

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: P1312353

Luminaire Tested: LDSQA3D09R209050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312353
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: LDSQA3D09R209050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

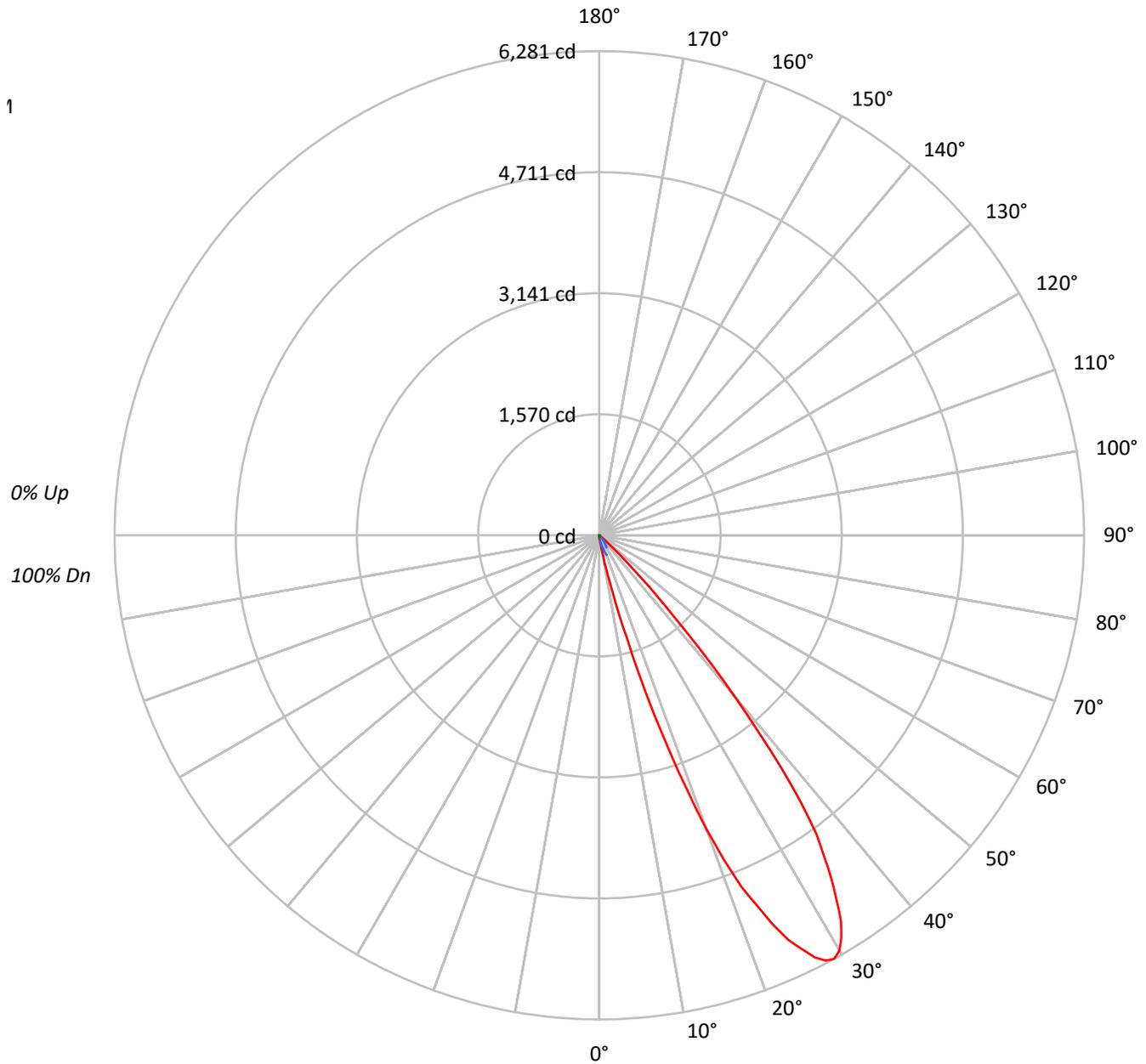
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 881.0 lumens
Efficiency: N/A
Efficacy: 79.4 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): 11.1
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5236	5236	5236	5236	5236
5°	12015	8990	4979	3043	2628
10°	37879	15652	4057	1679	1259
15°	245409	28938	2995	571	143
20°	740635	49521	2053	0	0
25°	1099950	49977	1216	0	0
30°	1236944	37983	477	0	0
35°	1067246	22685	336	0	0
40°	614547	7734	0	0	0
45°	149887	3118	195	0	195
50°	17978	857	214	214	643
55°	2402	0	480	480	961
60°	276	0	827	827	1378
65°	326	326	1304	1304	1956
70°	403	403	1611	1611	2014
75°	0	532	2129	1597	2129
80°	0	793	2380	1587	2380
85°	0	1581	4742	1581	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 150861 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	81.6	9.3
20°-30°	355.9	40.4
30°-40°	358.4	40.7
40°-50°	71.9	8.2
50°-60°	3.6	0.4
60°-70°	2.4	0.3
70°-80°	2.1	0.2
80°-90°	1.1	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°	441.6	50.1
0°-40°	800.0	90.8
0°-60°	875.5	99.4
0°-90°	881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	881.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	70	52	29	18	15	11
15°	1376	162	17	3	1	539
25°	5788	263	6	0	0	2610
35°	5076	108	2	0	0	3020
45°	615	13	1	0	1	670
55°	8	0	2	2	3	15
65°	1	1	3	3	5	1
75°	0	1	3	2	3	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°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2.5°	45.6	45.6	44.8	44.8	44.0	44.8	43.2	44.0	44.0	43.2	39.2
5°	69.5	71.1	70.3	70.3	69.5	70.3	68.7	67.1	65.5	65.5	52.0
7.5°	114.3	113.5	111.9	112.7	110.3	108.7	107.1	106.3	101.5	99.1	67.9
10°	216.6	221.4	217.4	216.6	202.2	201.4	191.8	178.2	166.2	159.9	89.5
