

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: IRiS

Report Number: P1313225

Luminaire Tested: P3SQAS09R259730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R259730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

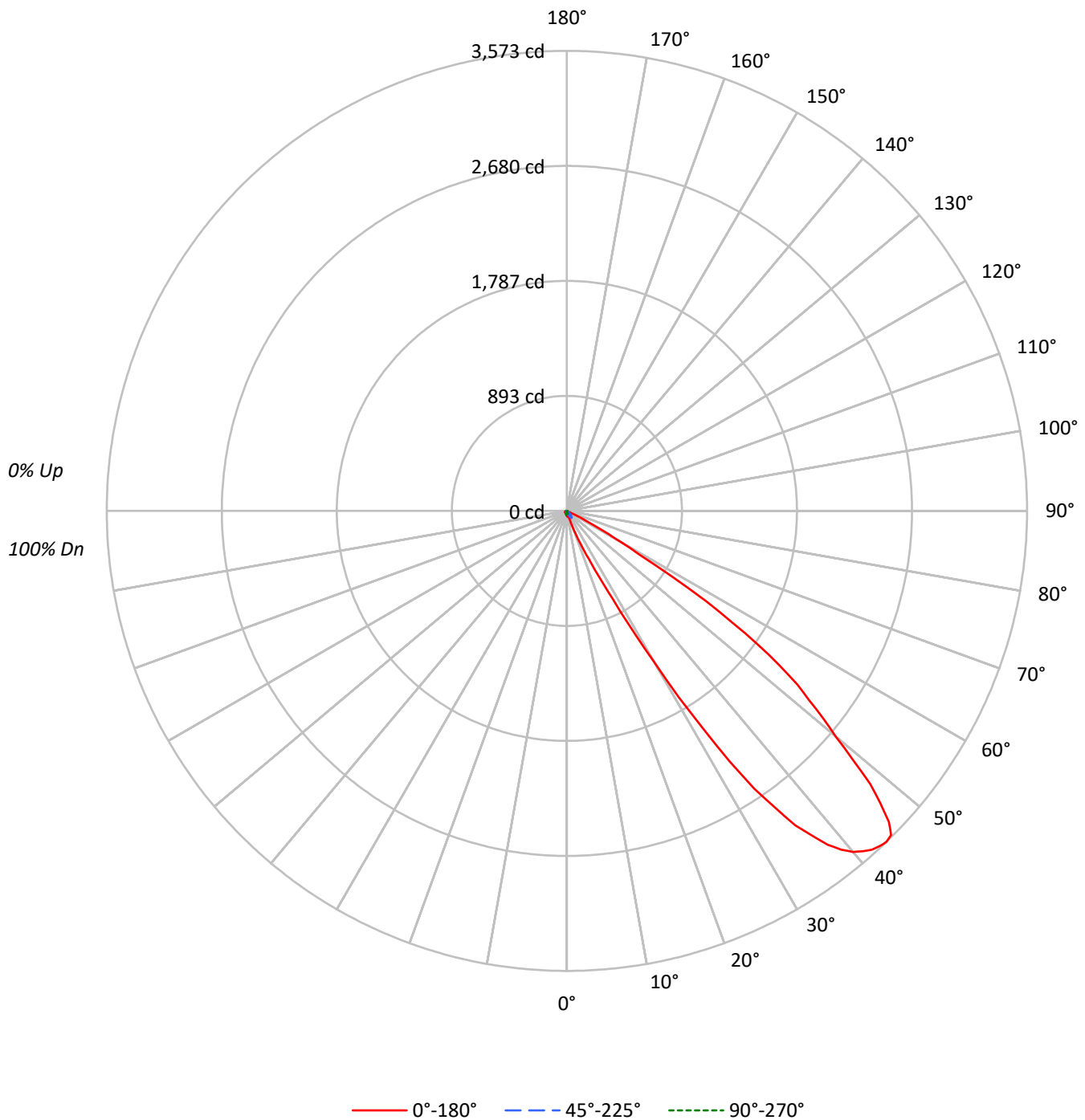
Lumens per Lamp: N/A
Luminaire Lumens: 745.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6544	6544	6544	6544	6544
5°	7486	7140	6345	5670	5549
10°	7450	6768	5386	4704	4704
15°	8291	5848	4208	3976	4208
20°	29324	5773	3244	3372	3720
25°	84334	7354	2622	3116	3611
30°	269085	11335	2088	3003	3659
35°	589380	13372	1787	2901	3721
40°	777475	12095	1484	2945	3979
45°	867023	8452	1437	3191	4311
50°	729817	4394	1393	3349	4742
55°	545664	1772	1381	3753	5315
60°	168916	448	1343	4064	5856
65°	14426	0	1589	4279	6398
70°	1007	352	1662	4935	7251
75°	865	466	2196	5257	8318
80°	694	694	3273	5852	9720
85°	1383	1383	5138	6521	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 867023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	8.8	1.2
20°-30°	41.2	5.5
30°-40°	198.4	26.6
40°-50°	311.1	41.8
50°-60°	159.5	21.4
60°-70°	15.0	2.0
70°-80°	5.1	0.7
80°-90°	2.5	0.3
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°	53.4	7.2
0°-40°	251.8	33.8
0°-60°	722.4	97.0
0°-90°	745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	745.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	43	41	37	33	32	4
15°	46	33	24	22	24	20
25°	444	39	14	16	19	275
35°	2803	64	8	14	18	1702
45°	3560	35	6	13	18	2605
55°	1817	6	5	12	18	1513
65°	35	0	4	10	16	111
75°	1	1	3	8	12	2
85°	1	1	3	3	5	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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	41.3	41.3	41.3	41.3	41.3	41.3	40.6	40.6	41.3	40.6	40.6
5°	43.3	43.3	43.3	43.3	43.3	43.3	43.3	42.6	42.6	42.6	41.3
7.5°	43.9	43.3	43.3	43.3	43.3	43.3	43.3	43.3	42.6	42.6	40.6
10°	42.6	42.6	42.6	42.6	42.0	42.0	42.0	41.3	41.3	41.3	38.7
12.5°	42.6	42.6	42.6	42.6	42.0	42.0	41.3	41.3	40.6	40.0	35.4
15°	46.5	46.5	46.5	45.9	45.2	44.6	43.9	43.3	42.6	41.3	32.8
17.5°	68.2	66.2	65.6	62.9	59.7	56.4	53.8	51.1	48.5	46.5	31.5
20°	160.0	159.3	156.0	148.2	139.6	129.8	120.0	108.8	93.1	82.6	31.5
22.5°	277.3	273.4	267.5	261.6	246.5	228.8	210.4	189.5	169.1	147.5	33.4
25°	443.8	453.0	433.3	417.6	391.4	359.3	324.5	295.7	259.0	224.9	38.7
