

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: P1314561

Luminaire Tested: P3SQAS17R409735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R409735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

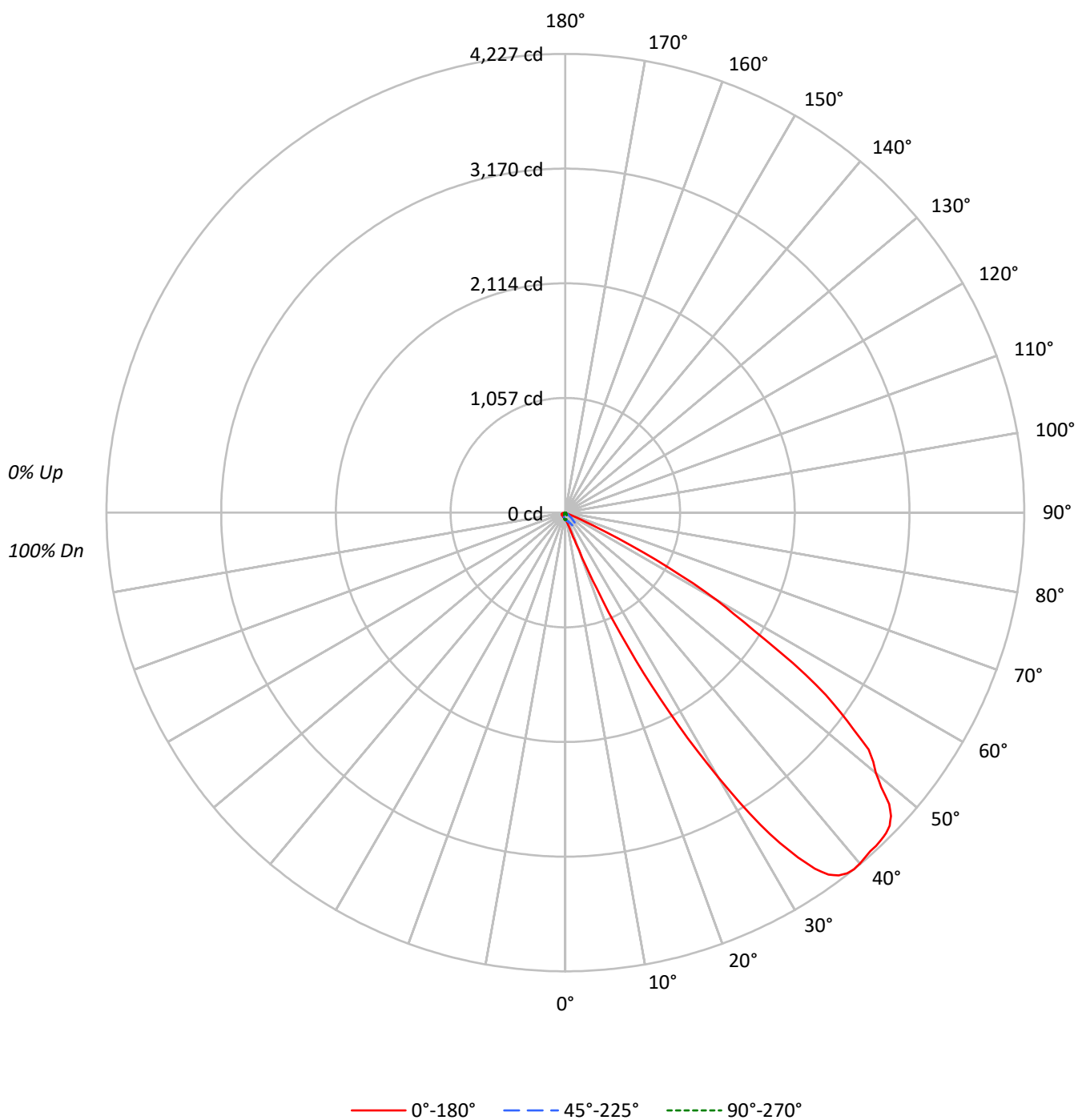
Lumens per Lamp: N/A
Luminaire Lumens: 1306.0 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			
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	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	82	70	62	55	80	69	61	54	67	59	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	38		50	43	37		48	42	37	35
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	42	33	27	40	32	27		39	32	27		38	31	26	24
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	20		30	24	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11573	11573	11573	11573	11573
5°	12862	12447	11410	10373	10165
10°	15529	13221	10493	9443	9234
15°	25443	14335	8986	8344	8558
20°	67262	16935	7478	7478	8137
25°	259367	20960	5929	6841	7981
30°	559548	27901	4773	6682	7875
35°	842221	33029	4037	6560	8073
40°	948878	33161	3507	6745	8633
45°	1017446	25696	3215	7015	9353
50°	1000052	16076	2894	7395	10289
55°	879795	7927	2883	8287	11530
60°	556899	1653	3307	9093	12813
65°	113900	489	3423	9780	14181
70°	2417	604	3626	10877	16315
75°	2396	1597	3993	11978	18366
80°	2380	1190	4761	13092	21423
85°	2371	2371	9485	14227	23712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1035838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.5
10°-20°	20.7	1.6
20°-30°	101.5	7.8
30°-40°	329.9	25.3
40°-50°	454.9	34.8
50°-60°	316.8	24.3
60°-70°	60.1	4.6
70°-80°	10.9	0.8
80°-90°	5.0	0.4
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°	128.4	9.8
0°-40°	458.4	35.1
0°-60°	1230.1	94.2
0°-90°	1306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1306.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	74	72	66	60	59	7
15°	143	80	50	47	48	52
25°	1365	110	31	36	42	703
35°	4006	157	19	31	38	2421
45°	4177	106	13	29	38	3177
55°	2930	26	10	28	38	2504
65°	280	1	8	24	35	494
75°	4	2	6	18	28	3
85°	1	1	5	7	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
2.5°	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	68.4	67.2
5°	74.4	74.4	74.4	74.4	73.2	73.2	73.2	72.0	72.0	69.6	66.0
7.5°	79.2	79.2	79.2	79.2	78.0	76.8	75.6	75.6	74.4	68.4	63.6
10°	88.8	88.8	87.6	86.4	85.2	82.8	81.6	79.2	75.6	67.2	60.0
12.5°	107.9	105.5	104.3	101.9	98.3	93.6	88.8	85.2	76.8	64.8	56.4
15°	142.7	140.3	135.5	128.3	121.1	111.5	103.1	94.8	80.4	61.2	50.4
17.5°	203.9	196.7	189.5	177.5	159.5	142.7	124.7	109.1	85.2	57.6	45.6
20°	367.0	362.2	319.0	285.5	231.5	193.1	157.1	130.7	92.4	54.0	40.8
22.5°	756.8	706.4	635.7	520.5	405.4	298.6	217.1	164.3	99.5	49.2	36.0
25°	1364.9	1285.7	1133.4	911.5	672.9	476.2	314.2	214.7	110.3	44.4	31.2
27.5°	2066.5	1986.2	1749.9	1444.1	1054.3	718.4	448.6	284.3	124.7	39.6	27.6
