Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1315499

Luminaire Tested: P3SQAS17R309740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1315499
	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:	P3SQAS17R309740DE010 E3SQCA451MMS
Description:	3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1479.9 lumens
Efficiency:	N/A
Efficacy:	69.8 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):	21.2
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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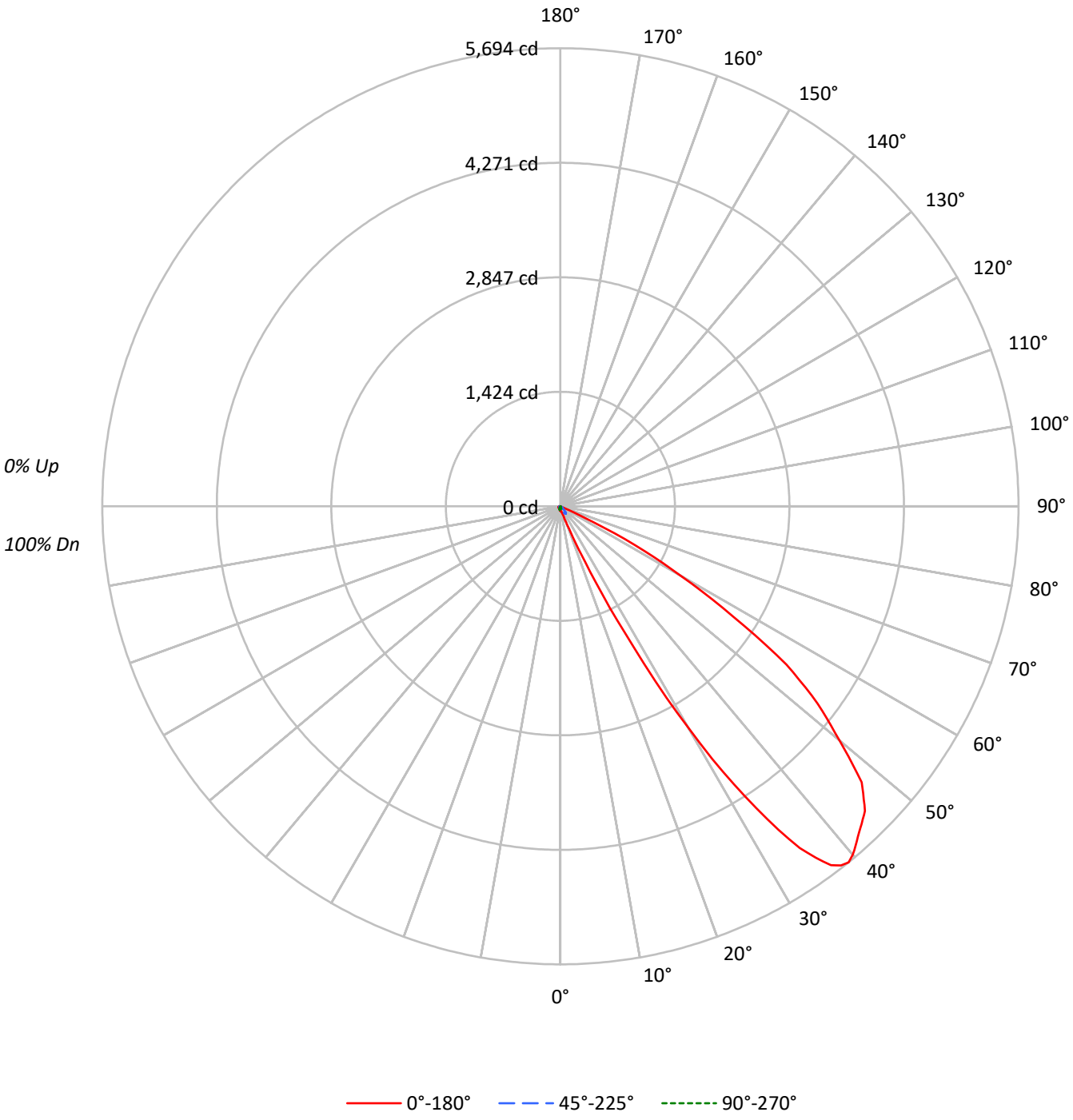
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	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°	9868	9868	9868	9868	9868
5°	10563	10338	9699	8834	8627
10°	11560	10248	8499	7625	7415
15°	16885	10216	7114	6454	6668
20°	42502	11198	5480	5480	6176
25°	197343	13986	4257	4979	5682
30°	628236	19330	3222	4713	5707
35°	1090120	23589	2628	4457	5761
40°	1271361	23539	1956	4474	5890
45°	1303848	16708	2119	4847	6381
50°	1212521	9351	1661	5010	7341
55°	1030526	4864	1862	5615	8227
60°	595167	1274	2136	6028	9024
65°	121439	0	2527	7131	10147
70°	1863	604	3122	8157	11934
75°	1664	799	3327	8318	14107
80°	1190	1190	4959	9918	16067
85°	0	2371	9880	9880	19760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1303848 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.4
10°-20°	14.9	1.0
20°-30°	85.4	5.8
30°-40°	398.6	26.9
40°-50°	563.7	38.1
50°-60°	346.8	23.4
60°-70°	52.8	3.6
70°-80°	8.4	0.6
80°-90°	4.2	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°	105.5	7.1
0°-40°	504.1	34.1
0°-60°	1414.6	95.6
0°-90°	1479.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	61	60	56	51	50	6
15°	95	57	40	36	37	34
25°	1038	74	22	26	30	639
35°	5185	112	12	21	27	3112
45°	5353	69	9	20	26	4058
55°	3432	16	6	19	27	2920
65°	298	0	6	18	25	539
75°	2	1	5	12	21	3
85°	0	1	5	5	10	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°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
2.5°	58.6	58.6	59.8	59.8	58.6	59.8	59.8	59.8	57.3	56.1	53.6
