

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: P1316403

Luminaire Tested: P3SQAS17R359827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R359827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

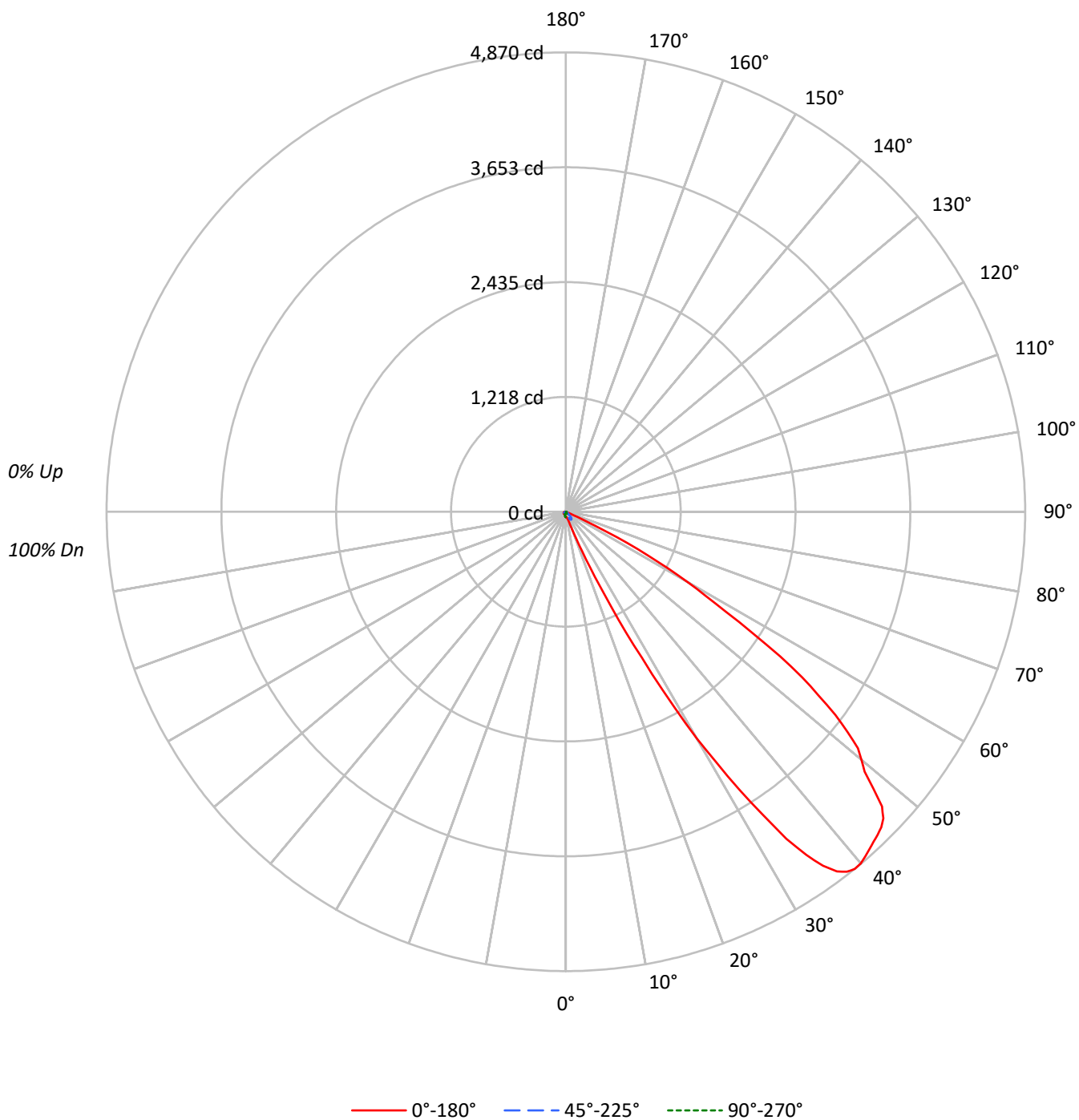
Lumens per Lamp: N/A
Luminaire Lumens: 1213.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	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	61	52	45	58	51	45		56	50	44		55	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	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38	31	26	24
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34	27	22	20
10	48	34	25	19	46	33	25	19	32	25	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9610	9610	9610	9610	9610
5°	10407	10217	9457	8523	8333
10°	10912	9951	8429	7275	7275
15°	15619	9753	6829	6240	6437
20°	39129	10428	5425	5425	6011
25°	181646	13321	4162	4998	5625
30°	552230	18077	3261	4574	5668
35°	933299	20940	2754	4373	5529
40°	1094000	20684	2226	4429	5913
45°	1152134	14662	1875	4798	6406
50°	1096668	8788	1768	4984	7047
55°	918949	3603	1982	5585	8227
60°	514463	758	2273	6407	9059
65°	88797	448	2241	7131	10269
70°	1662	554	2769	7704	11582
75°	1464	732	3660	8717	13109
80°	1091	1091	4364	9819	15174
85°	0	2174	8695	10868	17389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1160285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.4
10°-20°	14.3	1.2
20°-30°	74.4	6.1
30°-40°	321.4	26.5
40°-50°	458.5	37.8
50°-60°	284.0	23.4
60°-70°	43.2	3.6
70°-80°	8.1	0.7
80°-90°	4.1	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°	93.8	7.7
0°-40°	415.2	34.2
0°-60°	1157.7	95.4
0°-90°	1213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	60	59	55	49	48	6
15°	88	55	38	35	36	32
25°	956	70	22	26	30	572
35°	4439	100	13	21	26	2665
45°	4730	60	8	20	26	3574
55°	3060	12	7	19	27	2607
65°	218	1	6	18	25	445
75°	2	1	6	13	20	2
85°	0	1	4	6	9	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
2.5°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	55.8	54.7
5°	60.2	60.2	59.1	59.1	59.1	59.1	59.1	59.1	56.9	54.7	51.5
7.5°	61.3	61.3	60.2	60.2	60.2	60.2	59.1	58.0	55.8	51.5	48.2
10°	62.4	62.4	62.4	62.4	61.3	60.2	59.1	56.9	53.7	48.2	44.9
12.5°	70.1	70.1	69.0	66.8	64.6	62.4	60.2	55.8	49.3	43.8	40.5
15°	87.6	86.5	84.3	81.0	76.6	71.2	66.8	54.7	44.9	38.3	36.1
17.5°	122.6	120.4	117.2	106.2	96.4	86.5	77.7	54.7	40.5	33.9	31.8
20°	213.5	214.6	191.6	165.3	143.4	119.4	97.5	56.9	36.1	29.6	28.5
22.5°	445.7	428.1	373.4	309.9	236.5	182.9	138.0	62.4	31.8	25.2	25.2
25°	955.9	889.1	756.6	571.6	403.0	285.8	200.4	70.1	28.5	21.9	23.0
27.5°	1745.4	1685.2	1419.1	1068.7	709.6	431.4	271.6	79.9	25.2	18.6	20.8
30°	2776.9	2610.5	2263.3	1752.0	1185.9	660.3	364.6	90.9	20.8	16.4	19.7
31°	3098.8	3022.2	2599.5	2026.8	1389.5	784.0	404.1	94.2	19.7	16.4	18.6
