

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: P1311768

Luminaire Tested: P3SQAS24R309050D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311768
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: P3SQAS24R309050D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

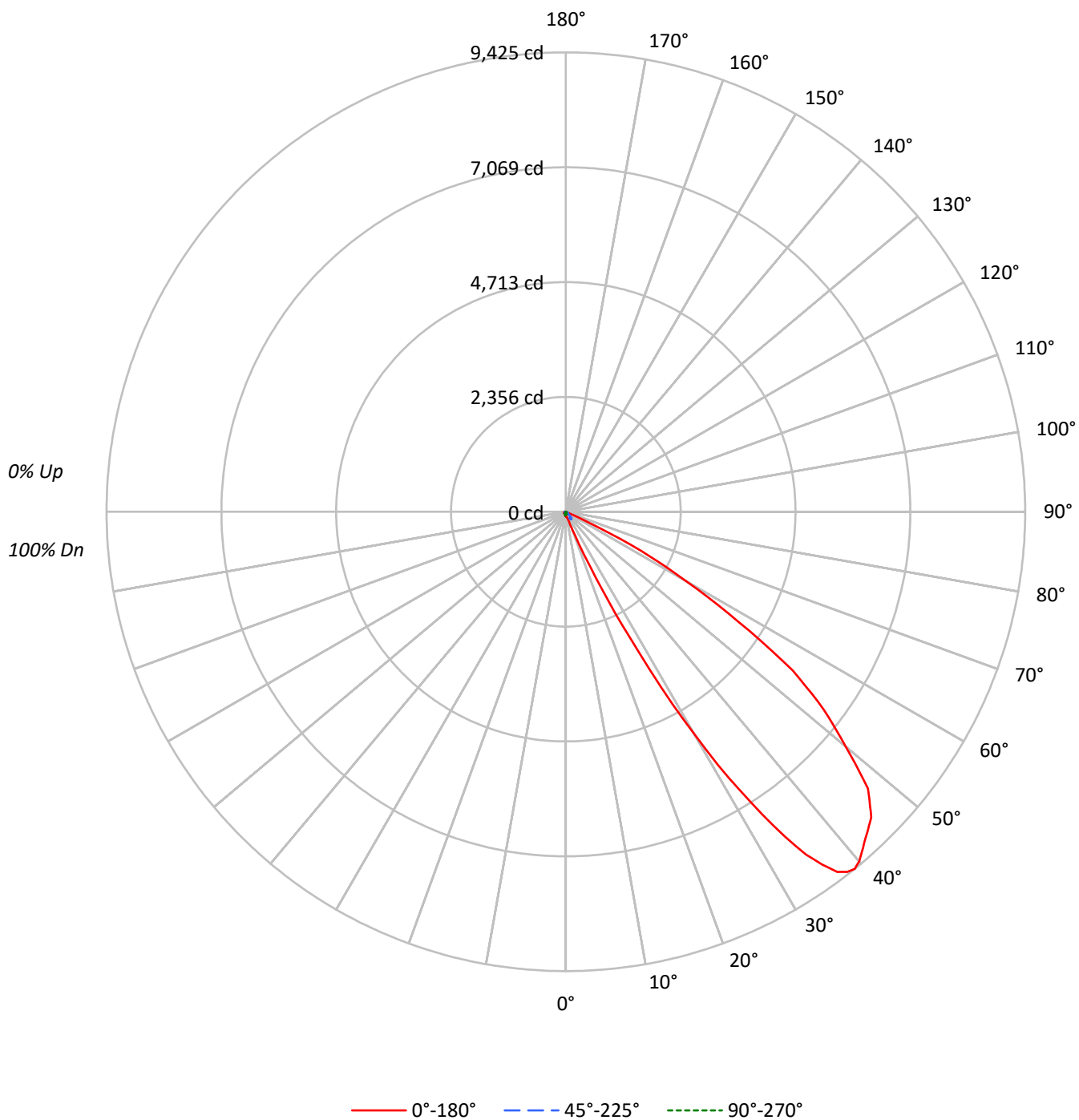
Lumens per Lamp: N/A
Luminaire Lumens: 2450.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16344	16344	16344	16344	16344
5°	17478	17132	16061	14626	14280
10°	19132	16963	14078	12626	12277
15°	27957	16920	11768	10662	11037
20°	70359	18529	9072	9072	10208
25°	326675	23145	7050	8228	9406
30°	1039987	32017	5330	7796	9446
35°	1804575	39043	4331	7380	9545
40°	2104614	38984	3237	7419	9735
45°	2158401	27644	3507	8037	10546
50°	2007204	15486	2760	8306	12164
55°	1705963	8047	3093	9308	13632
60°	985251	2136	3548	9954	14914
65°	200986	0	4197	11777	16830
70°	3122	1057	5187	13495	19739
75°	2728	1397	5523	13708	23356
80°	2083	2083	8232	16365	26580
85°	0	4150	16401	16401	32605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2158401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.4
10°-20°	24.7	1.0
20°-30°	141.3	5.8
30°-40°	659.9	26.9
40°-50°	933.2	38.1
50°-60°	574.1	23.4
60°-70°	87.4	3.6
70°-80°	13.9	0.6
80°-90°	6.9	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°	174.6	7.1
0°-40°	834.5	34.1
0°-60°	2341.8	95.6
0°-90°	2450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	95	95	95	95	95	
5°	101	99	93	85	83	10
15°	157	95	66	60	62	56
25°	1719	122	37	43	50	1058
35°	8583	186	21	35	45	5151
45°	8862	114	14	33	43	6718
55°	5682	27	10	31	45	4835
65°	493	0	10	29	41	893
75°	4	2	8	21	35	4
85°	0	2	8	8	16	1
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°	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
2.5°	97.0	97.0	99.1	99.1	97.0	99.1	99.1	99.1	94.9	92.9	88.7
5°	101.1	101.1	101.1	103.2	101.1	101.1	99.1	97.0	92.9	86.7	84.6
7.5°	105.3	105.3	103.2	105.3	103.2	103.2	99.1	94.9	88.7	82.6	78.4
