

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: P1308956

Luminaire Tested: P3SQAS09R309035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R309035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

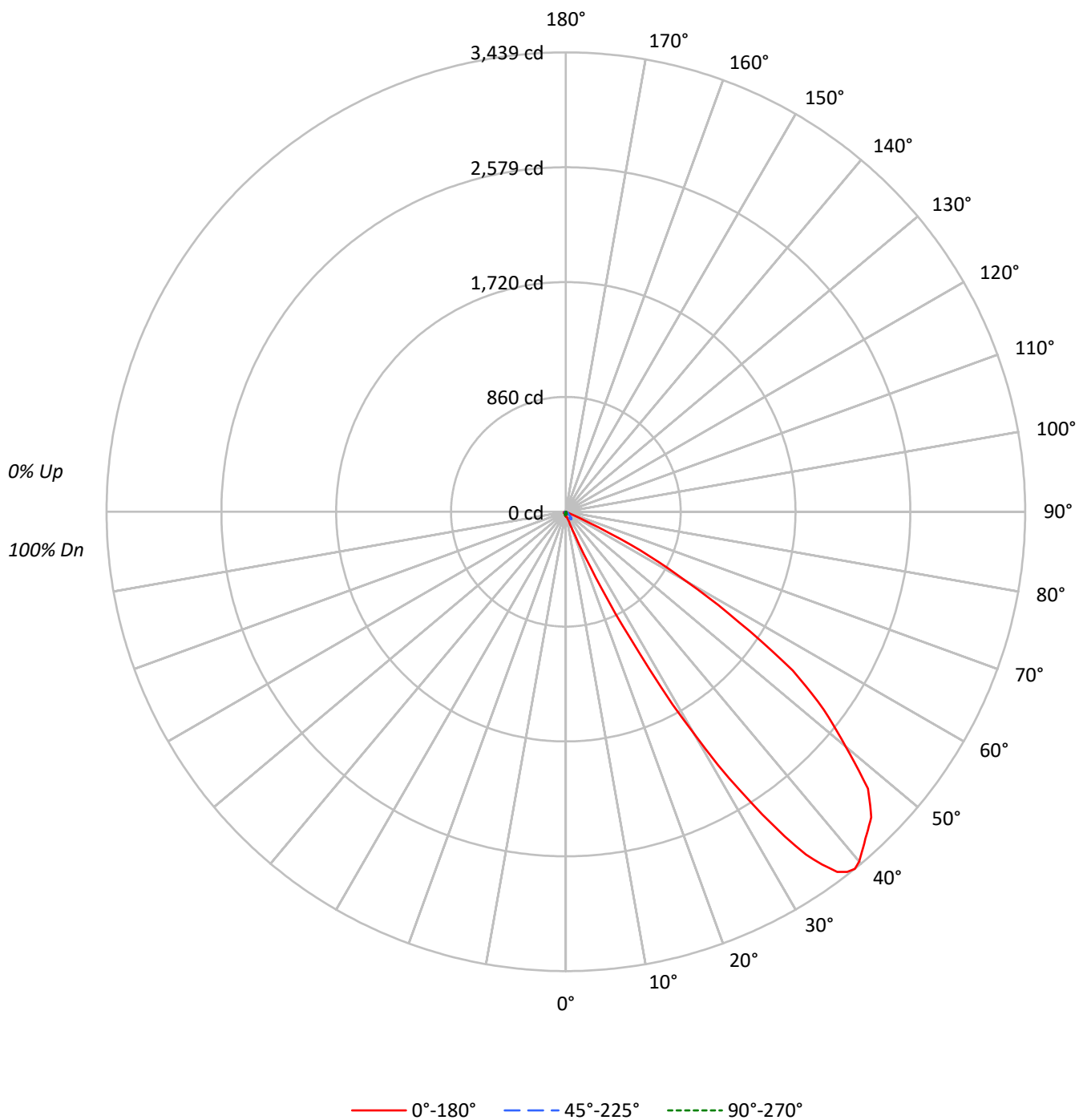
Lumens per Lamp: N/A
Luminaire Lumens: 894.1 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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					0
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	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	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5959	5959	5959	5959	5959
5°	6379	6241	5861	5342	5204
10°	6978	6191	5141	4617	4477
15°	10199	6169	4297	3887	4030
20°	25677	6763	3317	3317	3720
25°	119204	8437	2584	3002	3439
30°	379495	11673	1949	2844	3440
35°	658487	14255	1577	2691	3490
40°	767965	14231	1192	2698	3552
45°	787599	10083	1291	2923	3848
50°	732416	5653	1018	3028	4448
55°	622501	2943	1141	3393	4984
60°	359532	792	1309	3617	5442
65°	73352	0	1549	4279	6153
70°	1158	403	1913	4935	7201
75°	998	532	1996	4991	8517
80°	793	793	2975	5951	9720
85°	0	1581	5928	5928	11856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 787599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	9.0	1.0
20°-30°	51.6	5.8
30°-40°	240.8	26.9
40°-50°	340.5	38.1
50°-60°	209.5	23.4
60°-70°	31.9	3.6
70°-80°	5.1	0.6
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°	63.7	7.1
0°-40°	304.5	34.1
0°-60°	854.5	95.6
0°-90°	894.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	37	36	34	31	30	4
15°	57	35	24	22	23	20
25°	627	44	14	16	18	386
35°	3132	68	8	13	17	1880
45°	3234	41	5	12	16	2451
55°	2073	10	4	11	17	1764
65°	180	0	4	10	15	326
75°	2	1	3	8	13	2
85°	0	1	3	3	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
2.5°	35.4	35.4	36.1	36.1	35.4	36.1	36.1	36.1	34.6	33.9	32.4
5°	36.9	36.9	36.9	37.7	36.9	36.9	36.1	35.4	33.9	31.6	30.9
7.5°	38.4	38.4	37.7	38.4	37.7	37.7	36.1	34.6	32.4	30.1	28.6
10°	39.9	39.9	39.2	39.2	38.4	38.4	35.4	33.1	29.4	27.1	26.4
12.5°	44.4	44.4	43.7	42.9	41.4	40.7	34.6	30.9	26.4	24.1	23.3
15°	57.2	56.5	55.0	52.7	48.9	48.2	34.6	28.6	24.1	21.8	21.8
17.5°	78.3	77.6	75.3	69.3	62.5	60.2	34.6	25.6	21.1	19.6	19.6
20°	140.1	134.0	122.8	107.7	91.9	83.6	36.9	22.6	18.1	17.3	18.1
21°	183.0	177.0	162.7	137.8	109.9	100.9	38.4	21.8	17.3	16.6	18.1
22°	249.3	242.5	213.1	179.2	139.3	123.5	39.2	20.3	15.8	15.8	17.3
23°	347.9	336.6	286.9	232.7	174.0	151.4	40.7	19.6	15.1	15.8	16.6
