Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1326011

Luminaire Tested: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MW_3500K

Issue Date: 1/29/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1326011
	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_3500K
Description:	3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	652.1 lumens
Efficiency:	N/A
Efficacy:	72.5 lumens/watt
Spacing Criteria (0/90/45):	2.29 / 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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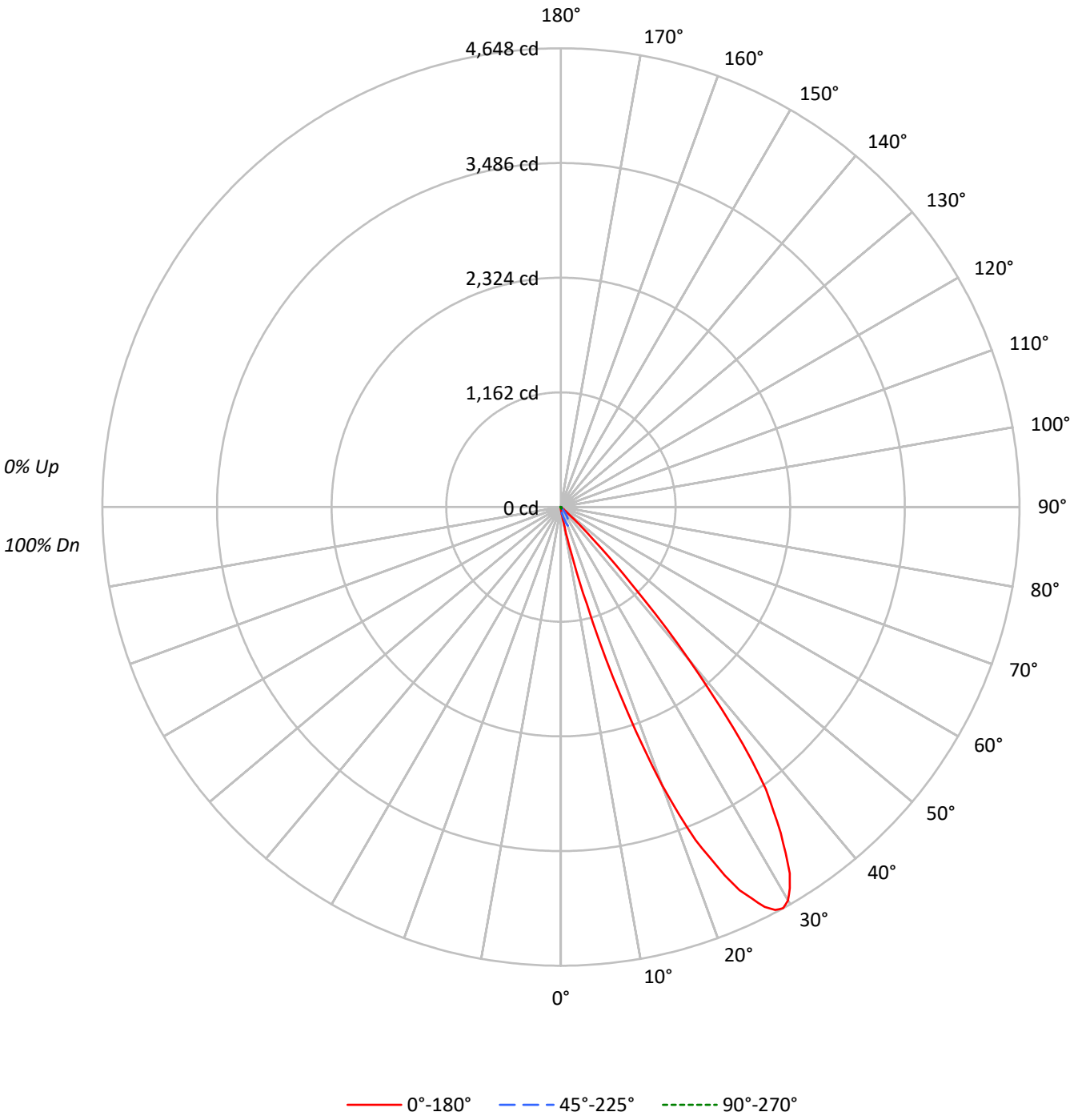
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
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°	3875	3875	3875	3875	3875
5°	8903	6639	3682	2247	1936
10°	28033	11595	3008	1242	927
15°	181614	21414	2211	428	107
20°	548122	36637	1521	0	0
25°	814036	36979	893	0	0
30°	915418	28120	358	0	0
35°	789827	16799	252	0	0
40°	454812	5710	0	0	0
45°	110941	2314	146	0	146
50°	13316	643	161	161	482
55°	1772	0	360	360	721
60°	207	0	620	620	1033
65°	245	245	978	978	1426
70°	302	302	1209	1209	1511
75°	0	399	1597	1198	1597
80°	0	595	1785	1190	1785
85°	0	1186	3557	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
Vertical Angle: 45°
Luminance: 111648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.5
10°-20°	60.4	9.3
20°-30°	263.4	40.4
30°-40°	265.2	40.7
40°-50°	53.2	8.2
50°-60°	2.7	0.4
60°-70°	1.8	0.3
70°-80°	1.6	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°	326.8	50.1
0°-40°	592.0	90.8
0°-60°	647.9	99.4
0°-90°	652.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	52	38	21	13	11	8
15°	1019	120	12	2	1	399
25°	4284	195	5	0	0	1932
35°	3757	80	1	0	0	2235
45°	456	10	1	0	1	496
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°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
2.5°	33.7	33.7	33.1	33.1	32.5	33.1	31.9	32.5	32.5	31.9	29.0
5°	51.5	52.6	52.1	52.1	51.5	52.1	50.9	49.7	48.5	48.5	38.4
