

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: P1312286

Luminaire Tested: P3SQAS09R359727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R359727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

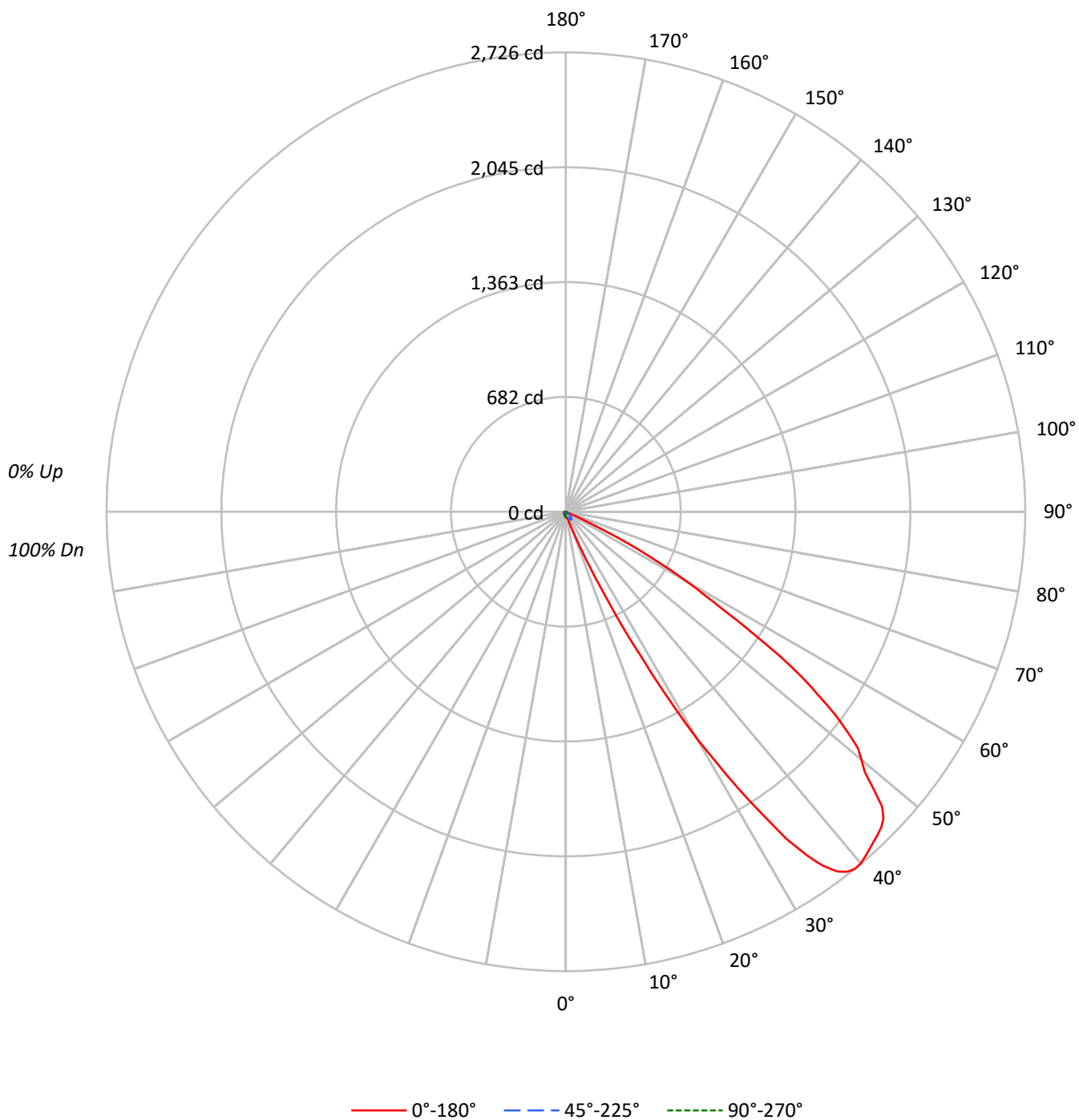
Lumens per Lamp: N/A
Luminaire Lumens: 679.0 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5391	5391	5391	5391	5391
5°	5826	5722	5290	4772	4668
10°	6103	5579	4722	4075	4075
15°	8737	5456	3833	3495	3602
20°	21901	5846	3024	3024	3372
25°	101683	7449	2337	2793	3135
30°	309117	10122	1830	2565	3162
35°	522438	11732	1556	2439	3091
40°	612389	11578	1237	2473	3305
45°	644921	8208	1047	2679	3580
50°	613883	4930	991	2786	3939
55°	514407	2012	1111	3123	4594
60°	287991	413	1274	3582	5063
65°	49717	245	1263	3994	5746
70°	906	302	1561	4330	6496
75°	799	399	2063	4924	7320
80°	595	595	2479	5455	8529
85°	0	1186	4940	6126	9683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 649487 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	8.0	1.2
20°-30°	41.7	6.1
30°-40°	179.9	26.5
40°-50°	256.7	37.8
50°-60°	159.0	23.4
60°-70°	24.2	3.6
70°-80°	4.5	0.7
80°-90°	2.3	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°	52.5	7.7
0°-40°	232.4	34.2
0°-60°	648.0	95.4
0°-90°	679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	34	33	31	28	27	3
15°	49	31	22	20	20	18
25°	535	39	12	15	16	320
35°	2485	56	7	12	15	1492
45°	2648	34	4	11	15	2000
55°	1713	7	4	10	15	1459
65°	122	1	3	10	14	249
75°	1	1	3	7	11	1
85°	0	1	2	3	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
2.5°	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	31.3	30.6
5°	33.7	33.7	33.1	33.1	33.1	33.1	33.1	33.1	31.9	30.6	28.8
7.5°	34.3	34.3	33.7	33.7	33.7	33.7	33.1	32.5	31.3	28.8	27.0
10°	34.9	34.9	34.9	34.9	34.3	33.7	33.1	31.9	30.0	27.0	25.1
12.5°	39.2	39.2	38.6	37.4	36.2	34.9	33.7	31.3	27.6	24.5	22.7
15°	49.0	48.4	47.2	45.4	42.9	39.8	37.4	30.6	25.1	21.5	20.2
17.5°	68.6	67.4	65.6	59.5	53.9	48.4	43.5	30.6	22.7	19.0	17.8
20°	119.5	120.1	107.3	92.6	80.3	66.8	54.6	31.9	20.2	16.5	15.9
22.5°	249.5	239.7	209.0	173.5	132.4	102.4	77.2	34.9	17.8	14.1	14.1
25°	535.1	497.7	423.5	320.0	225.6	160.0	112.2	39.2	15.9	12.3	12.9
27.5°	977.0	943.3	794.4	598.2	397.2	241.5	152.0	44.7	14.1	10.4	11.6
30°	1554.4	1461.3	1267.0	980.7	663.8	369.6	204.1	50.9	11.6	9.2	11.0
31°	1734.6	1691.7	1455.1	1134.6	777.8	438.9	226.2	52.7	11.0	9.2	10.4
32°	1948.5	1872.5	1660.5	1303.1	893.7	500.8	252.5	54.6	10.4	8.0	10.4
33°	2139.8	2066.2	1808.2	1451.4	1010.7	571.3	280.7	55.2	9.2	8.0	9.8
34°	2340.8	2240.3	1984.7	1606.5	1130.9	647.3	306.5	55.8	8.6	7.4	9.8