32°	3481.0	3345.2	2966.3	2328.0	1596.5	894.6	451.1	97.5	18.6	14.2	18.6
33°	3822.6	3691.2	3230.2	2592.9	1805.6	1020.5	501.5	98.5	16.4	14.2	17.5
34°	4181.8	4002.2	3545.6	2870.0	2020.3	1156.3	547.5	99.6	15.3	13.1	17.5
35°	4439.1	4259.5	3817.1	3089.0	2205.3	1276.8	600.1	99.6	14.2	13.1	16.4
36°	4638.4	4480.7	4051.5	3314.5	2389.3	1385.2	641.7	99.6	12.0	12.0	16.4
37°	4775.3	4625.2	4209.1	3508.4	2529.4	1481.5	678.9	99.6	10.9	12.0	16.4
38°	4842.1	4717.2	4361.4	3649.6	2665.2	1557.1	708.5	97.5	9.9	10.9	15.3
39°	4870.5	4768.7	4454.4	3769.0	2767.0	1622.8	730.4	95.3	8.8	10.9	15.3
40°	4866.1	4777.5	4507.0	3851.1	2849.2	1667.7	742.4	92.0	7.7	9.9	15.3
41°	4841.0	4764.3	4534.4	3921.2	2898.4	1698.3	745.7	88.7	6.6	9.9	14.2
42°	4812.5	4742.4	4543.1	3958.4	2930.2	1708.2	736.9	84.3	6.6	8.8	14.2
43°	4782.9	4718.3	4543.1	3970.4	2937.9	1701.6	722.7	76.6	5.5	8.8	14.2
44°	4758.8	4697.5	4528.9	3967.2	2921.4	1676.4	696.4	67.9	4.4	8.8	14.2
45°	4730.4	4670.1	4510.3	3946.4	2889.7	1633.7	663.6	60.2	3.3	7.7	14.2
46°	4680.0	4632.9	4477.4	3903.6	2839.3	1574.6	622.0	54.7	2.2	7.7	13.1
47°	4582.5	4542.0	4413.9	3840.1	2772.5	1504.5	579.3	49.3	2.2	7.7	13.1
48°	4386.5	4385.4	4286.9	3721.9	2666.3	1416.9	534.4	43.8	2.2	7.7	13.1
49°	4197.1	4177.4	4054.8	3513.8	2514.1	1311.8	487.3	39.4	1.1	7.7	13.1
50°	4093.1	4050.4	3848.9	3268.6	2319.2	1166.2	436.9	32.8	1.1	6.6	13.1
51°	3984.7	3923.4	3685.7	3047.4	2087.1	1026.0	382.2	26.3	1.1	6.6	12.0
52°	3788.7	3730.6	3464.6	2836.0	1861.5	882.6	329.6	21.9	1.1	6.6	13.1
53°	3577.3	3494.1	3205.0	2603.9	1663.3	755.5	275.9	18.6	1.1	6.6	12.0
54°	3311.3	3274.0	2942.2	2319.2	1431.2	632.9	226.7	15.3	1.1	6.6	12.0
55°	3060.5	3005.8	2660.8	2027.9	1220.9	519.0	189.4	12.0	1.1	6.6	12.0
56°	2740.8	2658.6	2335.6	1760.7	1007.4	418.3	159.9	9.9	1.1	6.6	12.0
57°	2359.7	2272.1	2017.0	1464.0	790.6	318.6	133.6	7.7	1.1	6.6	12.0
58°	1996.2	1920.6	1646.9	1130.0	595.7	221.2	110.6	5.5	1.1	5.5	12.0
59°	1724.6	1641.4	1369.8	869.4	413.9	163.2	83.2	4.4	1.1	6.6	12.0
60°	1493.6	1386.3	1102.7	673.4	295.6	117.2	61.3	2.2	2.2	6.6	12.0
62.5°	860.7	759.9	526.7	273.7	121.5	60.2	29.6	1.1	2.2	6.6	12.0
65°	217.9	193.8	125.9	59.1	33.9	20.8	10.9	1.1	2.2	5.5	10.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	7.7	7.7	7.7	6.6	5.5	4.4	2.2	1.1	2.2	5.5	10.9
70°	3.3	3.3	3.3	2.2	2.2	1.1	1.1	1.1	2.2	5.5	9.9
72.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.3	5.5	8.8
75°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.3	5.5	8.8
77.5°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	3.3	4.4	7.7
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.3	4.4	6.6
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.3	4.4	5.5
85°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	3.3	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	4.4	3.3
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):

