

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: P1310691

Luminaire Tested: P3SQAS24R309040D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310691
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: P3SQAS24R309040D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

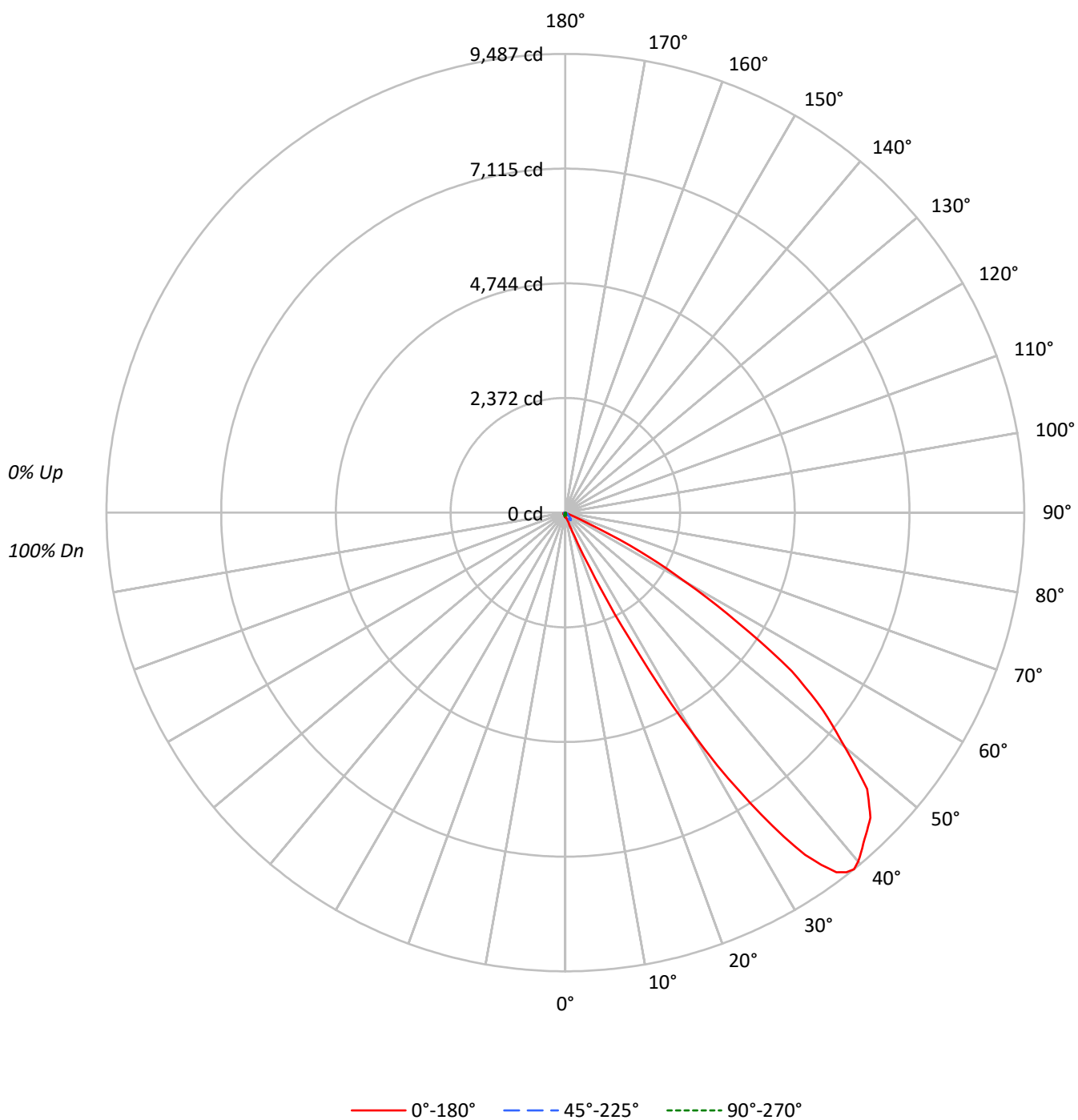
Lumens per Lamp: N/A
Luminaire Lumens: 2466.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	16464	16464	16464	16464	16464
5°	17599	17236	16164	14729	14366
10°	19254	17068	14165	12714	12346
15°	28153	17045	11857	10734	11108
20°	70818	18657	9145	9145	10282
25°	328822	23297	7107	8285	9482
30°	1046789	32216	5369	7855	9506
35°	1816370	39316	4373	7422	9608
40°	2118350	39231	3260	7464	9802
45°	2172479	27815	3532	8086	10619
50°	2020306	15594	2786	8359	12244
55°	1717103	8107	3123	9368	13722
60°	991692	2136	3582	10023	15018
65°	202330	0	4238	11859	16912
70°	3122	1057	5237	13596	19890
75°	2795	1397	5523	13841	23489
80°	2083	2083	8232	16464	26778
85°	0	4150	16401	16401	32802

