

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: P1313769

Luminaire Tested: LDSQA3D17R159727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R159727DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

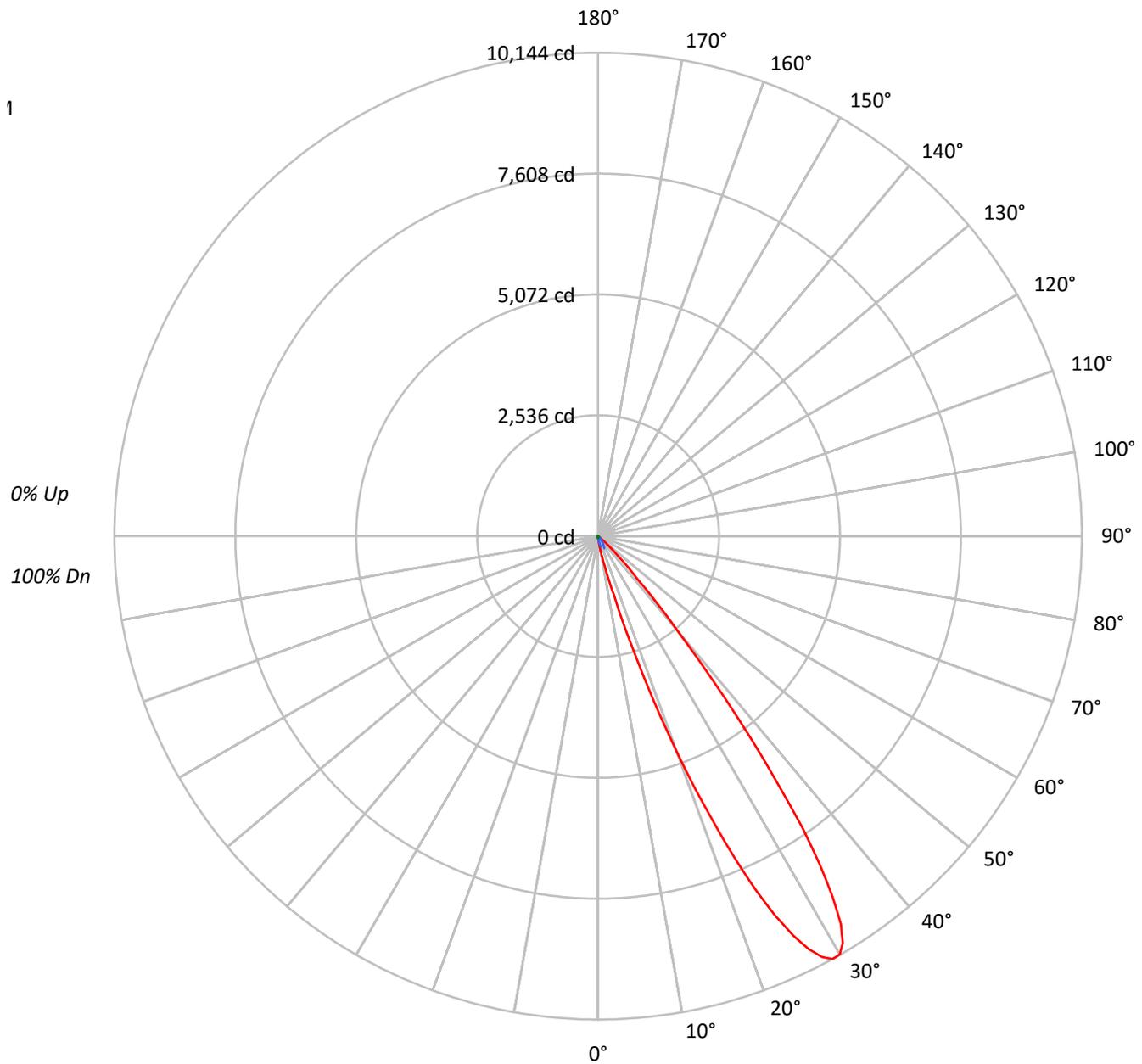
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1108.1 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
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 (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	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	75	71	79	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6303	6303	6303	6303	6303
5°	13606	10062	5964	3164	2610
10°	60316	19044	4704	1312	944
15°	228114	44004	3263	571	392
20°	877248	62020	1979	202	202
25°	1668187	58167	1026	0	0
30°	2015204	46932	438	0	0
35°	1571729	31957	231	0	0
40°	573563	15760	247	0	247
45°	147256	4725	268	0	536
50°	24837	589	295	295	857
55°	3243	0	661	961	1621
60°	379	379	1102	1481	2239
65°	448	448	1752	2201	2649
70°	554	554	2165	2165	2719
75°	732	732	2861	2129	2861
80°	0	1091	3174	2182	3174
85°	0	2174	6323	2174	2174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 147256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.5
10°-20°	84.9	7.7
20°-30°	470.9	42.5
30°-40°	454.9	41.1
40°-50°	79.1	7.1
50°-60°	5.7	0.5
60°-70°	3.4	0.3
70°-80°	2.7	0.2
80°-90°	1.4	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°	560.8	50.6
0°-40°	1015.8	91.7
0°-60°	1100.6	99.3
0°-90°	1108.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	79	58	34	18	15	15
15°	1279	247	18	3	2	570
25°	8779	306	5	0	0	3925
35°	7476	152	1	0	0	4299
45°	605	19	1	0	2	649
55°	11	0	2	3	5	21
65°	1	1	4	5	6	1
75°	1	1	4	3	4	1
85°	0	1	3	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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	53.9	51.7	52.8	52.8	52.8	52.8	52.8	50.7	50.7	51.7	46.3
5°	78.7	78.7	77.6	78.7	78.7	77.6	75.4	74.4	74.4	72.2	58.2
7.5°	157.4	155.2	155.2	153.0	142.3	139.0	136.9	131.5	121.8	119.6	75.4
10°	344.9	346.0	338.4	328.7	327.7	311.5	306.1	296.4	278.1	259.8	108.9