	135°	157.5°	180°
0°	55.8	55.8	55.8
2.5°	52.6	52.6	52.6
5°	49.3	49.3	48.2
7.5°	46.0	44.9	44.9
10°	41.6	41.6	41.6
12.5°	38.3	38.3	38.3
15°	35.0	36.1	36.1
17.5°	31.8	33.9	33.9
20°	29.6	31.8	32.8
22.5°	27.4	29.6	30.7
25°	26.3	28.5	29.6
27.5°	24.1	27.4	29.6
30°	23.0	26.3	28.5
31°	23.0	26.3	27.4
32°	21.9	26.3	27.4
33°	21.9	26.3	27.4
34°	21.9	25.2	27.4
35°	20.8	25.2	26.3
36°	20.8	25.2	26.3
37°	20.8	25.2	27.4
38°	20.8	25.2	26.3
39°	19.7	25.2	26.3
40°	19.7	25.2	26.3
41°	19.7	25.2	26.3
42°	19.7	25.2	26.3
43°	19.7	25.2	26.3
44°	19.7	24.1	26.3
45°	19.7	24.1	26.3
46°	19.7	25.2	26.3
47°	19.7	25.2	27.4
48°	19.7	24.1	26.3
49°	18.6	24.1	26.3
50°	18.6	24.1	26.3
51°	18.6	25.2	27.4
52°	18.6	25.2	27.4
53°	18.6	25.2	27.4
54°	18.6	25.2	26.3
55°	18.6	25.2	27.4
56°	18.6	25.2	26.3
57°	18.6	25.2	26.3
58°	18.6	24.1	26.3
59°	18.6	24.1	26.3
60°	18.6	24.1	26.3
62.5°	17.5	24.1	26.3
65°	17.5	23.0	25.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	16.4	23.0	24.1
70°	15.3	21.9	23.0
72.5°	14.2	20.8	21.9
75°	13.1	18.6	19.7
77.5°	10.9	16.4	18.6
80°	9.9	14.2	15.3
82.5°	7.7	12.0	13.1
85°	5.5	8.8	8.8
87.5°	2.2	4.4	4.4
90°	0.0	0.0	0.0

(END OF REPORT)