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2172479 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.4
10°-20°	24.9	1.0
20°-30°	142.2	5.8
30°-40°	664.2	26.9
40°-50°	939.3	38.1
50°-60°	577.9	23.4
60°-70°	88.0	3.6
70°-80°	13.9	0.6
80°-90°	7.0	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°	175.7	7.1
0°-40°	839.9	34.1
0°-60°	2357.1	95.6
0°-90°	2466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2466.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	96	96	96	96	96	
5°	102	100	94	85	83	10
15°	158	96	66	60	62	56
25°	1730	123	37	44	50	1065
35°	8639	187	21	35	46	5185
45°	8920	114	14	33	44	6762
55°	5719	27	10	31	46	4866
65°	496	0	10	29	42	898
75°	4	2	8	21	35	4
85°	0	2	8	8	17	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°	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
2.5°	97.6	97.6	99.7	99.7	97.6	99.7	99.7	99.7	95.6	93.5	89.3
5°	101.8	101.8	101.8	103.9	101.8	101.8	99.7	97.6	93.5	87.2	85.2
7.5°	105.9	105.9	103.9	105.9	103.9	103.9	99.7	95.6	89.3	83.1	78.9
10°	110.1	110.1	108.0	108.0	105.9	105.9	97.6	91.4	81.0	74.8	72.7
12.5°	122.6	122.6	120.5	118.4	114.2	112.2	95.6	85.2	72.7	66.5	64.4
15°	157.9	155.8	151.6	145.4	135.0	132.9	95.6	78.9	66.5	60.2	60.2
17.5°	216.0	214.0	207.7	191.1	172.4	166.2	95.6	70.6	58.2	54.0	54.0
20°	386.4	369.8	338.6	297.0	253.4	230.6	101.8	62.3	49.9	47.8	49.9
21°	504.8	488.2	448.7	380.1	303.3	278.4	105.9	60.2	47.8	45.7	49.9
22°	687.6	668.9	587.9	494.4	384.3	340.7	108.0	56.1	43.6	43.6	47.8
23°	959.7	928.5	791.4	641.9	479.8	417.5	112.2	54.0	41.5	43.6	45.7
24°	1256.7	1229.7	1073.9	849.6	612.8	523.5	116.3	51.9	39.5	39.5	43.6
25°	1730.4	1699.2	1422.9	1071.9	776.9	629.4	122.6	47.8	37.4	37.4	43.6
26°	2343.1	2199.8	1832.1	1381.4	957.6	789.4	128.8	45.7	35.3	37.4	41.5
27°	2924.8	2806.4	2393.0	1771.9	1184.0	970.1	137.1	43.6	33.2	35.3	41.5
28°	3689.2	3523.0	3001.6	2241.4	1491.5	1173.6	145.4	41.5	31.2	35.3	39.5
29°	4545.0	4312.4	3683.0	2769.0	1838.4	1402.1	153.7	39.5	29.1	33.2	39.5
30°	5263.8	5045.7	4416.2	3394.2	2237.2	1703.3	162.0	37.4	27.0	33.2	39.5
31°	6107.1	5776.8	5014.5	3923.9	2579.9	2004.6	170.3	33.2	24.9	31.2	37.4
32°	6790.5	6560.0	5749.8	4522.2	3030.7	2336.9	176.6	31.2	24.9	31.2	37.4
33°	7451.1	7141.6	6358.5	5095.5	3437.9	2677.6	182.8	29.1	22.8	29.1	37.4
34°	8082.6	7798.0	6933.9	5558.7	3822.1	3001.6	187.0	24.9	22.8	29.1	35.3
35°	8639.3	8309.0	7440.7	6011.6	4216.8	3296.6	187.0	22.8	20.8	27.0	35.3
36°	9000.7	8763.9	7881.1	6458.2	4574.1	3577.0	187.0	20.8	18.7	27.0	33.2
37°	9310.3	9034.0	8234.2	6800.9	4837.9	3801.4	187.0	18.7	18.7	27.0	33.2
38°	9437.0	9200.2	8477.3	7104.2	5085.1	4029.9	184.9	16.6	16.6	24.9	33.2
39°	9486.8	9274.9	8660.1	7322.3	5267.9	4183.6	180.7	14.5	16.6	24.9	33.2
40°	9422.4	9262.5	8753.5	7463.6	5413.3	4295.8	174.5	12.5	14.5	24.9	33.2
42.5°	9156.5	9050.6	8732.8	7604.8	5538.0	4378.9	151.6	8.3	14.5	22.8	33.2
45°	8919.7	8803.4	8523.0	7457.3	5375.9	4214.7	114.2	4.2	14.5	22.8	33.2
47.5°	8460.7	8388.0	8167.8	7081.4	5020.7	3845.0	81.0	2.1	12.5	20.8	31.2
50°	7540.4	7471.9	7181.1	6148.7	4318.6	3250.9	58.2	2.1	10.4	20.8	31.2
52.5°	6715.8	6643.1	6225.5	5112.1	3317.4	2382.6	37.4	2.1	10.4	20.8	31.2
55°	5718.7	5592.0	5043.6	3880.3	2351.5	1597.4	27.0	2.1	10.4	18.7	31.2
57.5°	4233.4	4048.6	3558.3	2646.4	1354.4	866.2	14.5	2.1	10.4	18.7	31.2
60°	2879.1	2769.0	2226.8	1395.9	577.5	365.6	6.2	2.1	10.4	18.7	29.1
62.5°	1744.9	1605.7	1119.6	594.1	249.3	166.2	0.0	4.2	10.4	18.7	29.1
65°	496.5	440.4	292.9	135.0	70.6	54.0	0.0	4.2	10.4	18.7	29.1
67.5°	16.6	16.6	16.6	14.5	10.4	10.4	2.1	4.2	10.4	18.7	27.0
70°	6.2	6.2	6.2	4.2	4.2	2.1	2.1	4.2	10.4	16.6	27.0
72.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	4.2	8.3	14.5	24.9
75°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	6.2	8.3	14.5	20.8
77.5°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	6.2	8.3	12.5	20.8
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3	12.5	16.6