10°	109.4	109.4	107.3	107.3	105.3	105.3	97.0	90.8	80.5	74.3	72.2
12.5°	121.8	121.8	119.7	117.6	113.5	111.4	94.9	84.6	72.2	66.0	64.0
15°	156.8	154.8	150.7	144.5	134.1	132.1	94.9	78.4	66.0	59.8	59.8
17.5°	214.6	212.6	206.4	189.9	171.3	165.1	94.9	70.2	57.8	53.7	53.7
20°	383.9	367.4	336.4	295.1	251.8	229.1	101.1	61.9	49.5	47.5	49.5
21°	501.5	485.0	445.8	377.7	301.3	276.5	105.3	59.8	47.5	45.4	49.5
22°	683.1	664.5	584.0	491.2	381.8	338.5	107.3	55.7	43.3	43.3	47.5
23°	953.5	922.5	786.3	637.7	476.7	414.8	111.4	53.7	41.3	43.3	45.4
24°	1248.6	1221.8	1067.0	844.1	608.8	520.1	115.6	51.6	39.2	39.2	43.3
25°	1719.1	1688.2	1413.7	1064.9	771.9	625.3	121.8	47.5	37.1	37.1	43.3
26°	2327.9	2185.5	1820.3	1372.4	951.4	784.2	128.0	45.4	35.1	37.1	41.3
27°	2905.8	2788.2	2377.5	1760.4	1176.4	963.8	136.2	43.3	33.0	35.1	41.3
28°	3665.3	3500.2	2982.2	2226.8	1481.8	1166.0	144.5	41.3	31.0	35.1	39.2
29°	4515.5	4284.4	3659.1	2751.0	1826.4	1393.0	152.7	39.2	28.9	33.0	39.2
30°	5229.6	5012.9	4387.6	3372.2	2222.7	1692.3	161.0	37.1	26.8	33.0	39.2
31°	6067.5	5739.4	4982.0	3898.5	2563.2	1991.5	169.2	33.0	24.8	31.0	37.1
32°	6746.5	6517.4	5712.5	4492.8	3011.1	2321.7	175.4	31.0	24.8	31.0	37.1
33°	7402.8	7095.3	6317.2	5062.4	3415.6	2660.2	181.6	28.9	22.7	28.9	37.1
34°	8030.2	7747.4	6888.9	5522.7	3797.3	2982.2	185.7	24.8	22.7	28.9	35.1
35°	8583.2	8255.1	7392.4	5972.6	4189.5	3275.2	185.7	22.7	20.6	26.8	35.1
36°	8942.3	8707.1	7830.0	6416.3	4544.4	3553.8	185.7	20.6	18.6	26.8	33.0
37°	9249.8	8975.4	8180.8	6756.8	4806.5	3776.7	185.7	18.6	18.6	26.8	33.0
38°	9375.7	9140.5	8422.3	7058.1	5052.1	4003.7	183.7	16.5	16.5	24.8	33.0
39°	9425.3	9214.8	8603.9	7274.8	5233.7	4156.4	179.5	14.4	16.5	24.8	33.0
40°	9361.3	9202.4	8696.8	7415.1	5378.2	4267.9	173.4	12.4	14.4	24.8	33.0
42.5°	9097.1	8991.9	8676.1	7555.5	5502.0	4350.4	150.7	8.3	14.4	22.7	33.0
45°	8861.9	8746.3	8467.7	7409.0	5341.1	4187.4	113.5	4.1	14.4	22.7	33.0
