

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: P1315729

Luminaire Tested: LDSQA3D17R209735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315729
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: LDSQA3D17R209735DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

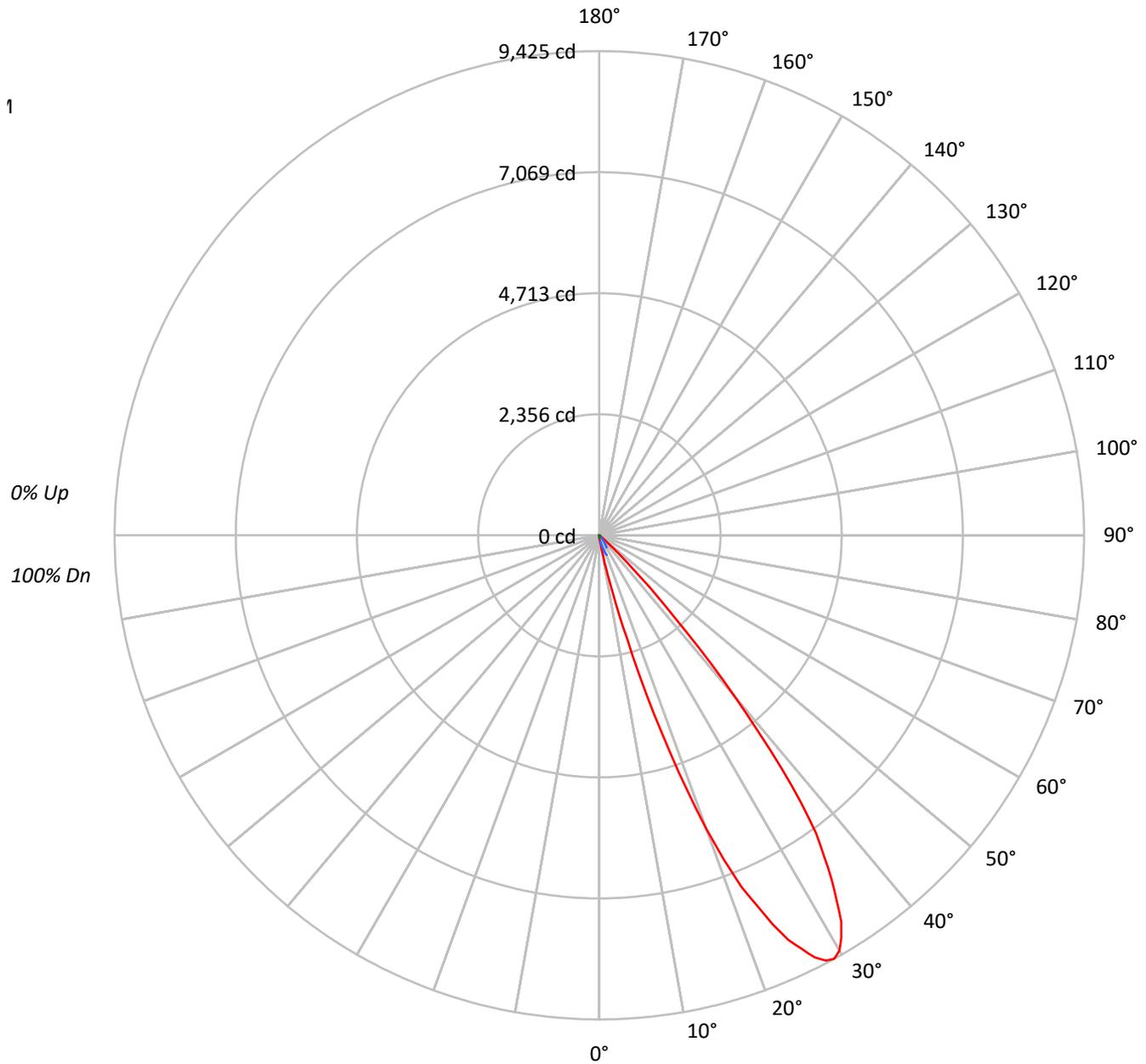
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1322.0 lumens
Efficiency: N/A
Efficacy: 62.4 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): 21.2
Input Voltage (V): NR
Input Current (A_{in}): 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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7853	7853	7853	7853	7853
5°	18031	13485	7468	4564	3942
10°	56836	23486	6086	2518	1889
15°	368239	43416	4493	856	214
20°	1111383	74300	3079	0	0
25°	1650534	74985	1824	0	0
30°	1856112	56995	716	0	0
35°	1601478	34039	505	0	0
40°	922170	11601	0	0	0
45°	224927	4676	292	0	292
50°	26981	1286	322	322	965
55°	3603	0	721	721	1441
60°	413	0	1240	1240	2067
65°	489	489	1956	1956	2934
70°	604	604	2417	2417	3021
75°	0	799	3194	2396	3194
80°	0	1190	3570	2380	3570
85°	0	2371	7114	2371	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 226389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.5
10°-20°	122.5	9.3
20°-30°	534.0	40.4
30°-40°	537.8	40.7
40°-50°	107.9	8.2
50°-60°	5.4	0.4
60°-70°	3.6	0.3
70°-80°	3.2	0.2
80°-90°	1.6	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°	662.6	50.1
0°-40°	1200.4	90.8
0°-60°	1313.7	99.4
0°-90°	1322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1322.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	104	78	43	26	23	16
15°	2065	244	25	5	1	809
25°	8686	395	10	0	0	3916
35°	7617	162	2	0	0	4532
45°	924	19	1	0	1	1005
55°	12	0	2	2	5	22
65°	1	1	5	5	7	1
75°	0	1	5	4	5	0
85°	0	1	4	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°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
2.5°	68.4	68.4	67.2	67.2	66.0	67.2	64.8	66.0	66.0	64.8	58.8
5°	104.3	106.7	105.5	105.5	104.3	105.5	103.1	100.7	98.3	98.3	78.0
7.5°	171.5	170.3	167.9	169.1	165.5	163.1	160.7	159.5	152.3	148.7	101.9
10°	325.0	332.2	326.2	325.0	303.4	302.2	287.8	267.5	249.5	239.9	134.3
12.5°	894.7	933.1	873.1	844.4	827.6	762.8	735.2	664.4	596.1	544.5	170.3
15°	2065.3	2160.1	2038.9	2047.3	1946.6	1761.9	1600.0	1460.8	1296.5	1131.0	243.5
