4212.5	4168.1	4036.6
24°	4851.1	4844.2	4825.9	4795.3	4755.5	4694.3	4637.0	4549.0	4468.7	4396.1	4273.7
25°	5065.3	5071.4	5037.7	5017.1	4974.2	4905.4	4835.1	4738.7	4663.7	4578.8	4437.4
26°	5277.1	5234.3	5207.5	5176.9	5130.3	5051.5	4983.4	4897.0	4806.0	4711.2	4572.7
27°	5407.9	5369.6	5329.1	5299.3	5245.7	5170.8	5098.1	5002.5	4900.8	4805.2	4663.0
28°	5511.1	5469.1	5429.3	5393.4	5332.2	5251.9	5164.7	5067.5	4962.0	4863.3	4718.0
29°	5572.3	5522.6	5479.8	5439.2	5383.4	5296.2	5208.3	5104.3	5002.5	4899.3	4750.9
30°	5555.5	5512.7	5471.4	5430.1	5373.5	5291.6	5204.4	5105.0	5002.5	4900.8	4750.2
31°	5489.7	5436.9	5407.1	5365.8	5316.9	5233.5	5158.6	5050.0	4957.4	4847.3	4696.6
32°	5363.5	5329.9	5290.1	5258.0	5210.6	5121.8	5048.4	4959.7	4850.3	4760.1	4601.8
33°	5192.2	5160.9	5141.0	5103.5	5057.6	4996.4	4908.5	4827.4	4704.3	4611.7	4453.4
34°	5028.5	4988.8	4939.1	4928.4	4888.6	4809.8	4730.3	4647.7	4537.5	4419.8	4259.9
35°	4799.1	4757.8	4711.9	4715.7	4668.3	4576.5	4495.5	4402.9	4298.2	4159.7	4008.3
36°	4492.4	4464.9	4458.0	4439.6	4385.3	4276.0	4198.7	4082.5	3994.5	3825.5	3695.5
37°	4118.4	4128.4	4078.7	4055.0	3991.5	3915.0	3871.4	3722.3	3619.8	3492.8	3316.9
38°	3740.6	3726.1	3667.2	3681.7	3594.5	3515.0	3391.9	3303.2	3188.4	3070.7	2929.9
39°	3268.7	3232.8	3162.4	3165.5	3099.7	3010.2	2890.9	2786.2	2717.3	2604.1	2469.5
40°	2690.6	2675.3	2650.8	2610.3	2523.8	2484.8	2378.5	2265.3	2207.2	2050.4	1984.6
42.5°	1492.9	1472.2	1430.9	1416.4	1370.5	1324.6	1262.7	1187.0	1150.3	1103.6	999.6
45°	610.3	650.8	640.9	629.4	594.2	596.5	552.2	557.5	517.0	489.5	470.4
47.5°	134.6	146.1	146.8	141.5	146.8	142.3	140.0	136.1	136.9	139.2	133.8
50°	61.2	60.4	61.9	61.2	60.4	59.7	58.9	56.6	58.1	56.6	55.1
52.5°	23.7	24.5	24.5	22.9	23.7	23.7	23.7	22.9	22.9	22.9	22.9
55°	7.6	7.6	7.6	6.9	6.9	7.6	7.6	7.6	7.6	7.6	6.9
57.5°	0.8	1.5	0.8	1.5	0.8	0.8	0.8	0.8	0.8	1.5	1.5
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°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
2.5°	35.2	32.1	29.8	27.5	22.9	19.1	17.6	17.6
5°	54.3	42.1	31.4	25.2	17.6	11.5	9.2	8.4
7.5°	81.8	56.6	32.9	21.4	11.5	6.1	3.8	3.1
10°	118.5	73.4	34.4	17.6	6.9	2.3	0.0	0.0
12.5°	207.3	88.0	34.4	13.8	3.1	0.0	0.0	0.0
15°	474.9	98.7	32.9	9.9	0.8	0.0	0.0	0.0
17.5°	986.6	123.9	29.1	6.9	0.0	0.0	0.0	0.0
20°	1575.5	161.4	22.9	3.8	0.0	0.0	0.0	0.0
21°	1817.9	174.4	20.6	3.1	0.0	0.0	0.0	0.0
22°	1992.3	186.6	18.4	2.3	0.0	0.0	0.0	0.0
23°	2184.3	194.3	16.1	1.5	0.0	0.0	0.0	0.0
24°	2325.7	198.8	13.8	1.5	0.0	0.0	0.0	0.0
25°	2413.7	198.8	12.2	1.5	0.0	0.0	0.0	0.0
26°	2465.7	194.3	10.7	0.8	0.0	0.0	0.0	0.0
27°	2477.9	186.6	9.2	0.8	0.0	0.0	0.0	0.0
28°	2462.6	176.7	7.6	0.0	0.0	0.0	0.0	0.0
29°	2414.5	162.1	6.9	0.0	0.0	0.0	0.0	0.0
30°	2362.5	146.8	5.4	0.0	0.0	0.0	0.0	0.0
31°	2273.7	126.2	4.6	0.0	0.0	0.0	0.0	0.0
32°	2171.3	104.8	3.8	0.0	0.0	0.0	0.0	0.0
33°	2034.4	82.6	3.1	0.0	0.0	0.0	0.0	0.0
34°	1832.5	65.0	3.1	0.0	0.0	0.0	0.0	0.0
35°	1651.2	52.8	2.3	0.0	0.0	0.0	0.0	0.0
36°	1414.1	42.1	2.3	0.0	0.0	0.0	0.0	0.0
37°	1211.4	35.2	2.3	0.0	0.0	0.0	0.0	0.0
38°	1014.1	29.8	1.5	0.0	0.0	0.0	0.0	0.0
39°	822.9	26.0	1.5	0.0	0.0	0.0	0.0	0.0
40°	656.2	22.9	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	354.1	15.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	195.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	86.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	29.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.9	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	1.5	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	0.8	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)