

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: P1317245

Luminaire Tested: P3SQAS17R259830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R259830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

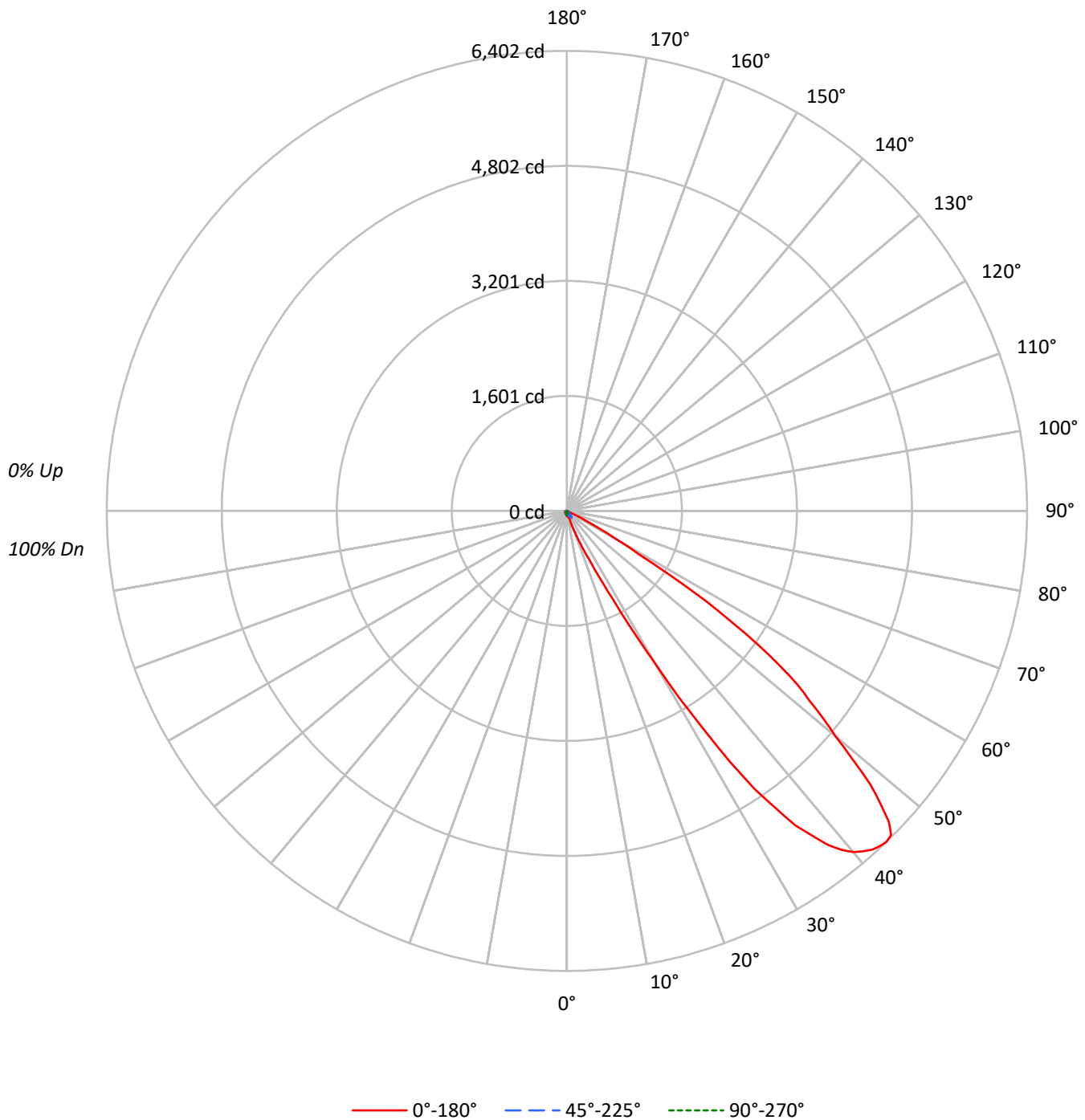
Lumens per Lamp: N/A
Luminaire Lumens: 1335.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
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	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11728	11728	11728	11728	11728
5°	13398	12793	11376	10148	9958
10°	13361	12119	9653	8429	8429
15°	14870	10466	7542	7114	7542
20°	52527	10337	5810	6030	6671
25°	151128	13169	4694	5587	6480
30°	482189	20324	3739	5369	6543
35°	1056124	23968	3217	5193	6665
40°	1393191	21650	2630	5283	7127
45°	1553667	15174	2582	5724	7721
50°	1307824	7877	2519	5975	8493
55°	977800	3183	2462	6696	9518
60°	302664	792	2411	7268	10506
65°	25836	0	2853	7661	11492
70°	1762	604	2971	8862	12991
75°	1530	799	3926	9382	14839
80°	1190	1190	5852	10513	17456
85°	2371	2371	9287	11659	18575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1553667 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.5
10°-20°	15.7	1.2
20°-30°	73.8	5.5
30°-40°	355.6	26.6
40°-50°	557.4	41.8
50°-60°	285.7	21.4
60°-70°	26.9	2.0
70°-80°	9.1	0.7
80°-90°	4.5	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°	95.7	7.2
0°-40°	451.3	33.8
0°-60°	1294.4	97.0
0°-90°	1335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	78	74	66	59	58	7
15°	83	59	42	40	42	35
25°	795	69	25	29	34	493
35°	5023	114	15	25	32	3049
45°	6379	62	11	24	32	4668
55°	3256	11	8	22	32	2711
65°	63	0	7	19	28	199
75°	2	1	6	14	22	3
85°	1	1	5	6	9	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
2.5°	74.0	74.0	74.0	74.0	74.0	74.0	72.8	72.8	74.0	72.8	72.8
5°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	76.4	76.4	76.4	74.0
7.5°	78.7	77.5	77.5	77.5	77.5	77.5	77.5	77.5	76.4	76.4	72.8
10°	76.4	76.4	76.4	76.4	75.2	75.2	75.2	74.0	74.0	74.0	69.3
12.5°	76.4	76.4	76.4	76.4	75.2	75.2	74.0	74.0	72.8	71.7	63.4
15°	83.4	83.4	83.4	82.2	81.1	79.9	78.7	77.5	76.4	74.0	58.7
17.5°	122.2	118.7	117.5	112.8	106.9	101.0	96.3	91.6	86.9	83.4	56.4
20°	286.6	285.5	279.6	265.5	250.2	232.6	215.0	195.0	166.8	148.0	56.4
22.5°	496.9	489.9	479.3	468.7	441.7	410.0	377.1	339.5	303.1	264.3	59.9
25°	795.3	811.8	776.5	748.3	701.3	643.8	581.5	529.8	464.0	402.9	69.3