17.5°	4046.7	3969.9	3903.9	3792.4	3587.3	3316.3	2967.2	2613.4	2307.6	1987.4	339.4
20°	6064.0	5995.6	5845.7	5602.2	5340.8	4939.0	4524.0	3992.7	3478.2	2996.0	405.4
21°	6758.4	6735.6	6489.8	6339.9	5936.9	5553.1	5074.5	4506.0	3926.7	3355.8	416.2
22°	7378.5	7241.8	7109.8	6888.0	6487.4	6070.0	5537.5	4939.0	4310.5	3676.1	417.4
23°	7807.9	7745.5	7620.8	7370.1	6971.9	6481.4	5920.1	5294.0	4632.0	3902.7	413.8
24°	8282.8	8203.7	8021.4	7728.7	7326.9	6842.4	6201.9	5580.7	4861.0	4093.4	404.2
25°	8685.8	8562.3	8346.4	8031.0	7592.0	7091.9	6447.8	5765.4	5020.6	4221.8	394.6
26°	8947.3	8880.1	8603.1	8260.0	7789.9	7274.2	6616.9	5906.9	5123.7	4280.5	379.0
27°	9219.5	9096.0	8823.7	8429.2	7919.4	7392.9	6712.9	5975.2	5159.7	4282.9	359.8
28°	9375.5	9241.1	8932.9	8517.9	8003.4	7458.9	6768.0	5996.8	5152.5	4245.8	337.0
29°	9424.6	9255.5	8954.5	8532.3	8023.8	7463.7	6759.6	5965.7	5088.9	4154.6	310.6
30°	9333.5	9160.8	8875.3	8463.9	7959.0	7403.7	6681.7	5862.5	4976.2	4023.9	286.6
31°	9134.4	8988.1	8712.2	8299.6	7815.1	7263.4	6505.4	5693.4	4784.3	3848.8	259.1
32°	8871.7	8727.8	8456.7	8083.7	7590.8	7034.3	6264.3	5429.5	4558.8	3587.3	231.5
33°	8477.1	8394.4	8150.9	7794.7	7301.7	6706.9	5940.5	5114.1	4237.4	3297.1	207.5
34°	8077.7	7973.4	7803.1	7413.3	6883.2	6289.5	5518.3	4678.7	3845.2	2972.0	184.7
35°	7617.2	7554.8	7287.4	6975.5	6443.0	5836.1	5069.7	4255.4	3388.2	2609.8	161.9
36°	7171.0	7075.1	6770.4	6440.6	5923.7	5267.6	4510.8	3745.6	2993.6	2270.4	137.9
37°	6523.4	6377.0	6160.0	5812.1	5207.7	4648.7	3957.9	3247.9	2507.9	1903.4	111.5
38°	5761.8	5693.4	5392.4	5042.1	4542.0	4011.9	3328.2	2726.2	2068.9	1589.2	85.2
39°	4863.4	4862.2	4574.4	4321.3	3832.0	3354.6	2738.2	2212.8	1707.9	1279.7	66.0
40°	4101.8	3960.3	3782.8	3465.0	3089.6	2684.2	2144.5	1731.9	1325.3	1031.5	51.6
42.5°	2150.5	2138.5	2034.1	1795.5	1585.6	1346.9	1071.0	892.3	698.0	568.5	32.4
45°	923.5	929.5	857.5	821.6	740.0	640.5	540.9	451.0	386.2	313.0	19.2
47.5°	233.9	224.3	221.9	230.3	230.3	223.1	200.3	188.3	173.9	159.5	10.8
50°	100.7	98.3	95.9	95.9	90.0	86.4	80.4	73.2	67.2	60.0	4.8
52.5°	37.2	38.4	39.6	38.4	38.4	37.2	37.2	36.0	32.4	28.8	2.4
55°	12.0	12.0	12.0	13.2	13.2	14.4	14.4	14.4	14.4	13.2	0.0
57.5°	2.4	2.4	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	0.0
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	1.2	0.0	1.2	1.2	0.0	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2