27.5°	771.6	777.5	738.8	687.7	626.7	559.2	493.7	444.5	382.9	326.5	48.5
30°	1353.1	1359.0	1294.1	1185.3	1059.4	948.6	798.5	666.7	545.4	451.7	57.0
31°	1688.8	1642.9	1567.5	1461.9	1302.6	1135.5	955.2	795.9	642.5	519.2	59.7
32°	1980.5	1976.6	1888.7	1728.8	1568.8	1362.3	1138.7	930.9	742.8	587.4	61.6
33°	2324.7	2298.5	2174.6	2023.8	1812.0	1604.2	1315.8	1078.4	845.7	663.4	62.9
34°	2600.7	2529.9	2478.8	2306.3	2082.8	1817.9	1509.2	1234.5	974.2	736.9	63.6
35°	2803.3	2788.2	2688.5	2527.9	2300.4	2029.7	1717.6	1396.4	1081.7	822.1	63.6
36°	3017.6	2971.1	2874.1	2728.5	2506.9	2227.0	1876.9	1536.7	1206.9	898.8	62.9
37°	3152.0	3124.5	3028.1	2878.0	2661.0	2393.5	2055.3	1684.8	1306.6	975.5	61.6
38°	3290.4	3234.6	3139.6	2996.0	2782.9	2531.9	2184.4	1798.9	1398.4	1043.0	59.7
39°	3386.1	3328.4	3231.4	3088.4	2880.0	2630.9	2286.7	1895.9	1478.3	1093.5	57.0
40°	3458.2	3402.5	3304.1	3157.3	2951.4	2708.9	2371.9	1981.8	1545.2	1137.4	53.8
41°	3502.8	3451.0	3353.3	3207.1	3000.6	2753.4	2427.6	2037.6	1590.4	1166.9	50.5
42°	3540.1	3487.0	3387.4	3237.9	3030.8	2791.5	2461.7	2073.0	1621.3	1182.0	47.9
43°	3561.1	3508.0	3411.0	3258.2	3049.1	2809.2	2480.1	2089.3	1631.7	1180.0	43.3
44°	3572.9	3517.9	3420.2	3267.4	3057.0	2813.8	2481.4	2086.1	1624.5	1164.3	39.3
45°	3559.8	3505.4	3411.0	3258.2	3043.2	2799.3	2468.3	2068.4	1597.0	1133.5	34.7
46°	3474.6	3432.6	3346.1	3205.8	2999.9	2762.6	2434.8	2034.3	1554.4	1095.5	29.5
47°	3324.5	3291.0	3207.1	3102.9	2916.7	2695.1	2373.2	1969.4	1494.7	1038.4	23.6
48°	3167.8	3118.6	3040.6	2933.7	2776.4	2573.8	2271.6	1874.3	1404.3	963.7	21.0
49°	2936.4	2907.5	2838.7	2719.4	2588.9	2410.6	2128.0	1752.4	1293.5	882.4	18.4
50°	2723.9	2704.3	2607.9	2520.1	2381.7	2215.2	1933.3	1591.8	1155.8	781.5	16.4
51°	2558.1	2534.5	2465.0	2355.5	2208.0	2014.6	1749.1	1383.3	997.8	661.5	13.1
52°	2385.0	2371.9	2310.3	2197.5	2052.6	1859.9	1570.1	1206.3	844.4	559.2	10.5
53°	2243.4	2224.4	2149.0	2048.7	1892.0	1692.7	1376.1	1041.7	715.2	470.1	9.2
54°	2036.9	2029.0	1980.5	1875.6	1705.8	1488.8	1200.4	877.2	596.6	398.6	7.9
55°	1817.3	1791.1	1741.9	1658.6	1502.6	1300.0	997.1	727.0	482.5	335.7	5.9
56°	1549.8	1548.5	1460.6	1391.1	1252.8	1037.8	796.5	567.7	392.0	279.9	5.2
57°	1294.1	1252.8	1168.2	1099.4	950.6	787.4	591.3	425.5	306.8	226.8	3.9
58°	957.2	935.5	913.2	812.3	674.6	557.9	422.2	298.9	226.8	173.1	2.6