12.5°	596.3	621.8	581.9	562.7	551.5	508.3	490.0	442.8	397.2	362.9	113.5
15°	1376.4	1439.5	1358.8	1364.4	1297.2	1174.1	1066.2	973.5	864.0	753.7	162.3
17.5°	2696.8	2645.6	2601.6	2527.3	2390.6	2210.0	1977.4	1741.6	1537.8	1324.4	226.2
20°	4041.1	3995.6	3895.7	3733.4	3559.2	3291.4	3014.9	2660.8	2317.9	1996.6	270.2
21°	4503.9	4488.7	4324.9	4225.0	3956.4	3700.6	3381.7	3002.9	2616.8	2236.4	277.3
22°	4917.1	4826.0	4738.1	4590.2	4323.3	4045.1	3690.3	3291.4	2872.6	2449.8	278.1
23°	5203.3	5161.7	5078.6	4911.5	4646.2	4319.3	3945.2	3528.0	3086.8	2600.8	275.8
24°	5519.8	5467.0	5345.6	5150.5	4882.8	4559.9	4133.1	3719.0	3239.5	2727.9	269.4
25°	5788.4	5706.0	5562.2	5352.0	5059.4	4726.1	4296.9	3842.1	3345.8	2813.5	263.0
26°	5962.6	5917.8	5733.2	5504.6	5191.3	4847.6	4409.6	3936.4	3414.5	2852.6	252.6
27°	6144.0	6061.7	5880.3	5617.3	5277.6	4926.7	4473.5	3982.0	3438.5	2854.2	239.8
28°	6247.9	6158.4	5953.0	5676.5	5333.6	4970.7	4510.3	3996.4	3433.7	2829.4	224.6
29°	6280.7	6168.0	5967.4	5686.0	5347.2	4973.9	4504.7	3975.6	3391.3	2768.7	207.0
30°	6220.0	6104.9	5914.6	5640.5	5304.0	4933.9	4452.8	3906.9	3316.2	2681.6	191.0
31°	6087.3	5989.8	5805.9	5531.0	5208.1	4840.4	4335.3	3794.2	3188.3	2564.9	172.6
32°	5912.2	5816.3	5635.7	5387.1	5058.6	4687.8	4174.6	3618.3	3038.0	2390.6	154.3
33°	5649.3	5594.1	5431.9	5194.5	4866.0	4469.6	3958.8	3408.1	2823.8	2197.2	138.3
34°	5383.1	5313.6	5200.1	4940.3	4587.0	4191.4	3677.5	3118.0	2562.5	1980.6	123.1
35°	5076.2	5034.6	4856.4	4648.6	4293.7	3889.3	3378.5	2835.8	2258.0	1739.2	107.9
36°	4778.9	4714.9	4511.9	4292.1	3947.6	3510.4	3006.1	2496.1	1995.0	1513.0	91.9
37°	4347.3	4249.7	4105.1	3873.3	3470.5	3098.0	2637.6	2164.4	1671.3	1268.5	74.3
38°	3839.7	3794.2	3593.5	3360.2	3026.9	2673.6	2218.0	1816.8	1378.8	1059.0	56.7
39°	3241.1	3240.3	3048.4	2879.8	2553.7	2235.6	1824.7	1474.7	1138.2	852.8	44.0
40°	2733.5	2639.2	2520.9	2309.1	2058.9	1788.8	1429.1	1154.2	883.2	687.4	34.4
42.5°	1433.1	1425.1	1355.6	1196.5	1056.6	897.6	713.8	594.7	465.2	378.9	21.6
45°	615.4	619.4	571.5	547.5	493.2	426.8	360.5	300.5	257.4	208.6	12.8
