

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: P1326010

Luminaire Tested: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

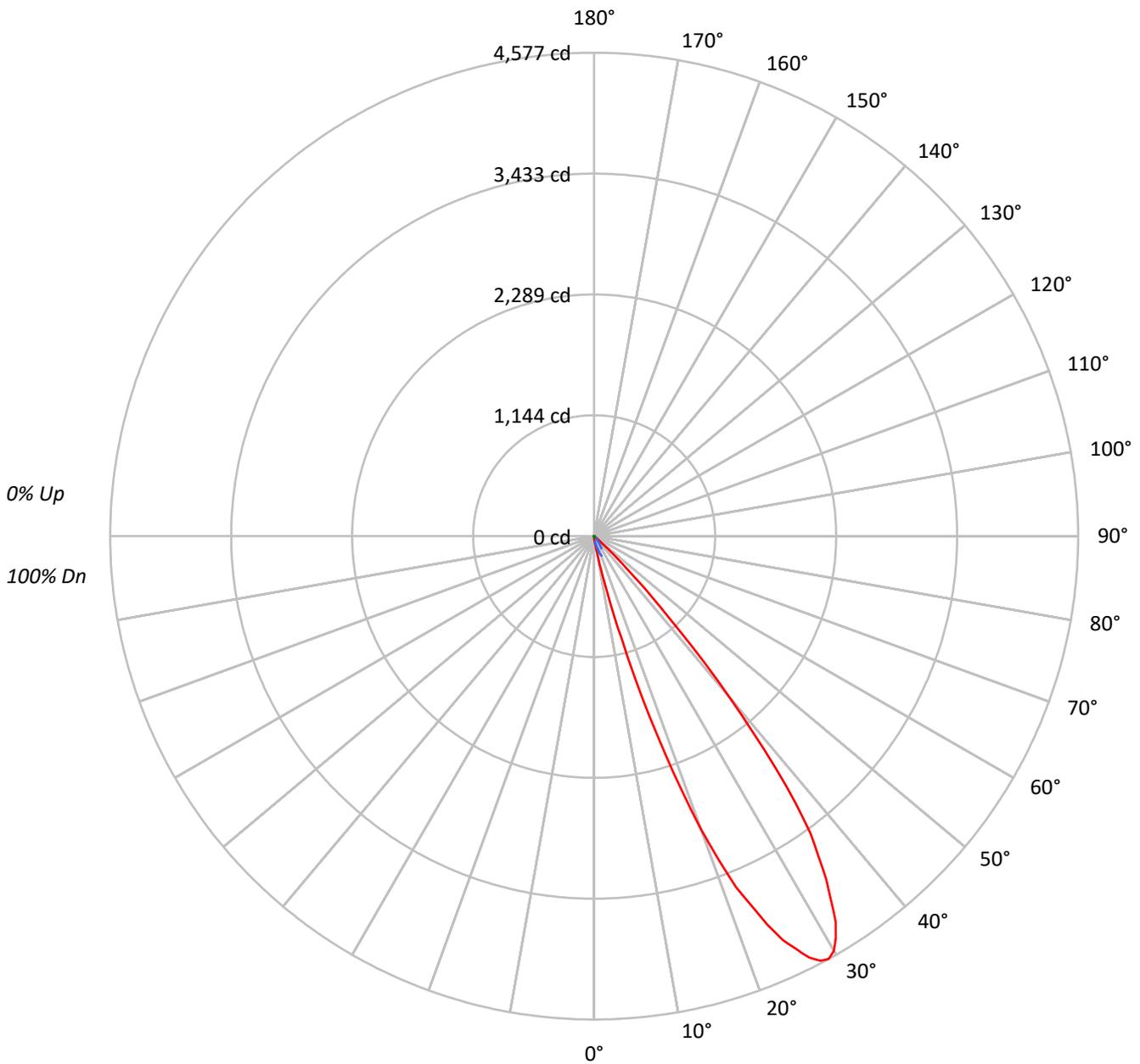
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 642.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
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



— 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	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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3806	3806	3806	3806	3806
5°	8765	6552	3630	2213	1919
10°	27596	11402	2955	1224	909
15°	178833	21075	2175	410	107
20°	539710	36087	1503	0	0
25°	801551	36409	893	0	0
30°	901378	27682	338	0	0
35°	777717	16525	252	0	0
40°	447843	5621	0	0	0
45°	109236	2265	146	0	146
50°	13102	616	161	161	455
55°	1742	0	360	360	691
60°	207	0	586	586	999
65°	245	245	937	937	1426
70°	302	302	1158	1158	1460
75°	0	399	1530	1131	1530
80°	0	595	1686	1190	1686
85°	0	1186	3359	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 109943 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.5
10°-20°	59.5	9.3
20°-30°	259.3	40.4
30°-40°	261.2	40.7
40°-50°	52.4	8.2
50°-60°	2.6	0.4
60°-70°	1.7	0.3
70°-80°	1.5	0.2
80°-90°	0.8	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°	321.8	50.1
0°-40°	582.9	90.8
0°-60°	638.0	99.4
0°-90°	642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	51	38	21	13	11	8
15°	1003	118	12	2	1	393
25°	4218	192	5	0	0	1902
35°	3699	79	1	0	0	2201
45°	448	9	1	0	1	488
55°	6	0	1	1	2	11
65°	1	1	2	2	4	1
75°	0	1	2	2	2	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	33.2	33.2	32.6	32.6	32.0	32.6	31.5	32.0	32.0	31.5	28.5
5°	50.7	51.8	51.3	51.3	50.7	51.3	50.1	48.9	47.8	47.8	37.9
7.5°	83.3	82.7	81.5	82.1	80.4	79.2	78.0	77.5	74.0	72.2	49.5
10°	157.8	161.3	158.4	157.8	147.4	146.8	139.8	129.9	121.1	116.5	65.2
12.5°	434.5	453.1	424.0	410.0	401.9	370.4	357.0	322.7	289.5	264.4	82.7