30°	2813.7	2745.4	2445.5	2022.2	1486.0	1006.3	600.9	355.0	140.3	34.8	24.0
31°	3114.8	3027.2	2703.4	2252.4	1688.7	1125.0	662.1	385.0	146.3	33.6	22.8
32°	3391.8	3292.3	2956.5	2473.1	1853.0	1253.4	729.2	411.4	151.1	31.2	21.6
33°	3630.5	3514.2	3190.3	2681.8	2034.1	1373.3	798.8	436.6	154.7	28.8	20.4
34°	3833.2	3732.5	3384.6	2891.7	2194.9	1488.4	867.2	461.8	157.1	27.6	19.2
35°	4005.9	3914.8	3570.6	3051.2	2352.0	1600.0	929.5	485.7	157.1	25.2	19.2
36°	4122.3	4043.1	3731.3	3214.3	2483.9	1694.7	982.3	507.3	157.1	22.8	18.0
37°	4185.8	4109.1	3836.8	3348.7	2613.4	1788.3	1030.3	524.1	155.9	21.6	16.8
38°	4218.2	4151.1	3914.8	3457.8	2703.4	1855.4	1072.2	537.3	154.7	19.2	16.8
39°	4226.6	4170.2	3963.9	3537.0	2791.0	1922.6	1102.2	544.5	151.1	18.0	15.6
40°	4220.6	4171.4	3990.3	3607.7	2858.1	1975.4	1123.8	546.9	147.5	15.6	15.6
41°	4208.6	4170.2	4009.5	3656.9	2912.1	2009.0	1132.2	542.1	142.7	13.2	14.4
42°	4197.8	4155.8	4017.9	3690.5	2949.3	2025.8	1131.0	532.5	135.5	12.0	14.4
43°	4197.8	4149.9	4019.1	3712.1	2967.3	2027.0	1116.6	514.5	125.9	10.8	13.2
44°	4190.6	4146.3	4025.1	3726.5	2972.1	2016.2	1093.8	495.3	115.1	9.6	13.2
45°	4177.4	4130.7	4023.9	3727.7	2963.7	1989.8	1056.7	470.2	105.5	7.2	13.2
46°	4152.3	4110.3	4013.1	3719.3	2938.5	1951.4	1012.3	445.0	94.8	6.0	12.0
47°	4101.9	4069.5	3984.3	3690.5	2900.1	1895.0	959.5	416.2	86.4	4.8	12.0
48°	4015.5	3992.7	3935.2	3626.9	2826.9	1825.5	903.1	385.0	78.0	4.8	12.0
49°	3857.2	3839.2	3805.6	3525.0	2733.4	1740.3	842.0	350.2	69.6	3.6	12.0
50°	3732.5	3713.3	3644.9	3353.5	2599.1	1632.4	774.8	315.4	60.0	2.4	10.8
51°	3649.7	3618.5	3510.6	3154.4	2403.6	1488.4	701.6	280.7	50.4	2.4	10.8
52°	3545.4	3498.6	3364.3	2975.7	2224.8	1344.5	622.5	245.9	44.4	2.4	10.8
53°	3327.1	3310.3	3177.2	2783.8	2046.1	1206.6	540.9	217.1	38.4	2.4	10.8
54°	3136.4	3111.2	2930.1	2517.5	1851.8	1053.1	457.0	191.9	32.4	2.4	10.8
55°	2930.1	2880.9	2720.2	2293.2	1624.0	911.5	376.6	165.5	26.4	2.4	9.6
56°	2669.8	2626.6	2453.9	2053.3	1414.1	767.6	315.4	135.5	20.4	2.4	9.6
57°	2353.2	2313.6	2180.5	1758.3	1195.8	627.3	256.7	109.1	15.6	2.4	9.6
58°	2047.3	2003.0	1850.6	1475.2	965.5	497.7	214.7	88.8	12.0	2.4	9.6
59°	1812.3	1752.3	1555.6	1239.0	755.6	377.8	170.3	70.8	8.4	2.4	9.6
60°	1616.8	1567.6	1363.7	1031.5	592.5	278.3	125.9	54.0	4.8	2.4	9.6
62.5°	936.7	923.5	740.0	531.3	279.5	129.5	62.4	25.2	2.4	3.6	9.6
65°	279.5	243.5	189.5	112.7	72.0	43.2	22.8	8.4	1.2	3.6	8.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	8.4	8.4	8.4	8.4	8.4	8.4	4.8	2.4	1.2	3.6	8.4
70°	4.8	3.6	3.6	3.6	3.6	2.4	2.4	1.2	1.2	3.6	7.2
72.5°	3.6	3.6	3.6	3.6	2.4	2.4	2.4	1.2	2.4	3.6	6.0
75°	3.6	2.4	2.4	2.4	2.4	1.2	1.2	1.2	2.4	3.6	6.0
77.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	2.4	3.6	6.0
80°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	3.6	3.6
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):

