

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: P1308377

Luminaire Tested: LDSQA3D20R159027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308377
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: LDSQA3D20R159027D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

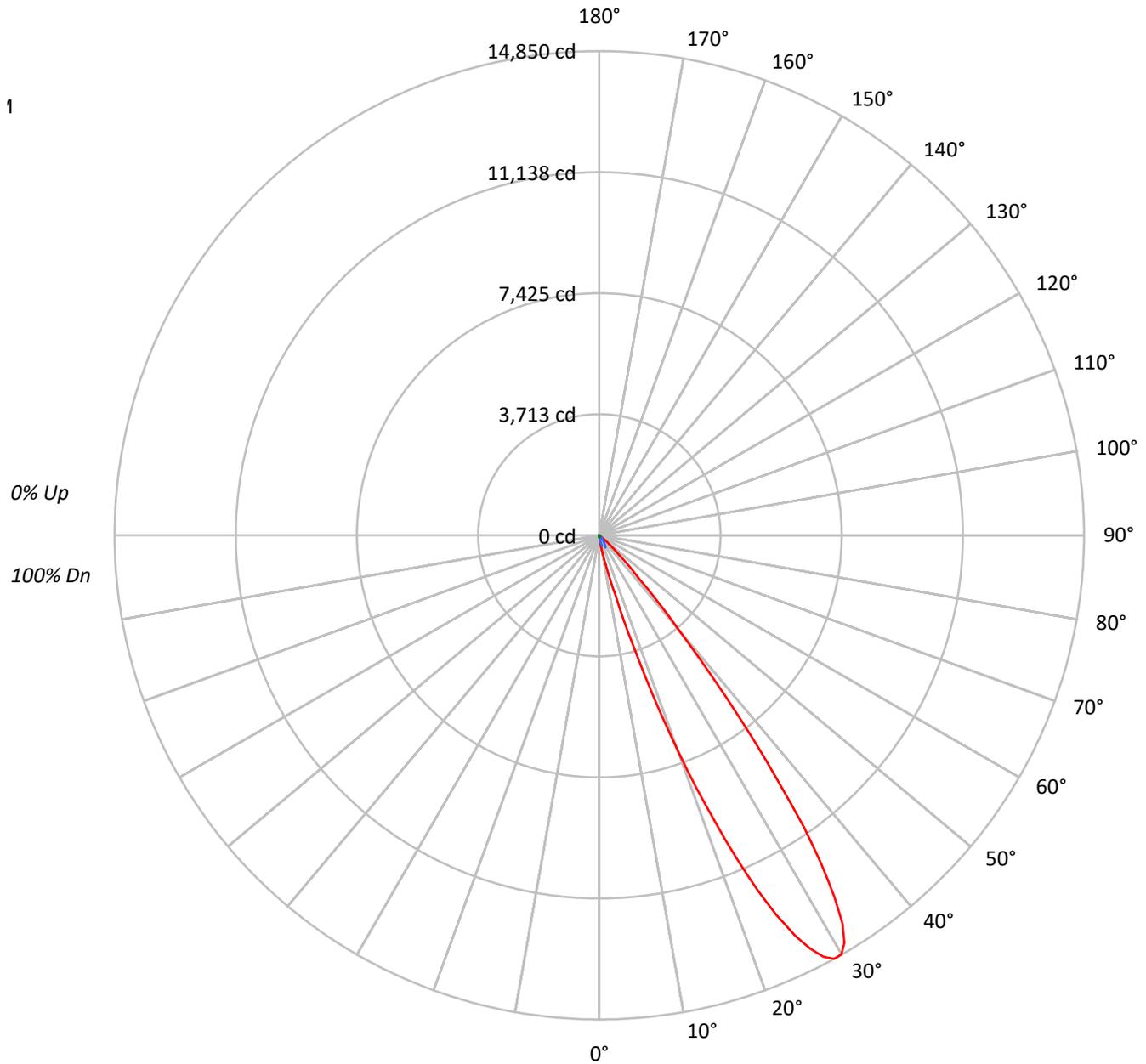
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1622.1 lumens
Efficiency: N/A
Efficacy: 56.3 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): 28.8
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	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°	9231	9231	9231	9231	9231
5°	19916	14729	8730	4633	3821
10°	88297	27876	6890	1924	1382
15°	333916	64419	4778	838	571
20°	1284211	90795	2896	293	293
25°	2442071	85151	1501	0	0
30°	2950071	68708	636	0	0
35°	2300837	46780	336	0	0
40°	839615	23067	360	0	360
45°	215575	6917	390	0	779
50°	36358	857	429	429	1259
55°	4744	0	961	1411	2372
60°	551	551	1619	2170	3272
65°	652	652	2567	3219	3871
70°	806	806	3172	3172	3978
75°	1065	1065	4192	3127	4192
80°	0	1587	4661	3174	4661
85°	0	3162	9287	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 215575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.5
10°-20°	124.3	7.7
20°-30°	689.4	42.5
30°-40°	666.0	41.1
40°-50°	115.8	7.1
50°-60°	8.3	0.5
60°-70°	4.9	0.3
70°-80°	4.0	0.2
80°-90°	2.0	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°	821.0	50.6
0°-40°	1487.0	91.7
0°-60°	1611.1	99.3
0°-90°	1622.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1622.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	115	85	50	27	22	23
15°	1873	361	27	5	3	835
25°	12851	448	8	0	0	5746
35°	10944	222	2	0	0	6294
45°	885	28	2	0	3	951
55°	16	0	3	5	8	31
65°	2	2	6	8	10	2
75°	2	2	6	5	6	1
85°	0	2	5	2	2	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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	78.9	75.7	77.3	77.3	77.3	77.3	77.3	74.2	74.2	75.7	67.8
5°	115.2	115.2	113.6	115.2	115.2	113.6	110.4	108.9	108.9	105.7	85.2
7.5°	230.4	227.2	227.2	224.0	208.3	203.5	200.4	192.5	178.3	175.1	110.4