15°	1003.0	1049.0	990.2	994.2	945.3	855.6	777.0	709.4	629.6	549.2	118.2
17.5°	1965.2	1927.9	1895.9	1841.7	1742.1	1610.5	1441.0	1269.2	1120.6	965.1	164.8
20°	2944.8	2911.6	2838.8	2720.6	2593.6	2398.5	2197.0	1939.0	1689.1	1455.0	196.9
21°	3282.1	3271.0	3151.6	3078.8	2883.1	2696.7	2464.3	2188.3	1906.9	1629.7	202.1
22°	3583.2	3516.8	3452.7	3345.0	3150.5	2947.8	2689.2	2398.5	2093.3	1785.2	202.7
23°	3791.7	3761.4	3700.9	3579.1	3385.8	3147.5	2875.0	2570.9	2249.4	1895.3	200.9
24°	4022.4	3983.9	3895.4	3753.3	3558.2	3322.9	3011.8	2710.1	2360.7	1987.9	196.3
25°	4218.1	4158.1	4053.2	3900.1	3686.9	3444.0	3131.2	2799.8	2438.1	2050.2	191.6
26°	4345.0	4312.4	4177.9	4011.3	3783.0	3532.5	3213.4	2868.5	2488.2	2078.8	184.1
27°	4477.3	4417.3	4285.1	4093.4	3845.9	3590.2	3260.0	2901.7	2505.7	2079.9	174.7
28°	4553.0	4487.7	4338.1	4136.5	3886.7	3622.2	3286.7	2912.2	2502.2	2061.9	163.7
29°	4576.9	4494.7	4348.5	4143.5	3896.6	3624.6	3282.7	2897.1	2471.3	2017.6	150.9
30°	4532.6	4448.7	4310.1	4110.3	3865.1	3595.4	3244.8	2847.0	2416.6	1954.1	139.2
31°	4435.9	4364.9	4230.9	4030.5	3795.2	3527.3	3159.2	2764.9	2323.4	1869.1	125.8
32°	4308.4	4238.5	4106.8	3925.7	3686.3	3416.0	3042.1	2636.7	2213.9	1742.1	112.4
33°	4116.7	4076.5	3958.3	3785.3	3545.9	3257.0	2884.9	2483.6	2057.8	1601.1	100.8
34°	3922.8	3872.1	3789.4	3600.1	3342.7	3054.3	2679.8	2272.1	1867.3	1443.3	89.7
35°	3699.1	3668.8	3538.9	3387.5	3128.9	2834.2	2462.0	2066.5	1645.4	1267.4	78.6
36°	3482.4	3435.8	3287.9	3127.7	2876.7	2558.1	2190.6	1819.0	1453.8	1102.6	67.0
37°	3167.9	3096.9	2991.4	2822.5	2529.0	2257.6	1922.1	1577.3	1217.9	924.3	54.2
38°	2798.1	2764.9	2618.7	2448.6	2205.7	1948.3	1616.3	1323.9	1004.7	771.7	41.4
39°	2361.8	2361.2	2221.4	2098.6	1860.9	1629.1	1329.7	1074.6	829.4	621.5	32.0
40°	1992.0	1923.2	1837.0	1682.7	1500.4	1303.5	1041.4	841.1	643.6	500.9	25.0
42.5°	1044.3	1038.5	987.8	871.9	770.0	654.1	520.1	433.3	339.0	276.1	15.7