59°	649.7	649.0	622.8	546.1	466.8	347.5	263.5	203.2	156.0	127.2	2.0
60°	490.4	478.6	426.1	375.6	293.7	219.6	156.0	120.0	97.0	81.9	1.3
62.5°	171.8	178.3	156.7	129.8	99.0	81.3	62.3	50.5	41.3	33.4	0.0
65°	35.4	38.7	33.4	31.5	24.9	21.6	19.0	16.4	13.8	11.8	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	4.6	3.9	3.9	3.9	3.3	3.3	3.3	3.3	2.6	2.6	0.7
70°	2.0	2.0	2.0	2.0	2.0	2.0	1.3	1.3	1.3	1.3	0.7
72.5°	2.0	2.0	2.0	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3
85°	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	40.0	38.7	36.7	36.1	35.4	35.4
5°	39.3	36.7	34.7	32.8	32.1	32.1
7.5°	37.4	34.1	31.5	30.2	29.5	28.8
10°	35.4	30.8	28.2	26.9	26.9	26.9
12.5°	31.5	27.5	24.9	24.3	24.9	24.9
15°	28.2	23.6	22.3	22.3	22.9	23.6
17.5°	24.3	21.0	19.7	20.3	21.0	21.6
20°	21.6	17.7	17.7	18.4	20.3	20.3
22.5°	19.0	15.7	15.7	17.7	19.0	19.7
25°	17.0	13.8	14.4	16.4	18.4	19.0
27.5°	14.4	11.8	13.1	15.7	17.7	18.4
30°	12.5	10.5	12.5	15.1	17.0	18.4
31°	11.8	9.8	12.5	14.4	17.0	18.4
32°	10.5	9.8	11.8	14.4	17.0	17.7
33°	9.8	9.2	11.8	14.4	17.0	17.7
34°	9.2	8.5	11.1	14.4	17.0	17.7
35°	7.9	8.5	11.1	13.8	16.4	17.7
36°	7.2	7.9	11.1	13.8	16.4	17.7
37°	6.6	7.9	10.5	13.8	16.4	17.7
38°	5.9	7.2	10.5	13.8	16.4	17.7
39°	5.2	7.2	9.8	13.8	16.4	17.7
40°	4.6	6.6	9.8	13.1	16.4	17.7
41°	4.6	6.6	9.8	13.1	16.4	17.7
42°	3.9	6.6	9.8	13.1	16.4	17.7
43°	3.3	5.9	9.8	13.1	16.4	17.7
44°	2.6	5.9	9.2	13.1	16.4	17.7
45°	2.6	5.9	9.2	13.1	16.4	17.7
46°	2.0	5.2	9.2	13.1	16.4	17.7
47°	1.3	5.2	9.2	12.5	16.4	17.7
48°	1.3	5.2	9.2	12.5	16.4	17.7
49°	1.3	5.2	8.5	12.5	16.4	17.7
50°	1.3	5.2	8.5	12.5	16.4	17.7
51°	0.7	4.6	8.5	12.5	16.4	17.7
52°	0.7	4.6	8.5	12.5	16.4	18.4
53°	0.7	4.6	8.5	12.5	16.4	17.7
54°	0.7	4.6	7.9	12.5	16.4	17.7
55°	0.7	4.6	7.9	12.5	16.4	17.7
56°	0.7	3.9	7.9	11.8	16.4	17.7
57°	1.3	3.9	7.9	11.8	16.4	17.0
58°	1.3	3.9	7.9	11.8	15.7	17.0
59°	1.3	3.9	7.9	11.8	15.7	17.0
60°	1.3	3.9	7.2	11.8	15.7	17.0
62.5°	1.3	3.9	7.2	11.1	15.1	16.4
65°	1.3	3.9	6.6	10.5	15.1	15.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.3	3.3	6.6	9.8	14.4	15.1
70°	2.0	3.3	5.9	9.8	13.8	14.4
72.5°	2.0	3.3	5.9	8.5	12.5	13.8
75°	2.0	3.3	5.2	7.9	11.8	12.5
77.5°	2.0	3.3	4.6	7.2	10.5	11.1
80°	2.6	3.3	3.9	5.9	9.2	9.8
82.5°	2.6	3.3	3.3	4.6	7.2	7.9
85°	2.0	2.6	2.6	3.3	4.6	5.2
87.5°	2.0	2.6	2.0	1.3	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)