

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: P1310726

Luminaire Tested: P3SQAS24R409040D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310726
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: P3SQAS24R409040D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

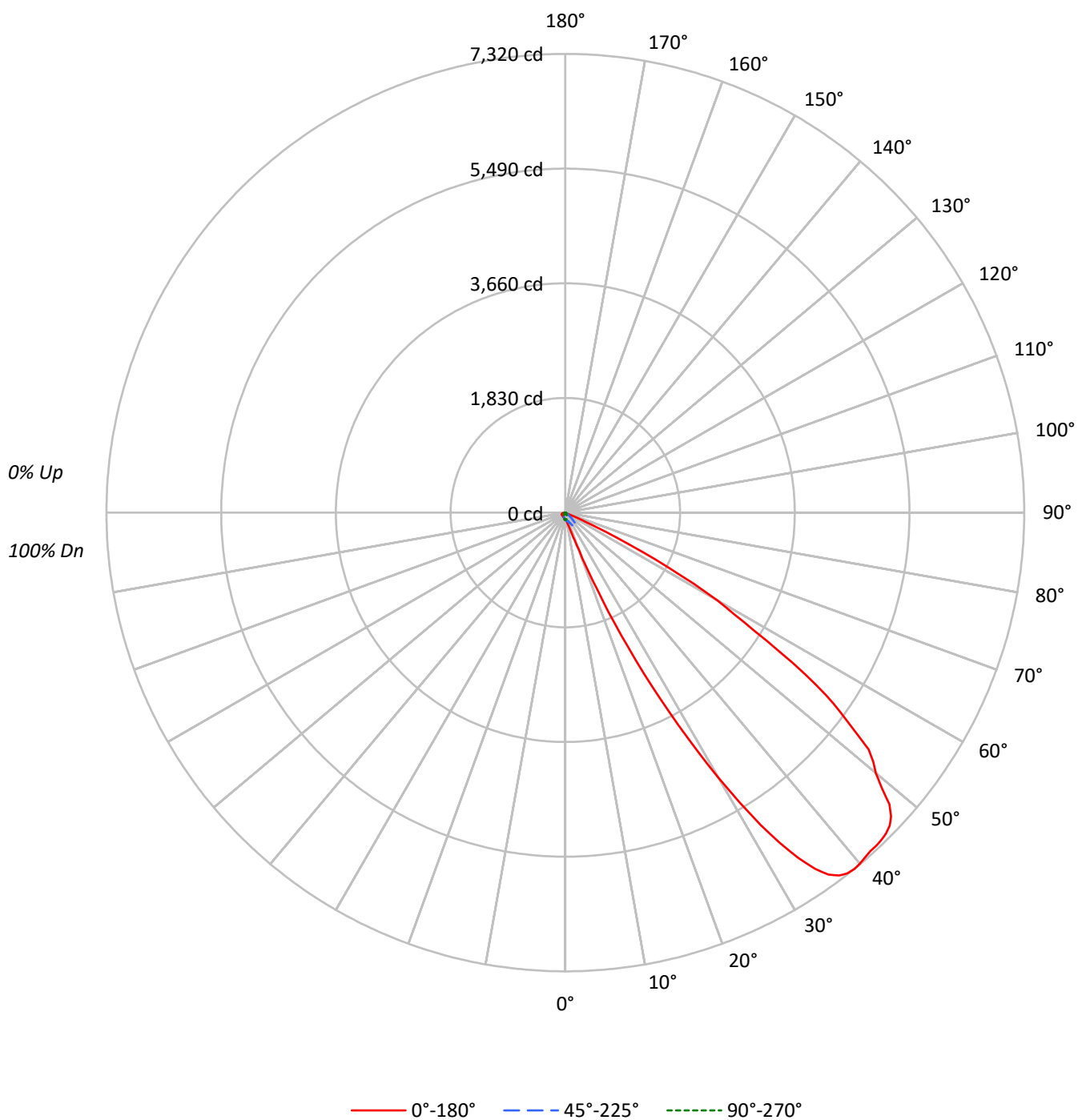
Lumens per Lamp: N/A
Luminaire Lumens: 2262.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	20029	20029	20029	20029	20029
5°	22267	21541	19760	17962	17599
10°	26879	22892	18170	16351	15984
15°	44075	24819	15548	14442	14817
20°	116508	29324	12939	12939	14094
25°	449223	36314	10261	11839	13815
30°	969151	48324	8253	11574	13642
35°	1458743	57208	6980	11353	13981
40°	1643462	57442	6070	11668	14951
45°	1762227	44523	5578	12154	16197
50°	1732093	27838	5010	12807	17817
55°	1523795	13722	4984	14352	19967
60°	964516	2859	5718	15741	22182
65°	197237	856	5909	16912	24532
70°	4179	1057	6294	18833	28249
75°	4126	2795	6920	20761	31807
80°	4166	2083	8232	22712	37093
85°	4150	4150	16401	24700	41101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1794074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.5
10°-20°	35.8	1.6
20°-30°	175.7	7.8
30°-40°	571.5	25.3
40°-50°	787.8	34.8
50°-60°	548.8	24.3
60°-70°	104.0	4.6
70°-80°	18.8	0.8
80°-90°	8.7	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°	222.4	9.8
0°-40°	793.9	35.1
0°-60°	2130.5	94.2
0°-90°	2262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2262.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	116	116	116	116	116	
5°	129	125	114	104	102	13
15°	247	139	87	81	83	90
25°	2364	191	54	62	73	1217
35°	6938	272	33	54	66	4193
45°	7235	183	23	50	66	5502
55°	5075	46	17	48	66	4338
65°	484	2	14	42	60	856
75°	6	4	10	31	48	6
85°	2	2	8	12	21	2
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°	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3
2.5°	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	118.4	116.3
5°	128.8	128.8	128.8	128.8	126.7	126.7	126.7	124.6	124.6	120.5	114.3
7.5°	137.1	137.1	137.1	137.1	135.0	132.9	130.9	130.9	128.8	118.4	110.1
10°	153.7	153.7	151.6	149.6	147.5	143.3	141.3	137.1	130.9	116.3	103.9
12.5°	187.0	182.8	180.7	176.6	170.3	162.0	153.7	147.5	132.9	112.2	97.6
15°	247.2	243.0	234.7	222.3	209.8	193.2	178.7	164.1	139.2	105.9	87.2
17.5°	353.1	340.7	328.2	307.4	276.3	247.2	216.0	189.0	147.5	99.7	78.9
