

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: P1312251

Luminaire Tested: P3SQAS09R259727DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312251
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: P3SQAS09R259727DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

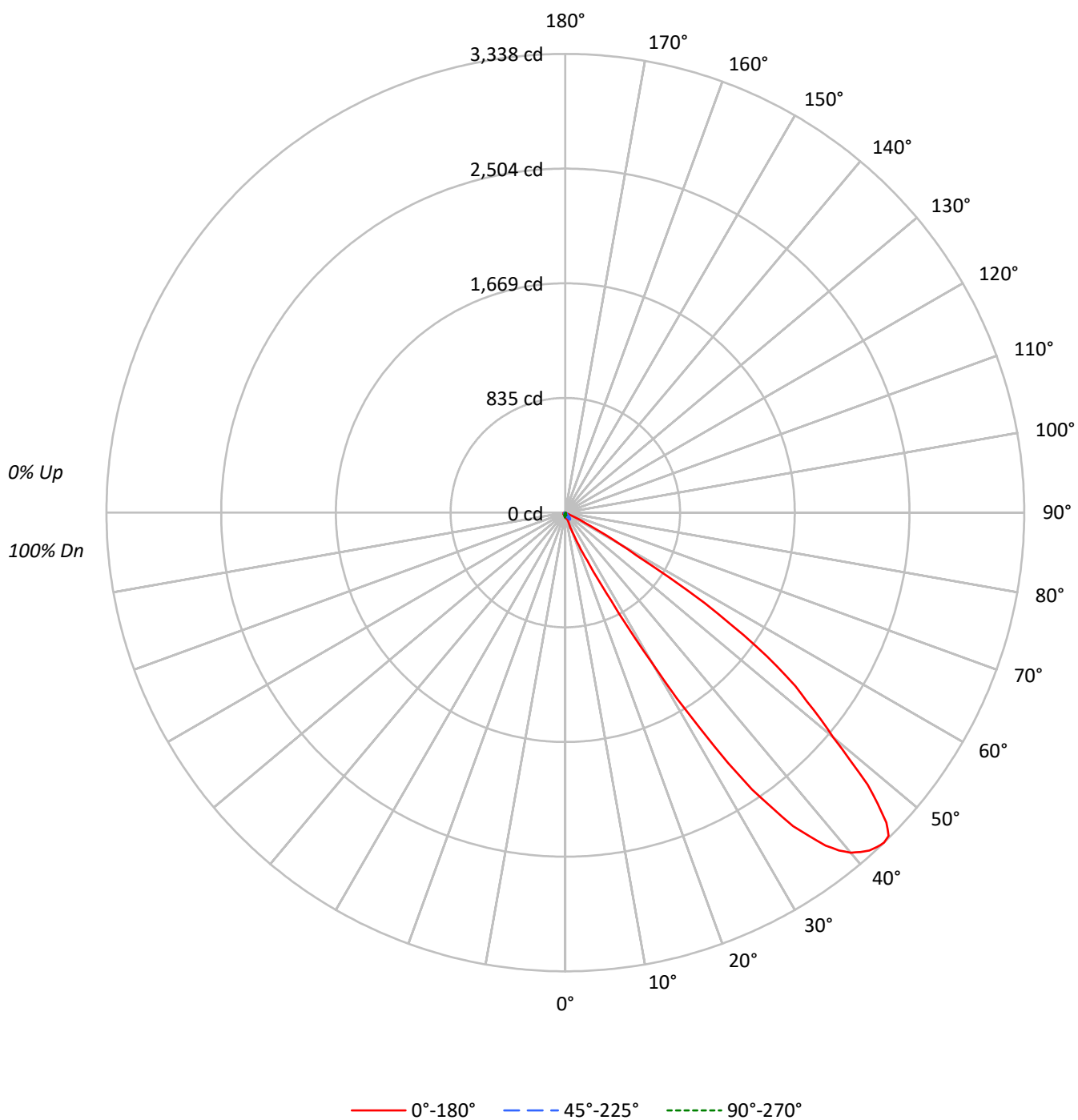
Lumens per Lamp: N/A
Luminaire Lumens: 695.9 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	6114	6114	6114	6114	6114
5°	6984	6673	5930	5290	5186
10°	6960	6313	5037	4389	4389
15°	7756	5456	3923	3709	3923
20°	27381	5388	3024	3134	3482
25°	78785	6860	2451	2907	3382
30°	251386	10600	1949	2804	3401
35°	550611	12489	1682	2712	3469
40°	726328	11286	1371	2743	3710
45°	810006	7916	1340	2971	4019
50°	681830	4099	1313	3108	4421
55°	509753	1651	1291	3483	4954
60°	157790	413	1274	3789	5477
65°	13489	0	1508	3994	5990
70°	906	302	1561	4633	6798
75°	799	399	2063	4858	7719
80°	595	595	3075	5455	9124
85°	1186	1186	4742	6126	9683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 810006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	8.2	1.2
20°-30°	38.5	5.5
30°-40°	185.4	26.6
40°-50°	290.6	41.8
50°-60°	149.0	21.4
60°-70°	14.0	2.0
70°-80°	4.7	0.7
80°-90°	2.4	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°	49.9	7.2
0°-40°	235.3	33.8
0°-60°	674.8	97.0
0°-90°	695.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	695.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	40	39	34	31	30	4
15°	44	31	22	21	22	18
25°	415	36	13	15	18	257
35°	2619	59	8	13	16	1590
45°	3326	32	6	12	16	2433
55°	1698	6	4	12	16	1413
65°	33	0	4	10	15	104
75°	1	1	3	7	12	1
85°	1	1	2	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°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.0	38.0	38.6	38.0	38.0
5°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	39.8	39.8	39.8	38.6
7.5°	41.0	40.4	40.4	40.4	40.4	40.4	40.4	40.4	39.8	39.8	38.0
10°	39.8	39.8	39.8	39.8	39.2	39.2	39.2	38.6	38.6	38.6	36.1
12.5°	39.8	39.8	39.8	39.8	39.2	39.2	38.6	38.6	38.0	37.4	33.1
15°	43.5	43.5	43.5	42.9	42.3	41.6	41.0	40.4	39.8	38.6	30.6
17.5°	63.7	61.9	61.2	58.8	55.7	52.7	50.2	47.8	45.3	43.5	29.4
20°	149.4	148.8	145.8	138.4	130.5	121.3	112.1	101.7	87.0	77.2	29.4
22.5°	259.1	255.4	249.9	244.4	230.3	213.7	196.6	177.0	158.0	137.8	31.2
25°	414.6	423.2	404.8	390.1	365.6	335.6	303.2	276.2	241.9	210.1	36.1