12.5°	626.2	612.2	593.9	594.9	563.7	552.9	528.1	501.2	473.2	444.1	178.9
15°	1279.4	1239.5	1263.2	1205.0	1139.2	1064.9	989.4	894.6	813.7	727.5	246.8
17.5°	2694.5	2733.3	2667.6	2418.6	2265.5	2085.6	1832.3	1587.6	1378.5	1210.4	301.8
20°	4786.5	4843.7	4620.6	4403.9	4032.1	3626.8	3204.3	2725.8	2267.7	1871.1	338.4
21°	5660.6	5626.1	5534.5	5187.5	4758.5	4288.6	3771.2	3243.1	2688.0	2172.9	341.7
22°	6505.6	6521.8	6308.4	5945.2	5499.0	4978.4	4346.8	3694.7	3096.5	2418.6	336.3
23°	7347.4	7399.1	7116.7	6776.2	6214.6	5627.2	4896.5	4192.7	3453.3	2699.9	325.5
24°	8126.7	8091.1	7900.3	7471.3	6871.0	6183.4	5424.6	4571.0	3746.5	2940.3	316.9
25°	8778.7	8774.4	8474.8	8057.7	7371.1	6609.1	5772.7	4880.3	3997.6	3103.0	306.1
26°	9312.2	9224.9	8988.9	8480.2	7802.2	6998.2	6058.3	5105.6	4138.8	3184.9	295.3
27°	9724.0	9661.4	9344.6	8815.4	8107.3	7218.1	6241.6	5217.7	4203.4	3211.9	281.3
28°	10001.0	9933.1	9595.7	9050.3	8275.4	7356.0	6338.6	5265.1	4203.4	3186.0	268.4
29°	10144.3	10051.6	9715.3	9131.2	8314.2	7372.2	6314.9	5218.7	4137.7	3106.2	253.3
30°	10133.5	10018.2	9665.8	9057.9	8198.9	7239.6	6182.3	5051.7	3989.0	2987.7	236.0
31°	9958.9	9829.6	9436.2	8810.0	7960.7	6989.6	5932.2	4827.5	3785.3	2833.6	218.8
32°	9604.3	9440.5	9056.8	8432.7	7594.2	6615.6	5569.0	4481.5	3480.2	2608.3	200.5
33°	9026.6	8861.7	8450.0	7864.7	7098.4	6141.3	5087.2	4109.7	3133.2	2339.9	185.4
34°	8303.4	8152.5	7797.9	7208.4	6473.3	5541.0	4533.2	3595.6	2773.2	2073.7	169.2
35°	7475.7	7235.3	6914.1	6447.4	5730.7	4793.0	3935.1	3117.0	2402.4	1794.5	152.0
36°	6355.8	6398.9	6058.3	5487.1	4893.2	4158.2	3334.7	2598.6	2009.0	1529.4	136.9
37°	5363.2	5295.3	5078.6	4636.7	4119.4	3389.7	2794.7	2203.0	1690.0	1293.4	120.7
38°	4326.3	4341.4	4129.1	3789.6	3276.5	2787.2	2249.4	1809.6	1414.1	1100.4	105.6
39°	3386.5	3374.6	3317.5	3002.8	2538.2	2217.0	1822.6	1500.3	1178.0	928.0	89.5
40°	2551.2	2570.6	2436.9	2247.2	1976.7	1712.6	1451.8	1196.4	974.3	782.5	70.1
42.5°	1240.6	1270.7	1182.4	1133.9	1014.2	910.7	768.5	627.3	533.5	461.3	31.3