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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	12.5
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	4.2
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):

	157.5°	180°
0°	95.6	95.6
2.5°	89.3	89.3
5°	83.1	83.1
7.5°	76.9	76.9
10°	70.6	70.6
12.5°	66.5	66.5
15°	60.2	62.3
17.5°	56.1	58.2
20°	54.0	56.1
21°	54.0	56.1
22°	51.9	54.0
23°	51.9	54.0
24°	49.9	51.9
25°	47.8	49.9
26°	47.8	49.9
27°	47.8	49.9
28°	45.7	49.9
29°	45.7	47.8
30°	45.7	47.8
31°	43.6	47.8
32°	43.6	47.8
33°	43.6	45.7
34°	41.5	45.7
35°	41.5	45.7
36°	41.5	45.7
37°	41.5	43.6
38°	41.5	45.7
39°	41.5	43.6
40°	41.5	43.6
42.5°	41.5	43.6
45°	41.5	43.6
47.5°	41.5	45.7
50°	41.5	45.7
52.5°	41.5	45.7
55°	41.5	45.7
57.5°	41.5	43.6
60°	41.5	43.6
62.5°	39.5	43.6
65°	39.5	41.5
67.5°	39.5	41.5
70°	37.4	39.5
72.5°	35.3	37.4
75°	31.2	35.3
77.5°	29.1	31.2
80°	24.9	27.0



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	20.8	20.8
85°	14.5	16.6
87.5°	8.3	8.3
90°	0.0	0.0

(END OF REPORT)