7.5°	84.6	84.0	82.8	83.4	81.6	80.4	79.3	78.7	75.1	73.3	50.3
10°	160.3	163.9	160.9	160.3	149.7	149.1	142.0	131.9	123.0	118.3	66.3
12.5°	441.3	460.2	430.6	416.4	408.1	376.2	362.6	327.7	294.0	268.5	84.0
15°	1018.6	1065.3	1005.6	1009.7	960.0	868.9	789.1	720.5	639.4	557.8	120.1
17.5°	1995.8	1957.9	1925.4	1870.4	1769.2	1635.5	1463.4	1288.9	1138.1	980.1	167.4
20°	2990.7	2957.0	2883.1	2763.0	2634.0	2435.9	2231.2	1969.2	1715.4	1477.6	199.9
21°	3333.2	3322.0	3200.7	3126.8	2928.0	2738.7	2502.7	2222.3	1936.6	1655.1	205.3
22°	3639.0	3571.6	3506.5	3397.1	3199.5	2993.7	2731.0	2435.9	2125.9	1813.0	205.8
23°	3850.8	3820.0	3758.5	3634.9	3438.5	3196.6	2919.7	2611.0	2284.4	1924.8	204.1
24°	4085.0	4046.0	3956.1	3811.7	3613.6	3374.6	3058.7	2752.3	2397.4	2018.9	199.3
25°	4283.8	4222.9	4116.4	3960.8	3744.3	3497.6	3180.0	2843.4	2476.1	2082.1	194.6
26°	4412.7	4379.6	4243.0	4073.8	3841.9	3587.6	3263.4	2913.2	2527.0	2111.1	186.9
27°	4547.0	4486.1	4351.8	4157.2	3905.8	3646.1	3310.7	2946.9	2544.7	2112.3	177.5
28°	4623.9	4557.7	4405.6	4201.0	3947.2	3678.7	3337.9	2957.6	2541.2	2094.0	166.2
29°	4648.2	4564.7	4416.3	4208.1	3957.3	3681.0	3333.8	2942.2	2509.8	2049.0	153.2
30°	4603.2	4518.0	4377.2	4174.3	3925.3	3651.4	3295.3	2891.3	2454.2	1984.5	141.4
31°	4505.0	4432.8	4296.8	4093.3	3854.3	3582.2	3208.4	2807.9	2359.6	1898.2	127.8
32°	4375.5	4304.5	4170.8	3986.8	3743.7	3469.3	3089.5	2677.8	2248.4	1769.2	114.2
33°	4180.9	4140.0	4020.0	3844.3	3601.2	3307.8	2929.8	2522.2	2089.8	1626.1	102.3
34°	3983.9	3932.4	3848.4	3656.2	3394.7	3101.9	2721.6	2307.5	1896.4	1465.8	91.1
35°	3756.7	3726.0	3594.1	3440.3	3177.6	2878.3	2500.3	2098.7	1671.0	1287.1	79.9
36°	3536.7	3489.4	3339.1	3176.5	2921.5	2597.9	2224.7	1847.3	1476.4	1119.7	68.0
37°	3217.3	3145.1	3038.0	2866.5	2568.4	2292.7	1952.0	1601.8	1236.9	938.7	55.0
38°	2841.7	2807.9	2659.5	2486.7	2240.1	1978.6	1641.5	1344.5	1020.4	783.8	42.0
39°	2398.6	2398.0	2256.1	2131.2	1889.9	1654.5	1350.4	1091.4	842.3	631.2	32.5