24°	455.6	445.8	389.3	308.0	222.2	189.8	42.2	18.8	14.3	14.3	15.8
25°	627.3	616.0	515.9	388.6	281.6	228.2	44.4	17.3	13.6	13.6	15.8
26°	849.5	797.5	664.2	500.8	347.2	286.2	46.7	16.6	12.8	13.6	15.1
27°	1060.3	1017.4	867.5	642.4	429.2	351.7	49.7	15.8	12.0	12.8	15.1
28°	1337.4	1277.2	1088.2	812.6	540.7	425.5	52.7	15.1	11.3	12.8	14.3
29°	1647.7	1563.4	1335.2	1003.8	666.5	508.3	55.7	14.3	10.5	12.0	14.3
30°	1908.3	1829.2	1601.0	1230.5	811.1	617.5	58.7	13.6	9.8	12.0	14.3
31°	2214.0	2094.3	1817.9	1422.5	935.3	726.7	61.8	12.0	9.0	11.3	13.6
32°	2461.8	2378.2	2084.5	1639.4	1098.7	847.2	64.0	11.3	9.0	11.3	13.6
33°	2701.3	2589.0	2305.1	1847.3	1246.3	970.7	66.3	10.5	8.3	10.5	13.6
34°	2930.2	2827.0	2513.7	2015.2	1385.6	1088.2	67.8	9.0	8.3	10.5	12.8
35°	3132.0	3012.3	2697.5	2179.4	1528.7	1195.1	67.8	8.3	7.5	9.8	12.8
36°	3263.0	3177.2	2857.1	2341.3	1658.3	1296.8	67.8	7.5	6.8	9.8	12.0
37°	3375.3	3275.1	2985.2	2465.5	1753.9	1378.1	67.8	6.8	6.8	9.8	12.0
38°	3421.2	3335.3	3073.3	2575.5	1843.5	1461.0	67.0	6.0	6.0	9.0	12.0
39°	3439.3	3362.4	3139.5	2654.6	1909.8	1516.7	65.5	5.3	6.0	9.0	12.0
40°	3415.9	3357.9	3173.4	2705.8	1962.5	1557.3	63.3	4.5	5.3	9.0	12.0
42.5°	3319.5	3281.1	3165.9	2757.0	2007.7	1587.5	55.0	3.0	5.3	8.3	12.0
45°	3233.7	3191.5	3089.8	2703.5	1948.9	1528.0	41.4	1.5	5.3	8.3	12.0
47.5°	3067.2	3040.9	2961.1	2567.2	1820.2	1393.9	29.4	0.8	4.5	7.5	11.3
50°	2733.6	2708.8	2603.4	2229.1	1565.6	1178.6	21.1	0.8	3.8	7.5	11.3
52.5°	2434.7	2408.3	2256.9	1853.3	1202.6	863.8	13.6	0.8	3.8	7.5	11.3
55°	2073.2	2027.3	1828.4	1406.7	852.5	579.1	9.8	0.8	3.8	6.8	11.3
57.5°	1534.8	1467.7	1290.0	959.4	491.0	314.0	5.3	0.8	3.8	6.8	11.3
60°	1043.8	1003.8	807.3	506.1	209.4	132.5	2.3	0.8	3.8	6.8	10.5
62.5°	632.6	582.1	405.9	215.4	90.4	60.2	0.0	1.5	3.8	6.8	10.5
65°	180.0	159.7	106.2	48.9	25.6	19.6	0.0	1.5	3.8	6.8	10.5
67.5°	6.0	6.0	6.0	5.3	3.8	3.8	0.8	1.5	3.8	6.8	9.8
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	1.5	3.8	6.0	9.8
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	3.0	5.3	9.0
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.0	5.3	7.5
77.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.0	4.5	7.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.0	4.5	6.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	2.3	3.0	3.0	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.0	2.3	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.3	2.3	1.5
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):