5°	61.1	61.1	61.1	62.3	61.1	61.1	59.8	58.6	56.1	52.4	51.1
7.5°	63.6	63.6	62.3	63.6	62.3	62.3	59.8	57.3	53.6	49.9	47.4
10°	66.1	66.1	64.8	64.8	63.6	63.6	58.6	54.9	48.6	44.9	43.6
12.5°	73.6	73.6	72.3	71.1	68.6	67.3	57.3	51.1	43.6	39.9	38.6
15°	94.7	93.5	91.0	87.3	81.0	79.8	57.3	47.4	39.9	36.2	36.2
17.5°	129.7	128.4	124.7	114.7	103.5	99.7	57.3	42.4	34.9	32.4	32.4
20°	231.9	221.9	203.2	178.3	152.1	138.4	61.1	37.4	29.9	28.7	29.9
21°	302.9	293.0	269.3	228.1	182.0	167.1	63.6	36.2	28.7	27.4	29.9
22°	412.7	401.4	352.8	296.7	230.6	204.5	64.8	33.7	26.2	26.2	28.7
23°	576.0	557.3	475.0	385.2	288.0	250.6	67.3	32.4	24.9	26.2	27.4
24°	754.2	738.0	644.5	509.9	367.8	314.2	69.8	31.2	23.7	23.7	26.2
25°	1038.5	1019.8	854.0	643.3	466.3	377.7	73.6	28.7	22.4	22.4	26.2
26°	1406.3	1320.2	1099.6	829.0	574.7	473.7	77.3	27.4	21.2	22.4	24.9
27°	1755.3	1684.3	1436.2	1063.4	710.6	582.2	82.3	26.2	19.9	21.2	24.9
28°	2214.1	2114.4	1801.5	1345.2	895.1	704.4	87.3	24.9	18.7	21.2	23.7
29°	2727.8	2588.1	2210.4	1661.8	1103.3	841.5	92.3	23.7	17.5	19.9	23.7
30°	3159.1	3028.2	2650.5	2037.1	1342.7	1022.3	97.2	22.4	16.2	19.9	23.7
31°	3665.3	3467.0	3009.5	2355.0	1548.4	1203.1	102.2	19.9	15.0	18.7	22.4
32°	4075.4	3937.0	3450.8	2714.0	1818.9	1402.5	106.0	18.7	15.0	18.7	22.4
33°	4471.9	4286.1	3816.1	3058.1	2063.3	1607.0	109.7	17.5	13.7	17.5	22.4
34°	4850.9	4680.1	4161.4	3336.1	2293.9	1801.5	112.2	15.0	13.7	17.5	21.2
35°	5185.0	4986.8	4465.6	3607.9	2530.8	1978.5	112.2	13.7	12.5	16.2	21.2
36°	5401.9	5259.8	4729.9	3876.0	2745.2	2146.8	112.2	12.5	11.2	16.2	19.9
37°	5587.7	5421.9	4941.9	4081.7	2903.5	2281.4	112.2	11.2	11.2	16.2	19.9
38°	5663.7	5521.6	5087.7	4263.7	3051.9	2418.6	111.0	10.0	10.0	15.0	19.9
39°	5693.6	5566.5	5197.4	4394.6	3161.6	2510.8	108.5	8.7	10.0	15.0	19.9
40°	5655.0	5559.0	5253.5	4479.4	3248.9	2578.2	104.7	7.5	8.7	15.0	19.9
42.5°	5495.4	5431.8	5241.1	4564.1	3323.7	2628.0	91.0	5.0	8.7	13.7	19.9
45°	5353.3	5283.5	5115.2	4475.6	3226.4	2529.5	68.6	2.5	8.7	13.7	19.9