45°	448.5	451.4	416.4	399.0	359.4	311.0	262.7	219.0	187.5	152.0	9.3
47.5°	113.6	108.9	107.8	111.8	111.8	108.3	97.3	91.4	84.5	77.5	5.2
50°	48.9	47.8	46.6	46.6	43.7	41.9	39.0	35.5	32.6	29.1	2.3
52.5°	18.1	18.6	19.2	18.6	18.6	18.1	18.1	17.5	15.7	14.0	1.2
55°	5.8	5.8	5.8	6.4	6.4	7.0	7.0	7.0	7.0	6.4	0.0
57.5°	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.0	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	25.6	22.7	19.2	16.3	15.7	15.1
5°	28.5	21.0	15.7	12.8	11.6	11.1
7.5°	30.9	19.2	12.8	9.3	8.2	7.6
10°	32.0	16.9	10.5	7.0	5.2	5.2
12.5°	32.6	14.6	7.6	4.7	2.9	2.9
15°	32.0	12.2	5.8	2.3	0.6	0.6
17.5°	29.1	9.9	3.5	0.6	0.0	0.0
20°	25.0	8.2	2.3	0.0	0.0	0.0
21°	23.9	7.0	1.7	0.0	0.0	0.0
22°	22.1	6.4	1.2	0.0	0.0	0.0
23°	20.4	5.8	1.2	0.0	0.0	0.0
24°	18.6	5.2	0.6	0.0	0.0	0.0
25°	17.5	4.7	0.6	0.0	0.0	0.0
26°	16.3	4.1	0.6	0.0	0.0	0.0
27°	14.6	3.5	0.0	0.0	0.0	0.0
28°	13.4	2.9	0.0	0.0	0.0	0.0
29°	11.6	2.3	0.0	0.0	0.0	0.0
30°	9.9	1.7	0.0	0.0	0.0	0.0
31°	8.2	1.7	0.0	0.0	0.0	0.0
32°	7.0	1.2	0.0	0.0	0.0	0.0
33°	5.8	1.2	0.0	0.0	0.0	0.0
34°	5.2	1.2	0.0	0.0	0.0	0.0
35°	4.7	1.2	0.0	0.0	0.0	0.0
36°	3.5	0.6	0.0	0.0	0.0	0.0
37°	2.9	0.6	0.0	0.0	0.0	0.0
38°	2.3	0.6	0.0	0.0	0.0	0.0
39°	1.7	0.0	0.0	0.0	0.0	0.0
40°	1.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.6	0.0	0.0	0.6	0.6
47.5°	0.0	0.6	0.0	0.0	0.6	1.2
50°	0.0	0.6	0.6	0.6	1.2	1.7
52.5°	0.0	1.2	0.6	0.6	1.7	1.7
55°	0.6	1.2	0.6	1.2	2.3	2.3
57.5°	0.6	1.2	1.2	1.7	2.3	2.9
60°	1.2	1.7	1.7	1.7	2.9	2.9
62.5°	1.2	1.7	2.3	2.3	2.9	3.5
65°	1.2	2.3	2.3	2.3	2.9	3.5
67.5°	1.7	2.3	2.3	2.3	2.9	3.5
70°	1.7	2.3	2.3	2.3	2.9	2.9
72.5°	1.7	2.3	1.7	2.3	2.3	2.9
75°	1.7	2.3	1.7	1.7	2.3	2.3
77.5°	1.2	1.7	1.7	1.2	1.7	1.7
80°	1.2	1.7	1.2	1.2	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.7	1.2	0.6	1.2	1.2
85°	1.2	1.7	1.2	0.6	0.6	0.6
87.5°	1.2	1.7	1.2	0.6	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)