

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: P1319178

Luminaire Tested: LDSQA3D13R159835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319178
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: LDSQA3D13R159835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

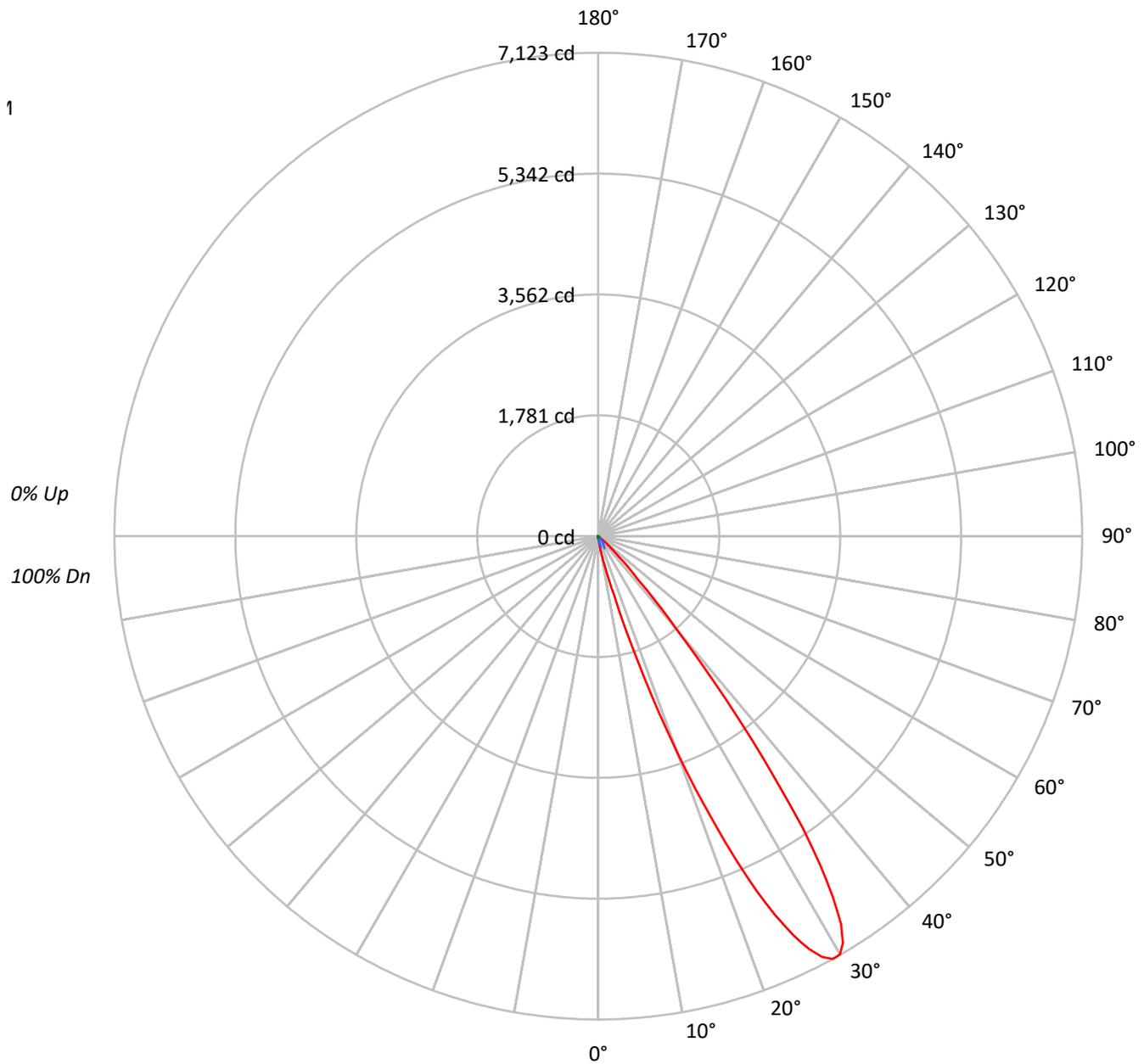
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 778.0 lumens
Efficiency: N/A
Efficacy: 53.7 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): 14.5
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				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	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	47	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	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4426	4426	4426	4426	4426
5°	9543	7071	4184	2230	1833
10°	42356	13361	3305	927	665
15°	160165	30899	2300	410	267
20°	615971	43546	1393	147	147
25°	1171343	40837	722	0	0
30°	1415008	32952	298	0	0
35°	1103618	22433	168	0	0
40°	402721	11061	180	0	180
45°	103415	3312	195	0	365
50°	17442	402	214	214	616
55°	2282	0	450	691	1141
60°	276	276	792	1033	1550
65°	326	326	1223	1549	1834
70°	403	403	1511	1511	1913
75°	532	532	1996	1530	1996
80°	0	793	2281	1488	2281
85°	0	1581	4545	1581	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 103415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	59.6	7.7
20°-30°	330.7	42.5
30°-40°	319.4	41.1
40°-50°	55.6	7.1
50°-60°	4.0	0.5
60°-70°	2.3	0.3
70°-80°	1.9	0.2
80°-90°	1.0	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°	393.8	50.6
0°-40°	713.2	91.7
0°-60°	772.8	99.3
0°-90°	778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	55	41	24	13	11	11
15°	898	173	13	2	2	400
25°	6164	215	4	0	0	2756
35°	5249	107	1	0	0	3019
45°	425	14	1	0	2	456
55°	8	0	2	2	4	15
65°	1	1	3	4	4	1
75°	1	1	3	2	3	1
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°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	37.8	36.3	37.1	37.1	37.1	37.1	37.1	35.6	35.6	36.3	32.5