47.5°	5077.8	5034.1	4902.0	4250.0	3013.2	2307.6	48.6	1.2	7.5	12.5	18.7
50°	4525.5	4484.3	4309.8	3690.2	2591.9	1951.1	34.9	1.2	6.2	12.5	18.7
52.5°	4030.5	3986.9	3736.3	3068.1	1991.0	1430.0	22.4	1.2	6.2	12.5	18.7
55°	3432.1	3356.1	3027.0	2328.8	1411.3	958.7	16.2	1.2	6.2	11.2	18.7
57.5°	2540.8	2429.8	2135.6	1588.3	812.8	519.9	8.7	1.2	6.2	11.2	18.7
60°	1727.9	1661.8	1336.5	837.8	346.6	219.4	3.7	1.2	6.2	11.2	17.5
62.5°	1047.2	963.7	672.0	356.6	149.6	99.7	0.0	2.5	6.2	11.2	17.5
65°	298.0	264.3	175.8	81.0	42.4	32.4	0.0	2.5	6.2	11.2	17.5
67.5°	10.0	10.0	10.0	8.7	6.2	6.2	1.2	2.5	6.2	11.2	16.2
70°	3.7	3.7	3.7	2.5	2.5	1.2	1.2	2.5	6.2	10.0	16.2
72.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	2.5	5.0	8.7	15.0
75°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	5.0	8.7	12.5
77.5°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	5.0	7.5	12.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	7.5	10.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	*1.2*	1.2	1.2	0.0	0.0	0.0	1.2	3.7	5.0	5.0	7.5
85°	*0.0*	0.0	0.0	0.0	0.0	0.0	1.2	3.7	5.0	3.7	5.0
87.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	1.2	3.7	3.7	3.7	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):

	157.5°	180°
0°	57.3	57.3
2.5°	53.6	53.6
5°	49.9	49.9
7.5°	46.1	46.1
10°	42.4	42.4
12.5°	39.9	39.9
15°	36.2	37.4
17.5°	33.7	34.9
20°	32.4	33.7
21°	32.4	33.7
22°	31.2	32.4
23°	31.2	32.4
24°	29.9	31.2
25°	28.7	29.9
26°	28.7	29.9
27°	28.7	29.9
28°	27.4	29.9
29°	27.4	28.7
30°	27.4	28.7
31°	26.2	28.7
32°	26.2	28.7
33°	26.2	27.4
34°	24.9	27.4
35°	24.9	27.4
36°	24.9	27.4
37°	24.9	26.2
38°	24.9	27.4
39°	*24.9*	*26.2*
40°	24.9	26.2
42.5°	24.9	26.2
45°	24.9	26.2
47.5°	24.9	27.4
50°	24.9	27.4
52.5°	24.9	27.4
55°	24.9	27.4
57.5°	24.9	26.2
60°	24.9	26.2
62.5°	23.7	26.2
65°	23.7	24.9
67.5°	23.7	24.9
70°	22.4	23.7
72.5°	21.2	22.4
75°	18.7	21.2
77.5°	17.5	18.7
80°	15.0	16.2

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	12.5	12.5
85°	8.7	10.0
87.5°	5.0	5.0
90°	0.0	0.0

(END OF REPORT)