27.5°	720.9	726.4	690.2	642.5	585.5	522.4	461.2	415.3	357.7	305.0	45.3
30°	1264.1	1269.6	1209.0	1107.3	989.7	886.2	746.0	622.9	509.6	422.0	53.3
31°	1577.7	1534.8	1464.4	1365.8	1217.0	1060.8	892.4	743.5	600.2	485.1	55.7
32°	1850.3	1846.6	1764.5	1615.1	1465.6	1272.7	1063.8	869.7	693.9	548.8	57.6
33°	2171.8	2147.3	2031.5	1890.7	1692.8	1498.7	1229.2	1007.5	790.1	619.8	58.8
34°	2429.6	2363.5	2315.7	2154.6	1945.8	1698.4	1409.9	1153.3	910.1	688.4	59.4
35°	2618.9	2604.8	2511.7	2361.7	2149.1	1896.2	1604.7	1304.5	1010.6	768.0	59.4
36°	2819.2	2775.7	2685.0	2549.1	2342.1	2080.5	1753.5	1435.6	1127.5	839.7	58.8
37°	2944.7	2919.0	2829.0	2688.7	2486.0	2236.1	1920.1	1574.0	1220.6	911.3	57.6
38°	3074.0	3021.9	2933.1	2799.0	2599.9	2365.3	2040.7	1680.6	1306.4	974.4	55.7
39°	3163.4	3109.5	3018.8	2885.3	2690.6	2457.8	2136.3	1771.2	1381.1	1021.6	53.3
40°	3230.7	3178.7	3086.8	2949.6	2757.3	2530.7	2215.9	1851.5	1443.6	1062.6	50.2
41°	3272.4	3224.0	3132.8	2996.2	2803.2	2572.3	2268.0	1903.5	1485.8	1090.2	47.2
42°	3307.3	3257.7	3164.6	3025.0	2831.4	2607.9	2299.8	1936.6	1514.6	1104.3	44.7
43°	3326.9	3277.3	3186.6	3043.9	2848.6	2624.4	2316.9	1951.9	1524.4	1102.4	40.4
44°	3337.9	3286.5	3195.2	3052.5	2855.9	2628.7	2318.2	1948.9	1517.7	1087.7	36.7
45°	3325.7	3274.8	3186.6	3043.9	2843.1	2615.2	2305.9	1932.3	1492.0	1058.9	32.5
46°	3246.1	3206.9	3126.0	2994.9	2802.6	2580.9	2274.7	1900.5	1452.2	1023.4	27.6
47°	3105.8	3074.6	2996.2	2898.8	2724.9	2517.8	2217.1	1839.8	1396.4	970.1	22.0
48°	2959.4	2913.5	2840.6	2740.8	2593.8	2404.5	2122.2	1751.0	1311.9	900.3	19.6
49°	2743.2	2716.3	2652.0	2540.5	2418.6	2252.0	1988.1	1637.1	1208.4	824.4	17.1
50°	2544.8	2526.4	2436.4	2354.3	2225.1	2069.5	1806.2	1487.1	1079.8	730.1	15.3
51°	2389.8	2367.8	2302.9	2200.6	2062.8	1882.1	1634.1	1292.3	932.2	618.0	12.2
52°	2228.1	2215.9	2158.3	2053.0	1917.6	1737.6	1466.9	1126.9	788.9	522.4	9.8
53°	2095.9	2078.1	2007.7	1913.9	1767.6	1581.4	1285.6	973.2	668.2	439.1	8.6
54°	1902.9	1895.6	1850.3	1752.3	1593.6	1390.9	1121.4	819.5	557.3	372.4	7.3
55°	1697.7	1673.3	1627.3	1549.5	1403.8	1214.5	931.6	679.2	450.8	313.6	5.5
56°	1447.9	1446.6	1364.6	1299.6	1170.4	969.5	744.1	530.4	366.3	261.5	4.9
57°	1209.0	1170.4	1091.4	1027.1	888.1	735.6	552.4	397.5	286.6	211.9	3.7