10°	504.9	506.5	495.4	481.2	479.7	456.0	448.1	433.9	407.1	380.2	159.4
12.5°	916.7	896.2	869.4	870.9	825.2	809.4	773.1	733.7	692.7	650.1	261.9
15°	1872.8	1814.5	1849.2	1764.0	1667.7	1558.9	1448.4	1309.6	1191.2	1065.0	361.3
17.5°	3944.5	4001.3	3905.1	3540.6	3316.5	3053.0	2682.3	2324.1	2018.0	1771.9	441.8
20°	7007.0	7090.6	6764.0	6446.9	5902.5	5309.3	4690.8	3990.3	3319.7	2739.1	495.4
21°	8286.6	8236.1	8102.0	7593.9	6966.0	6278.1	5520.7	4747.6	3935.0	3180.8	500.2
22°	9523.6	9547.3	9234.9	8703.1	8049.9	7287.9	6363.3	5408.7	4533.0	3540.6	492.3
23°	10755.9	10831.6	10418.2	9919.6	9097.6	8237.7	7167.9	6137.6	5055.3	3952.4	476.5
24°	11896.6	11844.5	11565.3	10937.3	10058.5	9051.8	7941.1	6691.4	5484.4	4304.2	463.9
25°	12851.2	12844.9	12406.2	11795.6	10790.6	9675.1	8450.7	7144.3	5852.1	4542.5	448.1
26°	13632.2	13504.4	13158.8	12414.1	11421.7	10244.6	8868.8	7474.0	6058.7	4662.4	432.3
27°	14234.9	14143.4	13679.5	12904.8	11868.2	10566.5	9137.0	7638.1	6153.4	4701.8	411.8
28°	14640.4	14541.0	14047.1	13248.8	12114.3	10768.5	9279.0	7707.5	6153.4	4664.0	392.9
29°	14850.2	14714.5	14222.3	13367.1	12171.1	10792.1	9244.3	7639.7	6057.2	4547.2	370.8
30°	14834.5	14665.6	14149.7	13259.8	12002.3	10598.1	9050.3	7395.1	5839.4	4373.7	345.5
31°	14578.9	14389.5	13813.6	12896.9	11653.6	10232.0	8684.2	7067.0	5541.2	4148.0	320.3
32°	14059.8	13819.9	13258.2	12344.7	11117.2	9684.5	8152.5	6560.5	5094.7	3818.3	293.5
33°	13214.1	12972.7	12369.9	11513.2	10391.4	8990.3	7447.2	6016.1	4586.7	3425.4	271.4
34°	12155.4	11934.5	11415.4	10552.3	9476.3	8111.5	6636.2	5263.5	4059.7	3035.7	247.7
35°	10943.6	10591.8	10121.6	9438.4	8389.2	7016.5	5760.5	4563.0	3516.9	2627.0	222.5
36°	9304.3	9367.4	8868.8	8032.6	7163.2	6087.1	4881.7	3804.1	2941.0	2238.9	200.4
37°	7851.1	7751.7	7434.6	6787.7	6030.3	4962.2	4091.2	3225.0	2474.0	1893.4	176.7
38°	6333.3	6355.4	6044.5	5547.5	4796.5	4080.2	3292.9	2649.1	2070.1	1610.9	154.6
39°	4957.4	4940.1	4856.5	4395.7	3715.7	3245.5	2668.1	2196.3	1724.5	1358.5	131.0