35°	2484.9	2384.3	2136.7	1729.1	1234.5	714.7	335.9	55.8	8.0	7.4	9.2
36°	2596.4	2508.2	2267.9	1855.4	1337.4	775.4	359.2	55.8	6.7	6.7	9.2
37°	2673.0	2589.1	2356.2	1963.9	1415.9	829.3	380.0	55.8	6.1	6.7	9.2
38°	2710.4	2640.6	2441.4	2042.9	1491.9	871.6	396.6	54.6	5.5	6.1	8.6
39°	2726.4	2669.4	2493.5	2109.7	1548.9	908.4	408.8	53.3	4.9	6.1	8.6
40°	2723.9	2674.3	2522.9	2155.7	1594.9	933.5	415.6	51.5	4.3	5.5	8.6
41°	2709.8	2666.9	2538.2	2194.9	1622.5	950.7	417.4	49.6	3.7	5.5	8.0
42°	2693.9	2654.7	2543.1	2215.8	1640.2	956.2	412.5	47.2	3.7	4.9	8.0
43°	2677.3	2641.2	2543.1	2222.5	1644.5	952.5	404.5	42.9	3.1	4.9	8.0
44°	2663.8	2629.5	2535.1	2220.7	1635.3	938.4	389.8	38.0	2.5	4.9	8.0
45°	2647.9	2614.2	2524.7	2209.0	1617.6	914.5	371.4	33.7	1.8	4.3	8.0
46°	2619.7	2593.4	2506.3	2185.1	1589.4	881.4	348.2	30.6	1.2	4.3	7.4
47°	2565.2	2542.5	2470.8	2149.6	1552.0	842.2	324.2	27.6	1.2	4.3	7.4
48°	2455.4	2454.8	2399.7	2083.4	1492.5	793.1	299.1	24.5	1.2	4.3	7.4
49°	2349.4	2338.4	2269.7	1966.9	1407.3	734.3	272.8	22.1	0.6	4.3	7.4
50°	2291.2	2267.3	2154.5	1829.6	1298.2	652.8	244.6	18.4	0.6	3.7	7.4
51°	2230.5	2196.2	2063.2	1705.8	1168.3	574.3	213.9	14.7	0.6	3.7	6.7
52°	2120.8	2088.3	1939.4	1587.5	1042.0	494.0	184.5	12.3	0.6	3.7	7.4
53°	2002.5	1955.9	1794.1	1457.6	931.1	422.9	154.5	10.4	0.6	3.7	6.7
54°	1853.5	1832.7	1647.0	1298.2	801.1	354.3	126.9	8.6	0.6	3.7	6.7
55°	1713.2	1682.5	1489.5	1135.2	683.4	290.5	106.0	6.7	0.6	3.7	6.7
56°	1534.2	1488.2	1307.4	985.6	563.9	234.1	89.5	5.5	0.6	3.7	6.7
57°	1320.9	1271.9	1129.0	819.5	442.5	178.4	74.8	4.3	0.6	3.7	6.7
58°	1117.4	1075.1	921.9	632.6	333.4	123.8	61.9	3.1	0.6	3.1	6.7
59°	965.4	918.8	766.8	486.7	231.7	91.3	46.6	2.5	0.6	3.7	6.7
60°	836.1	776.0	617.2	377.0	165.5	65.6	34.3	1.2	1.2	3.7	6.7
62.5°	481.8	425.4	294.8	153.2	68.0	33.7	16.5	0.6	1.2	3.7	6.7
65°	122.0	108.5	70.5	33.1	19.0	11.6	6.1	0.6	1.2	3.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.3	4.3	4.3	3.7	3.1	2.5	1.2	0.6	1.2	3.1	6.1
70°	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.6	1.2	3.1	5.5
72.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.8	3.1	4.9
75°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.8	3.1	4.9
77.5°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.5	4.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.5	3.7
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.5	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	1.8	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.5	1.8
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):