20°	635.7	627.4	552.6	494.4	400.9	334.5	272.1	226.4	160.0	93.5	70.6
22.5°	1310.8	1223.5	1101.0	901.6	702.1	517.3	376.0	284.6	172.4	85.2	62.3
25°	2364.0	2226.9	1963.1	1578.8	1165.4	824.7	544.3	371.8	191.1	76.9	54.0
27.5°	3579.2	3440.1	3030.8	2501.1	1826.0	1244.3	776.9	492.3	216.0	68.6	47.8
30°	4873.4	4755.0	4235.7	3502.4	2573.8	1742.9	1040.7	614.9	243.0	60.2	41.5
31°	5394.8	5243.2	4682.3	3901.2	2924.9	1948.5	1146.7	666.8	253.4	58.2	39.5
32°	5874.7	5702.3	5120.6	4283.5	3209.5	2170.8	1263.0	712.5	261.7	54.0	37.4
33°	6288.1	6086.6	5525.7	4644.9	3523.2	2378.5	1383.5	756.1	268.0	49.9	35.3
34°	6639.2	6464.7	5862.2	5008.4	3801.5	2578.0	1501.9	799.8	272.1	47.8	33.2
35°	6938.3	6780.4	6184.2	5284.7	4073.6	2771.2	1609.9	841.3	272.1	43.6	33.2
36°	7139.8	7002.7	6462.6	5567.3	4302.2	2935.3	1701.3	878.7	272.1	39.5	31.2
37°	7249.9	7116.9	6645.4	5799.9	4526.5	3097.3	1784.4	907.8	270.1	37.4	29.1
38°	7306.0	7189.6	6780.4	5988.9	4682.3	3213.6	1857.1	930.6	268.0	33.2	29.1
39°	7320.5	7222.9	6865.6	6126.1	4834.0	3330.0	1909.1	943.1	261.7	31.2	27.0
40°	7310.1	7225.0	6911.3	6248.6	4950.3	3421.4	1946.5	947.3	255.5	27.0	27.0
41°	7289.4	7222.9	6944.5	6333.8	5043.8	3479.5	1961.0	939.0	247.2	22.9	24.9
42°	7270.7	7198.0	6959.1	6392.0	5108.2	3508.6	1958.9	922.3	234.7	20.8	24.9
43°	7270.7	7187.6	6961.1	6429.3	5139.3	3510.7	1934.0	891.2	218.1	18.7	22.9
44°	7258.2	7181.3	6971.5	6454.3	5147.6	3492.0	1894.5	857.9	199.4	16.6	22.9
45°	7235.3	7154.3	6969.5	6456.3	5133.1	3446.3	1830.1	814.3	182.8	12.5	22.9
46°	7191.7	7119.0	6950.8	6441.8	5089.5	3379.8	1753.3	770.7	164.1	10.4	20.8
47°	7104.5	7048.4	6900.9	6392.0	5023.0	3282.2	1661.9	720.8	149.6	8.3	20.8
48°	6954.9	6915.4	6815.7	6281.9	4896.3	3161.7	1564.2	666.8	135.0	8.3	20.8
49°	6680.7	6649.5	6591.4	6105.3	4734.2	3014.2	1458.3	606.6	120.5	6.2	20.8
50°	6464.7	6431.4	6313.0	5808.2	4501.6	2827.2	1342.0	546.3	103.9	4.2	18.7
51°	6321.3	6267.3	6080.4	5463.4	4163.0	2578.0	1215.2	486.1	87.2	4.2	18.7
52°	6140.6	6059.6	5826.9	5153.9	3853.5	2328.7	1078.1	425.9	76.9	4.2	18.7
53°	5762.5	5733.4	5502.9	4821.5	3543.9	2089.8	936.9	376.0	66.5	4.2	18.7
54°	5432.2	5388.6	5074.9	4360.3	3207.4	1823.9	791.5	332.4	56.1	4.2	18.7
55°	5074.9	4989.8	4711.4	3971.9	2812.7	1578.8	652.3	286.7	45.7	4.2	16.6
56°	4624.1	4549.4	4250.2	3556.4	2449.2	1329.5	546.3	234.7	35.3	4.2	16.6
