

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: P1319405

Luminaire Tested: LDSQA3D17R409835DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R409835DE010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

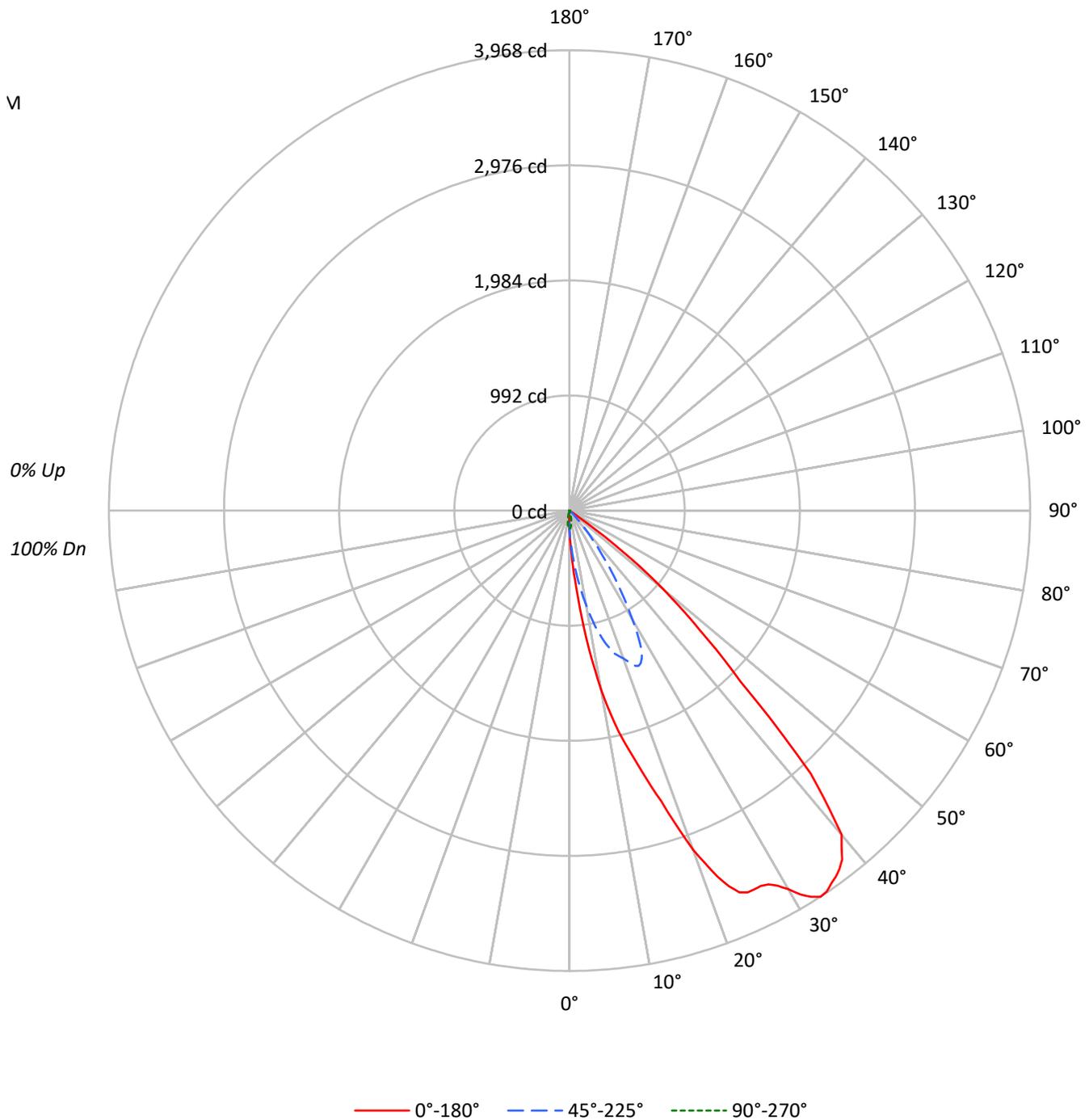
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1332.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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