	135°	157.5°	180°
0°	31.3	31.3	31.3
2.5°	29.4	29.4	29.4
5°	27.6	27.6	27.0
7.5°	25.7	25.1	25.1
10°	23.3	23.3	23.3
12.5°	21.5	21.5	21.5
15°	19.6	20.2	20.2
17.5°	17.8	19.0	19.0
20°	16.5	17.8	18.4
22.5°	15.3	16.5	17.2
25°	14.7	15.9	16.5
27.5°	13.5	15.3	16.5
30°	12.9	14.7	15.9
31°	12.9	14.7	15.3
32°	12.3	14.7	15.3
33°	12.3	14.7	15.3
34°	12.3	14.1	15.3
35°	11.6	14.1	14.7
36°	11.6	14.1	14.7
37°	11.6	14.1	15.3
38°	11.6	14.1	14.7
39°	11.0	14.1	14.7
40°	11.0	14.1	14.7
41°	11.0	14.1	14.7
42°	11.0	14.1	14.7
43°	11.0	14.1	14.7
44°	11.0	13.5	14.7
45°	11.0	13.5	14.7
46°	11.0	14.1	14.7
47°	11.0	14.1	15.3
48°	11.0	13.5	14.7
49°	10.4	13.5	14.7
50°	10.4	13.5	14.7
51°	10.4	14.1	15.3
52°	10.4	14.1	15.3
53°	10.4	14.1	15.3
54°	10.4	14.1	14.7
55°	10.4	14.1	15.3
56°	10.4	14.1	14.7
57°	10.4	14.1	14.7
58°	10.4	13.5	14.7
59°	10.4	13.5	14.7
60°	10.4	13.5	14.7
62.5°	9.8	13.5	14.7
65°	9.8	12.9	14.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	9.2	12.9	13.5
70°	8.6	12.3	12.9
72.5°	8.0	11.6	12.3
75°	7.4	10.4	11.0
77.5°	6.1	9.2	10.4
80°	5.5	8.0	8.6
82.5°	4.3	6.7	7.4
85°	3.1	4.9	4.9
87.5°	1.2	2.5	2.5
90°	0.0	0.0	0.0

(END OF REPORT)