47.5°	155.9	149.5	147.9	153.5	153.5	148.7	133.5	125.5	115.9	106.3	7.2
50°	67.1	65.5	63.9	63.9	59.9	57.5	53.6	48.8	44.8	40.0	3.2
52.5°	24.8	25.6	26.4	25.6	25.6	24.8	24.8	24.0	21.6	19.2	1.6
55°	8.0	8.0	8.0	8.8	8.8	9.6	9.6	9.6	9.6	8.8	0.0
57.5°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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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	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1312353

CATALOG NUMBER: LDSQA3D09R209050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	30.4	30.4	30.4	30.4	30.4	30.4
2.5°	35.2	31.2	26.4	22.4	21.6	20.8
5°	39.2	28.8	21.6	17.6	16.0	15.2
7.5°	42.4	26.4	17.6	12.8	11.2	10.4
10°	44.0	23.2	14.4	9.6	7.2	7.2
12.5°	44.8	20.0	10.4	6.4	4.0	4.0
15°	44.0	16.8	8.0	3.2	0.8	0.8
17.5°	40.0	13.6	4.8	0.8	0.0	0.0
20°	34.4	11.2	3.2	0.0	0.0	0.0
21°	32.8	9.6	2.4	0.0	0.0	0.0
22°	30.4	8.8	1.6	0.0	0.0	0.0
23°	28.0	8.0	1.6	0.0	0.0	0.0
24°	25.6	7.2	0.8	0.0	0.0	0.0
25°	24.0	6.4	0.8	0.0	0.0	0.0
26°	22.4	5.6	0.8	0.0	0.0	0.0
27°	20.0	4.8	0.0	0.0	0.0	0.0
28°	18.4	4.0	0.0	0.0	0.0	0.0
29°	16.0	3.2	0.0	0.0	0.0	0.0
30°	13.6	2.4	0.0	0.0	0.0	0.0
31°	11.2	2.4	0.0	0.0	0.0	0.0
32°	9.6	1.6	0.0	0.0	0.0	0.0
33°	8.0	1.6	0.0	0.0	0.0	0.0
34°	7.2	1.6	0.0	0.0	0.0	0.0
35°	6.4	1.6	0.0	0.0	0.0	0.0
36°	4.8	0.8	0.0	0.0	0.0	0.0
37°	4.0	0.8	0.0	0.0	0.0	0.0
38°	3.2	0.8	0.0	0.0	0.0	0.0
39°	2.4	0.0	0.0	0.0	0.0	0.0
40°	2.4	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.6
50°	0.0	0.8	0.8	0.8	1.6	2.4
52.5°	0.0	1.6	0.8	0.8	2.4	2.4
55°	0.8	1.6	0.8	1.6	3.2	3.2
57.5°	0.8	1.6	1.6	2.4	3.2	4.0
60°	1.6	2.4	2.4	2.4	4.0	4.0
62.5°	1.6	2.4	3.2	3.2	4.0	4.8
65°	1.6	3.2	3.2	3.2	4.0	4.8
67.5°	2.4	3.2	3.2	3.2	4.0	4.8
70°	2.4	3.2	3.2	3.2	4.0	4.0
72.5°	2.4	3.2	2.4	3.2	3.2	4.0
75°	2.4	3.2	2.4	2.4	3.2	3.2
77.5°	1.6	2.4	2.4	1.6	2.4	2.4
80°	1.6	2.4	1.6	1.6	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.6	2.4	1.6	0.8	1.6	1.6
85°	1.6	2.4	1.6	0.8	0.8	0.8
87.5°	1.6	2.4	1.6	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)