27.5°	1382.7	1393.3	1324.0	1232.3	1123.1	1002.1	884.6	796.5	686.1	585.0	86.9
30°	2424.7	2435.3	2319.0	2124.0	1898.4	1699.9	1430.9	1194.7	977.4	809.4	102.2
31°	3026.2	2944.0	2808.9	2619.7	2334.3	2034.7	1711.6	1426.2	1151.3	930.4	106.9
32°	3549.0	3541.9	3384.5	3097.9	2811.2	2441.2	2040.6	1668.2	1331.0	1052.6	110.4
33°	4165.7	4118.7	3896.7	3626.5	3247.1	2874.7	2357.8	1932.5	1515.5	1188.9	112.8
34°	4660.3	4533.4	4441.8	4132.8	3732.2	3257.6	2704.3	2212.1	1745.7	1320.4	114.0
35°	5023.3	4996.3	4817.7	4529.9	4122.3	3637.1	3077.9	2502.3	1938.4	1473.2	114.0
36°	5407.5	5324.1	5150.2	4889.4	4492.3	3990.7	3363.4	2753.7	2162.7	1610.6	112.8
37°	5648.3	5598.9	5426.3	5157.2	4768.4	4289.1	3682.9	3019.2	2341.3	1748.1	110.4
38°	5896.2	5796.3	5626.0	5368.7	4986.9	4537.0	3914.3	3223.6	2505.8	1869.1	106.9
39°	6067.7	5964.3	5790.4	5534.3	5160.8	4714.3	4097.6	3397.4	2649.1	1959.5	102.2
40°	6196.9	6097.0	5920.8	5657.7	5288.8	4854.1	4250.3	3551.3	2768.9	2038.2	96.3
41°	6276.8	6184.0	6008.9	5747.0	5376.9	4934.0	4350.2	3651.2	2850.0	2091.1	90.5
42°	6343.8	6248.6	6070.0	5802.2	5431.0	5002.2	4411.3	3714.6	2905.2	2118.1	85.8
43°	6381.3	6286.2	6112.3	5838.6	5463.8	5033.9	4444.1	3744.0	2924.0	2114.6	77.5
44°	6402.5	6303.8	6128.8	5855.0	5477.9	5042.1	4446.5	3738.1	2911.1	2086.4	70.5
45°	6379.0	6281.5	6112.3	5838.6	5453.3	5016.3	4423.0	3706.4	2861.7	2031.2	62.3
46°	6226.3	6151.1	5996.0	5744.6	5375.7	4950.5	4363.1	3645.3	2785.4	1963.0	52.9
47°	5957.3	5897.3	5747.0	5560.2	5226.5	4829.5	4252.7	3529.0	2678.5	1860.8	42.3
48°	5676.5	5588.4	5448.6	5257.1	4975.1	4612.1	4070.6	3358.7	2516.4	1726.9	37.6
49°	5261.8	5210.1	5086.7	4872.9	4639.2	4319.6	3813.3	3140.2	2317.8	1581.2	32.9
50°	4881.2	4845.9	4673.2	4515.8	4267.9	3969.5	3464.4	2852.3	2071.1	1400.3	29.4
51°	4583.9	4541.7	4417.1	4220.9	3956.6	3610.1	3134.3	2478.8	1788.0	1185.3	23.5
52°	4273.8	4250.3	4139.9	3937.8	3678.2	3332.8	2813.6	2161.6	1513.1	1002.1	18.8
53°	4020.1	3986.0	3850.9	3671.2	3390.4	3033.3	2465.8	1866.7	1281.7	842.3	16.4
54°	3650.0	3635.9	3549.0	3361.0	3056.7	2667.9	2151.0	1571.8	1069.0	714.3	14.1
55°	3256.5	3209.5	3121.4	2972.2	2692.6	2329.6	1786.8	1302.8	864.6	601.5	10.6
56°	2777.2	2774.8	2617.4	2492.9	2245.0	1859.7	1427.3	1017.3	702.5	501.6	9.4
57°	2319.0	2245.0	2093.4	1970.1	1703.4	1410.9	1059.6	762.4	549.8	406.5	7.0
58°	1715.2	1676.4	1636.5	1455.5	1208.8	999.7	756.6	535.7	406.5	310.1	4.7
59°	1164.2	1163.0	1116.0	978.6	836.4	622.6	472.3	364.2	279.6	227.9	3.5