5°	55.2	55.2	54.5	55.2	55.2	54.5	53.0	52.2	52.2	50.7	40.9
7.5°	110.5	109.0	109.0	107.5	99.9	97.6	96.1	92.3	85.5	84.0	53.0
10°	242.2	242.9	237.6	230.8	230.1	218.7	214.9	208.1	195.3	182.4	76.4
12.5°	439.7	429.9	417.0	417.8	395.8	388.2	370.8	351.9	332.2	311.8	125.6
15°	898.3	870.3	887.0	846.1	799.9	747.7	694.7	628.1	571.4	510.8	173.3
17.5°	1892.0	1919.2	1873.1	1698.3	1590.8	1464.4	1286.6	1114.8	967.9	849.9	211.9
20°	3360.9	3401.1	3244.4	3092.3	2831.2	2546.6	2250.0	1913.9	1592.3	1313.8	237.6
21°	3974.7	3950.5	3886.2	3642.5	3341.3	3011.3	2648.0	2277.2	1887.5	1525.7	239.9
22°	4568.0	4579.4	4429.5	4174.5	3861.2	3495.7	3052.2	2594.3	2174.3	1698.3	236.1
23°	5159.1	5195.4	4997.1	4758.0	4363.7	3951.2	3438.1	2943.9	2424.8	1895.8	228.6
24°	5706.3	5681.3	5547.3	5246.1	4824.6	4341.8	3809.0	3209.6	2630.6	2064.5	222.5
25°	6164.1	6161.1	5950.7	5657.8	5175.7	4640.7	4053.4	3426.8	2807.0	2178.8	214.9
26°	6538.7	6477.4	6311.7	5954.5	5478.5	4913.9	4254.0	3585.0	2906.1	2236.3	207.4
27°	6827.8	6783.9	6561.4	6189.9	5692.6	5068.3	4382.6	3663.7	2951.5	2255.3	197.5
28°	7022.3	6974.7	6737.8	6354.8	5810.7	5165.1	4450.7	3697.0	2951.5	2237.1	188.4
29°	7123.0	7057.9	6821.8	6411.6	5837.9	5176.5	4434.1	3664.4	2905.3	2181.1	177.8
30°	7115.4	7034.4	6787.0	6360.1	5757.0	5083.4	4341.0	3547.1	2800.9	2097.8	165.7
31°	6992.8	6902.0	6625.8	6186.1	5589.7	4907.8	4165.4	3389.7	2657.9	1989.6	153.6
32°	6743.8	6628.8	6359.4	5921.2	5332.4	4645.2	3910.4	3146.8	2443.7	1831.5	140.8
33°	6338.2	6222.4	5933.3	5522.4	4984.3	4312.2	3572.1	2885.7	2200.0	1643.0	130.2
34°	5830.4	5724.4	5475.4	5061.5	4545.3	3890.7	3183.1	2524.7	1947.2	1456.1	118.8
35°	5249.2	5080.4	4854.9	4527.2	4023.9	3365.5	2763.1	2188.7	1686.9	1260.1	106.7
36°	4462.8	4493.1	4254.0	3852.9	3435.9	2919.7	2341.5	1824.6	1410.7	1073.9	96.1
37°	3765.8	3718.2	3566.0	3255.7	2892.5	2380.1	1962.4	1546.9	1186.7	908.2	84.8
38°	3037.8	3048.4	2899.3	2660.9	2300.7	1957.1	1579.4	1270.7	992.9	772.7	74.2
39°	2377.9	2369.5	2329.4	2108.4	1782.3	1556.7	1279.7	1053.5	827.2	651.6	62.8