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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26832	26832	26832	26832	26832
5°	113876	77623	23546	4236	2126
10°	273739	144380	14585	437	0
15°	402882	209750	6116	0	0
20°	569474	248650	2254	0	0
25°	689759	275995	0	0	0
30°	748928	215888	0	0	0
35°	825821	126378	0	0	0
40°	819629	51304	0	0	0
45°	507627	14930	0	0	0
50°	282667	322	0	0	0
55°	27624	0	0	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	604	1259	0	0
75°	0	799	1664	0	0
80°	0	1190	2479	0	0
85°	0	2371	4940	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 510014 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	2.2
10°-20°	171.7	12.9
20°-30°	391.9	29.4
30°-40°	462.8	34.7
40°-50°	247.2	18.6
50°-60°	26.9	2.0
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	0.9	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°	592.8	44.5
0°-40°	1055.5	79.2
0°-60°	1329.6	99.8
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	156	156	156	156	156	
5°	659	449	136	24	12	93
15°	2260	1176	34	0	0	671
25°	3630	1452	0	0	0	1648
35°	3928	601	0	0	0	2426
45°	2084	61	0	0	0	1718
55°	92	0	0	0	0	258
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
2.5°	363.1	355.7	360.6	350.8	350.8	328.8	330.0	311.6	284.6	217.1	154.6
5°	658.7	688.2	664.9	634.2	617.0	594.9	565.5	534.8	449.0	271.1	136.2
7.5°	1102.8	1100.3	1061.1	1028.0	989.9	931.1	875.9	801.0	639.1	310.4	112.9
10°	1565.3	1556.7	1512.5	1484.3	1411.9	1327.3	1214.4	1094.2	825.6	323.8	83.4
12.5°	1950.4	1939.4	1902.6	1854.8	1775.0	1668.3	1546.9	1388.6	1021.8	309.1	54.0
15°	2259.6	2257.1	2221.5	2156.5	2073.1	1968.8	1831.5	1641.3	1176.4	271.1	34.3
17.5°	2626.4	2641.1	2577.3	2507.4	2387.2	2241.2	2073.1	1856.0	1290.5	224.5	22.1
20°	3107.2	3086.4	3027.5	2925.7	2810.4	2634.9	2397.0	2086.6	1356.7	174.2	12.3
21°	3254.4	3245.8	3184.5	3090.0	2962.5	2784.6	2539.3	2204.4	1387.4	155.8	9.8
22°	3404.1	3389.4	3341.5	3249.5	3129.3	2928.1	2658.3	2325.8	1426.6	136.2	6.1
23°	3515.7	3509.6	3472.8	3382.0	3258.1	3063.1	2787.1	2438.7	1453.6	117.8	3.7
24°	3601.6	3594.2	3557.4	3488.7	3382.0	3178.4	2917.1	2560.1	1464.7	101.8	1.2
25°	3629.8	3633.5	3611.4	3557.4	3467.9	3264.2	3014.0	2655.8	1452.4	87.1	0.0
26°	3631.0	3642.1	3626.1	3595.4	3521.8	3332.9	3104.8	2712.2	1420.5	73.6	0.0
27°	3631.0	3642.1	3626.1	3602.8	3530.4	3372.2	3153.8	2718.4	1371.4	62.6	0.0
28°	3648.2	3654.3	3633.5	3605.3	3526.8	3384.5	3167.3	2681.6	1292.9	54.0	0.0
29°	3696.0	3689.9	3655.6	3617.5	3523.1	3384.5	3126.8	2611.6	1194.8	45.4	0.0
30°	3766.0	3766.0	3712.0	3651.9	3540.2	3383.2	3061.8	2485.3	1085.6	36.8	0.0
31°	3860.4	3851.8	3797.9	3708.3	3577.0	3383.2	2966.2	2345.4	985.0	31.9	0.0
32°	3924.2	3919.3	3867.8	3762.3	3637.2	3383.2	2863.1	2190.9	875.9	25.8	0.0
33°	3968.4	3958.5	3899.7	3790.5	3674.0	3366.1	2747.8	2025.3	777.7	20.9	0.0
34°	3962.2	3959.8	3898.4	3785.6	3666.6	3294.9	2614.1	1841.3	687.0	17.2	0.0
35°	3927.9	3927.9	3853.1	3736.5	3613.8	3190.6	2481.6	1684.3	601.1	12.3	0.0
36°	3902.1	3892.3	3807.7	3677.6	3525.5	3026.3	2285.3	1526.0	509.1	9.8	0.0
37°	3864.1	3845.7	3751.2	3611.4	3400.4	2848.4	2079.3	1384.9	430.6	6.1	0.0
38°	3815.0	3786.8	3671.5	3534.1	3263.0	2643.5	1869.5	1226.7	358.2	3.7	0.0
39°	3725.5	3702.2	3583.2	3434.8	3098.6	2427.6	1665.9	1078.3	289.5	1.2	0.0
40°	3645.7	3605.3	3470.3	3299.8	2906.0	2183.5	1463.4	932.3	228.2	0.0	0.0
42.5°	3074.1	3031.2	3000.5	2831.2	2314.8	1567.7	1021.8	597.4	119.0	0.0	0.0
45°	2084.2	2094.0	1998.3	1884.2	1527.2	1021.8	639.1	332.4	61.3	0.0	0.0
47.5°	1519.9	1494.1	1364.1	1148.2	895.5	597.4	333.7	160.7	24.5	0.0	0.0
50°	1055.0	1005.9	888.1	726.2	487.0	284.6	147.2	74.8	1.2	0.0	0.0
52.5°	572.9	538.5	456.3	331.2	202.4	109.2	58.9	30.7	0.0	0.0	0.0
55°	92.0	63.8	66.2	56.4	44.2	31.9	18.4	3.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	1.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
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):

	112.5°	135°	157.5°	180°
0°	155.8	155.8	155.8	155.8
2.5°	104.3	71.1	54.0	46.6
5°	60.1	24.5	13.5	12.3
7.5°	29.4	8.6	4.9	4.9
10°	12.3	2.5	0.0	0.0
12.5°	3.7	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.2	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)