40°	2023.0	1953.2	1865.6	1708.9	1523.8	1323.8	1057.6	854.2	653.6	508.7	25.4
42.5°	1060.6	1054.7	1003.2	885.5	782.0	664.3	528.2	440.1	344.3	280.4	16.0
45°	455.5	458.4	422.9	405.2	365.0	315.9	266.8	222.4	190.5	154.4	9.5
47.5°	115.3	110.6	109.4	113.6	113.6	110.0	98.8	92.9	85.8	78.7	5.3
50°	49.7	48.5	47.3	47.3	44.4	42.6	39.6	36.1	33.1	29.6	2.4
52.5°	18.3	18.9	19.5	18.9	18.9	18.3	18.3	17.7	16.0	14.2	1.2
55°	5.9	5.9	5.9	6.5	6.5	7.1	7.1	7.1	7.1	6.5	0.0
57.5°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	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°	22.5	22.5	22.5	22.5	22.5	22.5
2.5°	26.0	23.1	19.5	16.6	16.0	15.4
5°	29.0	21.3	16.0	13.0	11.8	11.2
7.5°	31.4	19.5	13.0	9.5	8.3	7.7
10°	32.5	17.2	10.6	7.1	5.3	5.3
12.5°	33.1	14.8	7.7	4.7	3.0	3.0
15°	32.5	12.4	5.9	2.4	0.6	0.6
17.5°	29.6	10.1	3.5	0.6	0.0	0.0
20°	25.4	8.3	2.4	0.0	0.0	0.0
21°	24.3	7.1	1.8	0.0	0.0	0.0
22°	22.5	6.5	1.2	0.0	0.0	0.0
23°	20.7	5.9	1.2	0.0	0.0	0.0
24°	18.9	5.3	0.6	0.0	0.0	0.0
25°	17.7	4.7	0.6	0.0	0.0	0.0
26°	16.6	4.1	0.6	0.0	0.0	0.0
27°	14.8	3.5	0.0	0.0	0.0	0.0
28°	13.6	3.0	0.0	0.0	0.0	0.0
29°	*11.8*	*2.4*	*0.0*	*0.0*	*0.0*	*0.0*
30°	10.1	1.8	0.0	0.0	0.0	0.0
31°	8.3	1.8	0.0	0.0	0.0	0.0
32°	7.1	1.2	0.0	0.0	0.0	0.0
33°	5.9	1.2	0.0	0.0	0.0	0.0
34°	5.3	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°	3.0	0.6	0.0	0.0	0.0	0.0
38°	2.4	0.6	0.0	0.0	0.0	0.0
39°	1.8	0.0	0.0	0.0	0.0	0.0
40°	1.8	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	1.8
52.5°	0.0	1.2	0.6	0.6	1.8	1.8
55°	0.6	1.2	0.6	1.2	2.4	2.4
57.5°	0.6	1.2	1.2	1.8	2.4	3.0
60°	1.2	1.8	1.8	1.8	3.0	3.0
62.5°	1.2	1.8	2.4	2.4	3.0	3.5
65°	1.2	2.4	2.4	2.4	3.0	3.5
67.5°	1.8	2.4	2.4	2.4	3.0	3.5
70°	1.8	2.4	2.4	2.4	3.0	3.0
72.5°	1.8	2.4	1.8	2.4	2.4	3.0
75°	1.8	2.4	1.8	1.8	2.4	2.4
77.5°	1.2	1.8	1.8	1.2	1.8	1.8
80°	1.2	1.8	1.2	1.2	1.8	1.8

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.8	1.2	0.6	1.2	1.2
85°	1.2	1.8	1.2	0.6	0.6	0.6
87.5°	1.2	1.8	1.2	0.6	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)