40°	1791.3	1805.0	1711.1	1577.9	1388.0	1202.6	1019.4	840.0	684.1	549.4	49.2
42.5°	871.1	892.3	830.2	796.2	712.1	639.5	539.6	440.5	374.6	323.9	21.9
45°	424.6	412.5	407.2	390.5	370.8	331.5	293.6	252.0	220.2	190.0	13.6
47.5°	217.2	211.1	211.1	204.3	197.5	184.7	165.7	152.1	137.0	118.1	5.3
50°	65.1	64.3	63.6	64.3	62.1	64.3	65.8	66.6	60.5	59.8	1.5
52.5°	25.7	26.5	25.7	28.0	28.0	27.2	28.0	27.2	26.5	23.5	0.0
55°	7.6	7.6	7.6	7.6	7.6	7.6	8.3	9.1	8.3	9.1	0.0
57.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8
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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	30.3	26.5	21.9	18.2	16.6	15.9
5°	32.5	24.2	16.6	12.9	11.4	10.6
7.5°	34.8	21.9	12.9	9.1	6.8	6.1
10°	36.3	18.9	9.8	5.3	3.8	3.8
12.5°	36.3	15.1	6.8	3.0	2.3	2.3
15°	35.6	12.9	4.5	2.3	1.5	1.5
17.5°	34.8	9.8	3.0	1.5	0.8	1.5
20°	32.5	7.6	1.5	0.8	0.8	0.8
21°	31.8	6.8	1.5	0.8	0.8	0.8
22°	30.3	6.1	0.8	0.0	0.8	0.8
23°	28.8	4.5	0.8	0.0	0.0	0.0
24°	26.5	3.8	0.8	0.0	0.0	0.0
25°	25.0	3.8	0.8	0.0	0.0	0.0
26°	23.5	2.3	0.0	0.0	0.0	0.0
27°	21.2	1.5	0.0	0.0	0.0	0.0
28°	19.7	1.5	0.0	0.0	0.0	0.0
29°	17.4	1.5	0.0	0.0	0.0	0.0
30°	15.1	1.5	0.0	0.0	0.0	0.0
31°	12.1	0.8	0.0	0.0	0.0	0.0
32°	9.8	0.8	0.0	0.0	0.0	0.0
33°	6.8	0.8	0.0	0.0	0.0	0.0
34°	4.5	0.8	0.0	0.0	0.0	0.0
35°	3.8	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.8	0.0	0.0	0.0	0.8
37°	2.3	0.8	0.0	0.0	0.0	0.8
38°	1.5	0.8	0.0	0.0	0.0	0.8
39°	0.8	0.8	0.0	0.0	0.0	0.8
40°	0.8	0.8	0.0	0.0	0.0	0.8
42.5°	0.0	0.8	0.0	0.0	0.8	1.5
45°	0.0	0.8	0.0	0.0	0.8	1.5
47.5°	0.0	0.8	0.0	0.0	1.5	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	1.5	2.3	3.0
55°	0.8	1.5	1.5	2.3	3.0	3.8
57.5°	0.8	2.3	2.3	3.0	3.8	3.8
60°	1.5	2.3	3.0	3.0	4.5	4.5
62.5°	1.5	3.0	3.0	3.0	4.5	4.5
65°	1.5	3.0	3.0	3.8	4.5	4.5
67.5°	1.5	3.0	3.0	3.0	3.8	4.5
70°	1.5	3.0	2.3	3.0	3.8	3.8
72.5°	1.5	3.0	2.3	2.3	3.0	3.8
75°	1.5	3.0	2.3	2.3	3.0	3.0
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	0.8	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)