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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	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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: P1315729

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	45.6	45.6	45.6	45.6	45.6	45.6
2.5°	52.8	46.8	39.6	33.6	32.4	31.2
5°	58.8	43.2	32.4	26.4	24.0	22.8
7.5°	63.6	39.6	26.4	19.2	16.8	15.6
10°	66.0	34.8	21.6	14.4	10.8	10.8
12.5°	67.2	30.0	15.6	9.6	6.0	6.0
15°	66.0	25.2	12.0	4.8	1.2	1.2
17.5°	60.0	20.4	7.2	1.2	0.0	0.0
20°	51.6	16.8	4.8	0.0	0.0	0.0
21°	49.2	14.4	3.6	0.0	0.0	0.0
22°	45.6	13.2	2.4	0.0	0.0	0.0
23°	42.0	12.0	2.4	0.0	0.0	0.0
24°	38.4	10.8	1.2	0.0	0.0	0.0
25°	36.0	9.6	1.2	0.0	0.0	0.0
26°	33.6	8.4	1.2	0.0	0.0	0.0
27°	30.0	7.2	0.0	0.0	0.0	0.0
28°	27.6	6.0	0.0	0.0	0.0	0.0
29°	24.0	4.8	0.0	0.0	0.0	0.0
30°	20.4	3.6	0.0	0.0	0.0	0.0
31°	16.8	3.6	0.0	0.0	0.0	0.0
32°	14.4	2.4	0.0	0.0	0.0	0.0
33°	12.0	2.4	0.0	0.0	0.0	0.0
34°	10.8	2.4	0.0	0.0	0.0	0.0
35°	9.6	2.4	0.0	0.0	0.0	0.0
36°	7.2	1.2	0.0	0.0	0.0	0.0
37°	6.0	1.2	0.0	0.0	0.0	0.0
38°	4.8	1.2	0.0	0.0	0.0	0.0
39°	3.6	0.0	0.0	0.0	0.0	0.0
40°	3.6	0.0	0.0	0.0	0.0	0.0
42.5°	1.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.2	0.0	0.0	1.2	1.2
47.5°	0.0	1.2	0.0	0.0	1.2	2.4
50°	0.0	1.2	1.2	1.2	2.4	3.6
52.5°	0.0	2.4	1.2	1.2	3.6	3.6
55°	1.2	2.4	1.2	2.4	4.8	4.8
57.5°	1.2	2.4	2.4	3.6	4.8	6.0
60°	2.4	3.6	3.6	3.6	6.0	6.0
62.5°	2.4	3.6	4.8	4.8	6.0	7.2
65°	2.4	4.8	4.8	4.8	6.0	7.2
67.5°	3.6	4.8	4.8	4.8	6.0	7.2
70°	3.6	4.8	4.8	4.8	6.0	6.0
72.5°	3.6	4.8	3.6	4.8	4.8	6.0
75°	3.6	4.8	3.6	3.6	4.8	4.8
77.5°	2.4	3.6	3.6	2.4	3.6	3.6
80°	2.4	3.6	2.4	2.4	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.4	3.6	2.4	1.2	2.4	2.4
85°	2.4	3.6	2.4	1.2	1.2	1.2
87.5°	2.4	3.6	2.4	1.2	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)