	157.5°	180°
0°	34.6	34.6
2.5°	32.4	32.4
5°	30.1	30.1
7.5°	27.9	27.9
10°	25.6	25.6
12.5°	24.1	24.1
15°	21.8	22.6
17.5°	20.3	21.1
20°	19.6	20.3
21°	19.6	20.3
22°	18.8	19.6
23°	18.8	19.6
24°	18.1	18.8
25°	17.3	18.1
26°	17.3	18.1
27°	17.3	18.1
28°	16.6	18.1
29°	16.6	17.3
30°	16.6	17.3
31°	15.8	17.3
32°	15.8	17.3
33°	15.8	16.6
34°	15.1	16.6
35°	15.1	16.6
36°	15.1	16.6
37°	15.1	15.8
38°	15.1	16.6
39°	15.1	15.8
40°	15.1	15.8
42.5°	15.1	15.8
45°	15.1	15.8
47.5°	15.1	16.6
50°	15.1	16.6
52.5°	15.1	16.6
55°	15.1	16.6
57.5°	15.1	15.8
60°	15.1	15.8
62.5°	14.3	15.8
65°	14.3	15.1
67.5°	14.3	15.1
70°	13.6	14.3
72.5°	12.8	13.6
75°	11.3	12.8
77.5°	10.5	11.3
80°	9.0	9.8



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.5	7.5
85°	5.3	6.0
87.5°	3.0	3.0
90°	0.0	0.0

(END OF REPORT)