47.5°	8405.8	8333.5	8114.8	7035.4	4988.1	3820.1	80.5	2.1	12.4	20.6	31.0
50°	7491.5	7423.4	7134.5	6108.8	4290.6	3229.8	57.8	2.1	10.3	20.6	31.0
52.5°	6672.2	6600.0	6185.1	5079.0	3295.9	2367.2	37.1	2.1	10.3	20.6	31.0
55°	5681.6	5555.7	5010.8	3855.1	2336.2	1587.0	26.8	2.1	10.3	18.6	31.0
57.5°	4206.0	4022.3	3535.2	2629.3	1345.6	860.6	14.4	2.1	10.3	18.6	31.0
60°	2860.4	2751.0	2212.4	1386.9	573.7	363.2	6.2	2.1	10.3	18.6	28.9
62.5°	1733.6	1595.3	1112.4	590.2	247.7	165.1	0.0	4.1	10.3	18.6	28.9
65°	493.2	437.5	291.0	134.1	70.2	53.7	0.0	4.1	10.3	18.6	28.9
67.5°	16.5	16.5	16.5	14.4	10.3	10.3	2.1	4.1	10.3	18.6	26.8
70°	6.2	6.2	6.2	4.1	4.1	2.1	2.1	4.1	10.3	16.5	26.8
72.5°	4.1	4.1	4.1	4.1	2.1	2.1	2.1	4.1	8.3	14.4	24.8
75°	4.1	4.1	4.1	2.1	2.1	2.1	2.1	6.2	8.3	14.4	20.6
77.5°	4.1	4.1	4.1	2.1	2.1	2.1	2.1	6.2	8.3	12.4	20.6
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3	12.4	16.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	2.1	2.1	2.1	0.0	0.0	0.0	2.1	6.2	8.3	8.3	12.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.2	8.3	6.2	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.2	6.2	6.2	4.1
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°	94.9	94.9
2.5°	88.7	88.7
5°	82.6	82.6
7.5°	76.4	76.4
10°	70.2	70.2
12.5°	66.0	66.0
15°	59.8	61.9
17.5°	55.7	57.8
20°	53.7	55.7
21°	53.7	55.7
22°	51.6	53.7
23°	51.6	53.7
24°	49.5	51.6
25°	47.5	49.5
26°	47.5	49.5
27°	47.5	49.5
28°	45.4	49.5
29°	45.4	47.5
30°	45.4	47.5
31°	43.3	47.5
32°	43.3	47.5
33°	43.3	45.4
34°	41.3	45.4
35°	41.3	45.4
36°	41.3	45.4
37°	41.3	43.3
38°	41.3	45.4
39°	41.3	43.3
40°	41.3	43.3
42.5°	41.3	43.3
45°	41.3	43.3
47.5°	41.3	45.4
50°	41.3	45.4
52.5°	41.3	45.4
55°	41.3	45.4
57.5°	41.3	43.3
60°	41.3	43.3
62.5°	39.2	43.3
65°	39.2	41.3
67.5°	39.2	41.3
70°	37.1	39.2
72.5°	35.1	37.1
75°	31.0	35.1
77.5°	28.9	31.0
80°	24.8	26.8

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	20.6	20.6
85°	14.4	16.5
87.5°	8.3	8.3
90°	0.0	0.0

(END OF REPORT)