57°	4075.7	4007.2	3776.6	3045.4	2071.1	1086.4	444.5	189.0	27.0	4.2	16.6
58°	3546.0	3469.1	3205.3	2555.1	1672.3	862.1	371.8	153.7	20.8	4.2	16.6
59°	3138.8	3035.0	2694.3	2145.9	1308.7	654.4	295.0	122.6	14.5	4.2	16.6
60°	2800.2	2715.1	2361.9	1786.5	1026.2	481.9	218.1	93.5	8.3	4.2	16.6
62.5°	1622.4	1599.5	1281.7	920.3	484.0	224.4	108.0	43.6	4.2	6.2	16.6
65°	484.0	421.7	328.2	195.3	124.6	74.8	39.5	14.5	2.1	6.2	14.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	14.5	14.5	14.5	14.5	14.5	14.5	8.3	4.2	2.1	6.2	14.5
70°	8.3	6.2	6.2	6.2	6.2	4.2	4.2	2.1	2.1	6.2	12.5
72.5°	6.2	6.2	6.2	6.2	4.2	4.2	4.2	2.1	4.2	6.2	10.4
75°	6.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	4.2	6.2	10.4
77.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	4.2	6.2	10.4
80°	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	6.2	6.2
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°	116.3	116.3	116.3	116.3
2.5°	112.2	110.1	108.0	108.0
5°	108.0	103.9	103.9	101.8
7.5°	101.8	97.6	97.6	97.6
10°	95.6	93.5	93.5	91.4
12.5°	87.2	87.2	87.2	87.2
15°	81.0	81.0	83.1	83.1
17.5°	72.7	74.8	78.9	81.0
20°	66.5	70.6	74.8	76.9
22.5°	62.3	66.5	72.7	74.8
25°	56.1	62.3	70.6	72.7
27.5°	51.9	60.2	66.5	70.6
30°	47.8	58.2	64.4	68.6
31°	47.8	56.1	64.4	68.6
32°	45.7	54.0	64.4	66.5
33°	45.7	54.0	64.4	66.5
34°	43.6	54.0	62.3	66.5
35°	43.6	54.0	62.3	66.5
36°	41.5	51.9	62.3	66.5
37°	41.5	51.9	62.3	66.5
38°	39.5	51.9	62.3	66.5
39°	39.5	51.9	62.3	66.5
40°	39.5	51.9	62.3	66.5
41°	37.4	51.9	62.3	66.5
42°	37.4	51.9	62.3	66.5
43°	37.4	49.9	62.3	66.5
44°	37.4	49.9	62.3	66.5
45°	35.3	49.9	62.3	66.5
46°	35.3	49.9	62.3	66.5
47°	35.3	49.9	62.3	66.5
48°	35.3	49.9	62.3	66.5
49°	35.3	49.9	62.3	66.5
50°	33.2	47.8	62.3	66.5
51°	33.2	47.8	62.3	66.5
52°	33.2	47.8	62.3	66.5
53°	33.2	47.8	62.3	66.5
54°	31.2	47.8	62.3	66.5
55°	31.2	47.8	62.3	66.5
56°	31.2	47.8	62.3	64.4
57°	31.2	47.8	60.2	64.4
58°	31.2	45.7	60.2	64.4
59°	31.2	45.7	60.2	64.4
60°	31.2	45.7	60.2	64.4
62.5°	29.1	45.7	58.2	62.3
65°	27.0	41.5	58.2	60.2



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	27.0	39.5	54.0	58.2
70°	24.9	37.4	51.9	56.1
72.5°	20.8	35.3	47.8	51.9
75°	18.7	31.2	43.6	47.8
77.5°	16.6	27.0	39.5	41.5
80°	14.5	22.9	33.2	37.4
82.5°	10.4	16.6	27.0	29.1
85°	8.3	12.5	18.7	20.8
87.5°	6.2	6.2	10.4	10.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)