60°	878.7	857.6	763.6	673.1	526.3	393.5	279.6	215.0	173.9	146.8	2.3
62.5°	307.8	319.5	280.8	232.6	177.4	145.7	111.6	90.5	74.0	59.9	0.0
65°	63.4	69.3	59.9	56.4	44.6	38.8	34.1	29.4	24.7	21.1	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	8.2	7.0	7.0	7.0	5.9	5.9	5.9	5.9	4.7	4.7	1.2
70°	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3	1.2
72.5°	3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3
85°	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	68.1	68.1	68.1	68.1	68.1	68.1
2.5°	71.7	69.3	65.8	64.6	63.4	63.4
5°	70.5	65.8	62.3	58.7	57.6	57.6
7.5°	67.0	61.1	56.4	54.0	52.9	51.7
10°	63.4	55.2	50.5	48.2	48.2	48.2
12.5°	56.4	49.3	44.6	43.5	44.6	44.6
15°	50.5	42.3	39.9	39.9	41.1	42.3
17.5°	43.5	37.6	35.2	36.4	37.6	38.8
20°	38.8	31.7	31.7	32.9	36.4	36.4
22.5°	34.1	28.2	28.2	31.7	34.1	35.2
25°	30.5	24.7	25.8	29.4	32.9	34.1
27.5°	25.8	21.1	23.5	28.2	31.7	32.9
30°	22.3	18.8	22.3	27.0	30.5	32.9
31°	21.1	17.6	22.3	25.8	30.5	32.9
32°	18.8	17.6	21.1	25.8	30.5	31.7
33°	17.6	16.4	21.1	25.8	30.5	31.7
34°	16.4	15.3	20.0	25.8	30.5	31.7
35°	14.1	15.3	20.0	24.7	29.4	31.7
36°	12.9	14.1	20.0	24.7	29.4	31.7
37°	11.7	14.1	18.8	24.7	29.4	31.7
38°	10.6	12.9	18.8	24.7	29.4	31.7
39°	9.4	12.9	17.6	24.7	29.4	31.7
40°	8.2	11.7	17.6	23.5	29.4	31.7
41°	8.2	11.7	17.6	23.5	29.4	31.7
42°	7.0	11.7	17.6	23.5	29.4	31.7
43°	5.9	10.6	17.6	23.5	29.4	31.7
44°	4.7	10.6	16.4	23.5	29.4	31.7
45°	4.7	10.6	16.4	23.5	29.4	31.7
46°	3.5	9.4	16.4	23.5	29.4	31.7
47°	2.3	9.4	16.4	22.3	29.4	31.7
48°	2.3	9.4	16.4	22.3	29.4	31.7
49°	2.3	9.4	15.3	22.3	29.4	31.7
50°	2.3	9.4	15.3	22.3	29.4	31.7
51°	1.2	8.2	15.3	22.3	29.4	31.7
52°	1.2	8.2	15.3	22.3	29.4	32.9
53°	1.2	8.2	15.3	22.3	29.4	31.7
54°	1.2	8.2	14.1	22.3	29.4	31.7
55°	1.2	8.2	14.1	22.3	29.4	31.7
56°	1.2	7.0	14.1	21.1	29.4	31.7
57°	2.3	7.0	14.1	21.1	29.4	30.5
58°	2.3	7.0	14.1	21.1	28.2	30.5
59°	2.3	7.0	14.1	21.1	28.2	30.5
60°	2.3	7.0	12.9	21.1	28.2	30.5
62.5°	2.3	7.0	12.9	20.0	27.0	29.4
65°	2.3	7.0	11.7	18.8	27.0	28.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.3	5.9	11.7	17.6	25.8	27.0
70°	3.5	5.9	10.6	17.6	24.7	25.8
72.5°	3.5	5.9	10.6	15.3	22.3	24.7
75°	3.5	5.9	9.4	14.1	21.1	22.3
77.5°	3.5	5.9	8.2	12.9	18.8	20.0
80°	4.7	5.9	7.0	10.6	16.4	17.6
82.5°	4.7	5.9	5.9	8.2	12.9	14.1
85°	3.5	4.7	4.7	5.9	8.2	9.4
87.5°	3.5	4.7	3.5	2.3	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)