	112.5°	135°	157.5°	180°
0°	67.2	67.2	67.2	67.2
2.5°	64.8	63.6	62.4	62.4
5°	62.4	60.0	60.0	58.8
7.5°	58.8	56.4	56.4	56.4
10°	55.2	54.0	54.0	52.8
12.5°	50.4	50.4	50.4	50.4
15°	46.8	46.8	48.0	48.0
17.5°	42.0	43.2	45.6	46.8
20°	38.4	40.8	43.2	44.4
22.5°	36.0	38.4	42.0	43.2
25°	32.4	36.0	40.8	42.0
27.5°	30.0	34.8	38.4	40.8
30°	27.6	33.6	37.2	39.6
31°	27.6	32.4	37.2	39.6
32°	26.4	31.2	37.2	38.4
33°	26.4	31.2	37.2	38.4
34°	25.2	31.2	36.0	38.4
35°	25.2	31.2	36.0	38.4
36°	24.0	30.0	36.0	38.4
37°	24.0	30.0	36.0	38.4
38°	22.8	30.0	36.0	38.4
39°	22.8	30.0	36.0	38.4
40°	22.8	30.0	36.0	38.4
41°	21.6	30.0	36.0	38.4
42°	21.6	30.0	36.0	38.4
43°	21.6	28.8	36.0	38.4
44°	21.6	28.8	36.0	38.4
45°	20.4	28.8	36.0	38.4
46°	20.4	28.8	36.0	38.4
47°	20.4	28.8	36.0	38.4
48°	20.4	28.8	36.0	38.4
49°	20.4	28.8	36.0	38.4
50°	19.2	27.6	36.0	38.4
51°	19.2	27.6	36.0	38.4
52°	19.2	27.6	36.0	38.4
53°	19.2	27.6	36.0	38.4
54°	18.0	27.6	36.0	38.4
55°	18.0	27.6	36.0	38.4
56°	18.0	27.6	36.0	37.2
57°	18.0	27.6	34.8	37.2
58°	18.0	26.4	34.8	37.2
59°	18.0	26.4	34.8	37.2
60°	18.0	26.4	34.8	37.2
62.5°	16.8	26.4	33.6	36.0
65°	15.6	24.0	33.6	34.8

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	15.6	22.8	31.2	33.6
70°	14.4	21.6	30.0	32.4
72.5°	12.0	20.4	27.6	30.0
75°	10.8	18.0	25.2	27.6
77.5°	9.6	15.6	22.8	24.0
80°	8.4	13.2	19.2	21.6
82.5°	6.0	9.6	15.6	16.8
85°	4.8	7.2	10.8	12.0
87.5°	3.6	3.6	6.0	6.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)