45°	604.6	587.4	579.9	556.1	528.1	472.1	418.2	358.9	313.6	270.5	19.4
47.5°	309.3	300.7	300.7	291.0	281.3	263.0	236.0	216.6	195.1	168.1	7.5
50°	92.7	91.6	90.5	91.6	88.4	91.6	93.8	94.8	86.2	85.1	2.2
52.5°	36.6	37.7	36.6	39.9	39.9	38.8	39.9	38.8	37.7	33.4	0.0
55°	10.8	10.8	10.8	10.8	10.8	10.8	11.9	12.9	11.9	12.9	0.0
57.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1



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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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	43.1	37.7	31.3	25.9	23.7	22.6
5°	46.3	34.5	23.7	18.3	16.2	15.1
7.5°	49.6	31.3	18.3	12.9	9.7	8.6
10°	51.7	26.9	14.0	7.5	5.4	5.4
12.5°	51.7	21.6	9.7	4.3	3.2	3.2
15°	50.7	18.3	6.5	3.2	2.2	2.2
17.5°	49.6	14.0	4.3	2.2	1.1	2.2
20°	46.3	10.8	2.2	1.1	1.1	1.1
21°	45.3	9.7	2.2	1.1	1.1	1.1
22°	43.1	8.6	1.1	0.0	1.1	1.1
23°	41.0	6.5	1.1	0.0	0.0	0.0
24°	37.7	5.4	1.1	0.0	0.0	0.0
25°	35.6	5.4	1.1	0.0	0.0	0.0
26°	33.4	3.2	0.0	0.0	0.0	0.0
27°	30.2	2.2	0.0	0.0	0.0	0.0
28°	28.0	2.2	0.0	0.0	0.0	0.0
29°	24.8	2.2	0.0	0.0	0.0	0.0
30°	21.6	2.2	0.0	0.0	0.0	0.0
31°	17.2	1.1	0.0	0.0	0.0	0.0
32°	14.0	1.1	0.0	0.0	0.0	0.0
33°	9.7	1.1	0.0	0.0	0.0	0.0
34°	6.5	1.1	0.0	0.0	0.0	0.0
35°	5.4	1.1	0.0	0.0	0.0	0.0
36°	3.2	1.1	0.0	0.0	0.0	1.1
37°	3.2	1.1	0.0	0.0	0.0	1.1
38°	2.2	1.1	0.0	0.0	0.0	1.1
39°	1.1	1.1	0.0	0.0	0.0	1.1
40°	1.1	1.1	0.0	0.0	0.0	1.1
42.5°	0.0	1.1	0.0	0.0	1.1	2.2
45°	0.0	1.1	0.0	0.0	1.1	2.2
47.5°	0.0	1.1	0.0	0.0	2.2	2.2
50°	0.0	1.1	1.1	1.1	2.2	3.2
52.5°	0.0	2.2	1.1	2.2	3.2	4.3
55°	1.1	2.2	2.2	3.2	4.3	5.4
57.5°	1.1	3.2	3.2	4.3	5.4	5.4
60°	2.2	3.2	4.3	4.3	6.5	6.5
62.5°	2.2	4.3	4.3	4.3	6.5	6.5
65°	2.2	4.3	4.3	5.4	6.5	6.5
67.5°	2.2	4.3	4.3	4.3	5.4	6.5
70°	2.2	4.3	3.2	4.3	5.4	5.4
72.5°	2.2	4.3	3.2	3.2	4.3	5.4
75°	2.2	4.3	3.2	3.2	4.3	4.3
77.5°	2.2	3.2	3.2	2.2	3.2	3.2
80°	2.2	3.2	2.2	2.2	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.2	3.2	2.2	1.1	2.2	2.2
85°	2.2	3.2	2.2	1.1	1.1	1.1
87.5°	2.2	3.2	1.1	0.0	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)