40°	3734.6	3763.0	3567.4	3289.7	2893.7	2507.1	2125.3	1751.4	1426.3	1145.5	102.6
42.5°	1816.0	1860.2	1730.8	1659.8	1484.7	1333.2	1125.0	918.3	781.0	675.3	45.8
45°	885.1	859.9	848.9	814.1	773.1	691.1	612.2	525.4	459.1	396.0	28.4
47.5°	452.8	440.2	440.2	426.0	411.8	385.0	345.5	317.1	285.6	246.1	11.0
50°	135.7	134.1	132.5	134.1	129.4	134.1	137.3	138.8	126.2	124.6	3.2
52.5°	53.6	55.2	53.6	58.4	58.4	56.8	58.4	56.8	55.2	48.9	0.0
55°	15.8	15.8	15.8	15.8	15.8	15.8	17.4	18.9	17.4	18.9	0.0
57.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	63.1	55.2	45.8	37.9	34.7	33.1
5°	67.8	50.5	34.7	26.8	23.7	22.1
7.5°	72.6	45.8	26.8	18.9	14.2	12.6
10°	75.7	39.4	20.5	11.0	7.9	7.9
12.5°	75.7	31.6	14.2	6.3	4.7	4.7
15°	74.2	26.8	9.5	4.7	3.2	3.2
17.5°	72.6	20.5	6.3	3.2	1.6	3.2
20°	67.8	15.8	3.2	1.6	1.6	1.6
21°	66.3	14.2	3.2	1.6	1.6	1.6
22°	63.1	12.6	1.6	0.0	1.6	1.6
23°	60.0	9.5	1.6	0.0	0.0	0.0
24°	55.2	7.9	1.6	0.0	0.0	0.0
25°	52.1	7.9	1.6	0.0	0.0	0.0
26°	48.9	4.7	0.0	0.0	0.0	0.0
27°	44.2	3.2	0.0	0.0	0.0	0.0
28°	41.0	3.2	0.0	0.0	0.0	0.0
29°	36.3	3.2	0.0	0.0	0.0	0.0
30°	31.6	3.2	0.0	0.0	0.0	0.0
31°	25.2	1.6	0.0	0.0	0.0	0.0
32°	20.5	1.6	0.0	0.0	0.0	0.0
33°	14.2	1.6	0.0	0.0	0.0	0.0
34°	9.5	1.6	0.0	0.0	0.0	0.0
35°	7.9	1.6	0.0	0.0	0.0	0.0
36°	4.7	1.6	0.0	0.0	0.0	1.6
37°	4.7	1.6	0.0	0.0	0.0	1.6
38°	3.2	1.6	0.0	0.0	0.0	1.6
39°	1.6	1.6	0.0	0.0	0.0	1.6
40°	1.6	1.6	0.0	0.0	0.0	1.6
42.5°	0.0	1.6	0.0	0.0	1.6	3.2
45°	0.0	1.6	0.0	0.0	1.6	3.2
47.5°	0.0	1.6	0.0	0.0	3.2	3.2
50°	0.0	1.6	1.6	1.6	3.2	4.7
52.5°	0.0	3.2	1.6	3.2	4.7	6.3
55°	1.6	3.2	3.2	4.7	6.3	7.9
57.5°	1.6	4.7	4.7	6.3	7.9	7.9
60°	3.2	4.7	6.3	6.3	9.5	9.5
62.5°	3.2	6.3	6.3	6.3	9.5	9.5
65°	3.2	6.3	6.3	7.9	9.5	9.5
67.5°	3.2	6.3	6.3	6.3	7.9	9.5
70°	3.2	6.3	4.7	6.3	7.9	7.9
72.5°	3.2	6.3	4.7	4.7	6.3	7.9
75°	3.2	6.3	4.7	4.7	6.3	6.3
77.5°	3.2	4.7	4.7	3.2	4.7	4.7
80°	3.2	4.7	3.2	3.2	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.2	4.7	3.2	1.6	3.2	3.2
85°	3.2	4.7	3.2	1.6	1.6	1.6
87.5°	3.2	4.7	1.6	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)