58°	894.2	874.0	853.2	758.8	630.2	521.2	394.4	279.3	211.9	161.7	2.4
59°	607.0	606.3	581.8	510.2	436.1	324.6	246.2	189.9	145.8	118.8	1.8
60°	458.1	447.1	398.1	350.9	274.4	205.2	145.8	112.1	90.6	76.6	1.2
62.5°	160.5	166.6	146.4	121.3	92.5	75.9	58.2	47.2	38.6	31.2	0.0
65°	33.1	36.1	31.2	29.4	23.3	20.2	17.8	15.3	12.9	11.0	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°	4.3	3.7	3.7	3.7	3.1	3.1	3.1	3.1	2.4	2.4	0.6
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	0.6
72.5°	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	37.4	36.1	34.3	33.7	33.1	33.1
5°	36.7	34.3	32.5	30.6	30.0	30.0
7.5°	34.9	31.8	29.4	28.2	27.6	26.9
10°	33.1	28.8	26.3	25.1	25.1	25.1
12.5°	29.4	25.7	23.3	22.7	23.3	23.3
15°	26.3	22.0	20.8	20.8	21.4	22.0
17.5°	22.7	19.6	18.4	19.0	19.6	20.2
20°	20.2	16.5	16.5	17.1	19.0	19.0
22.5°	17.8	14.7	14.7	16.5	17.8	18.4
25°	15.9	12.9	13.5	15.3	17.1	17.8
27.5°	13.5	11.0	12.2	14.7	16.5	17.1
30°	11.6	9.8	11.6	14.1	15.9	17.1
31°	11.0	9.2	11.6	13.5	15.9	17.1
32°	9.8	9.2	11.0	13.5	15.9	16.5
33°	9.2	8.6	11.0	13.5	15.9	16.5
34°	8.6	8.0	10.4	13.5	15.9	16.5
35°	7.3	8.0	10.4	12.9	15.3	16.5
36°	6.7	7.3	10.4	12.9	15.3	16.5
37°	6.1	7.3	9.8	12.9	15.3	16.5
38°	5.5	6.7	9.8	12.9	15.3	16.5
39°	4.9	6.7	9.2	12.9	15.3	16.5
40°	4.3	6.1	9.2	12.2	15.3	16.5
41°	4.3	6.1	9.2	12.2	15.3	16.5
42°	3.7	6.1	9.2	12.2	15.3	16.5
43°	3.1	5.5	9.2	12.2	15.3	16.5
44°	2.4	5.5	8.6	12.2	15.3	16.5
45°	2.4	5.5	8.6	12.2	15.3	16.5
46°	1.8	4.9	8.6	12.2	15.3	16.5
47°	1.2	4.9	8.6	11.6	15.3	16.5
48°	1.2	4.9	8.6	11.6	15.3	16.5
49°	1.2	4.9	8.0	11.6	15.3	16.5
50°	1.2	4.9	8.0	11.6	15.3	16.5
51°	0.6	4.3	8.0	11.6	15.3	16.5
52°	0.6	4.3	8.0	11.6	15.3	17.1
53°	0.6	4.3	8.0	11.6	15.3	16.5
54°	0.6	4.3	7.3	11.6	15.3	16.5
55°	0.6	4.3	7.3	11.6	15.3	16.5
56°	0.6	3.7	7.3	11.0	15.3	16.5
57°	1.2	3.7	7.3	11.0	15.3	15.9
58°	1.2	3.7	7.3	11.0	14.7	15.9
59°	1.2	3.7	7.3	11.0	14.7	15.9
60°	1.2	3.7	6.7	11.0	14.7	15.9
62.5°	1.2	3.7	6.7	10.4	14.1	15.3
65°	1.2	3.7	6.1	9.8	14.1	14.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.2	3.1	6.1	9.2	13.5	14.1
70°	1.8	3.1	5.5	9.2	12.9	13.5
72.5°	1.8	3.1	5.5	8.0	11.6	12.9
75°	1.8	3.1	4.9	7.3	11.0	11.6
77.5°	1.8	3.1	4.3	6.7	9.8	10.4
80°	2.4	3.1	3.7	5.5	8.6	9.2
82.5°	2.4	3.1	3.1	4.3	6.7	7.3
85°	1.8	2.4	2.4	3.1	4.3	4.9
87.5°	1.8	2.4	1.8	1.2	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)