

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: P1308146

Luminaire Tested: P3SQAS17R259030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308146
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: P3SQAS17R259030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

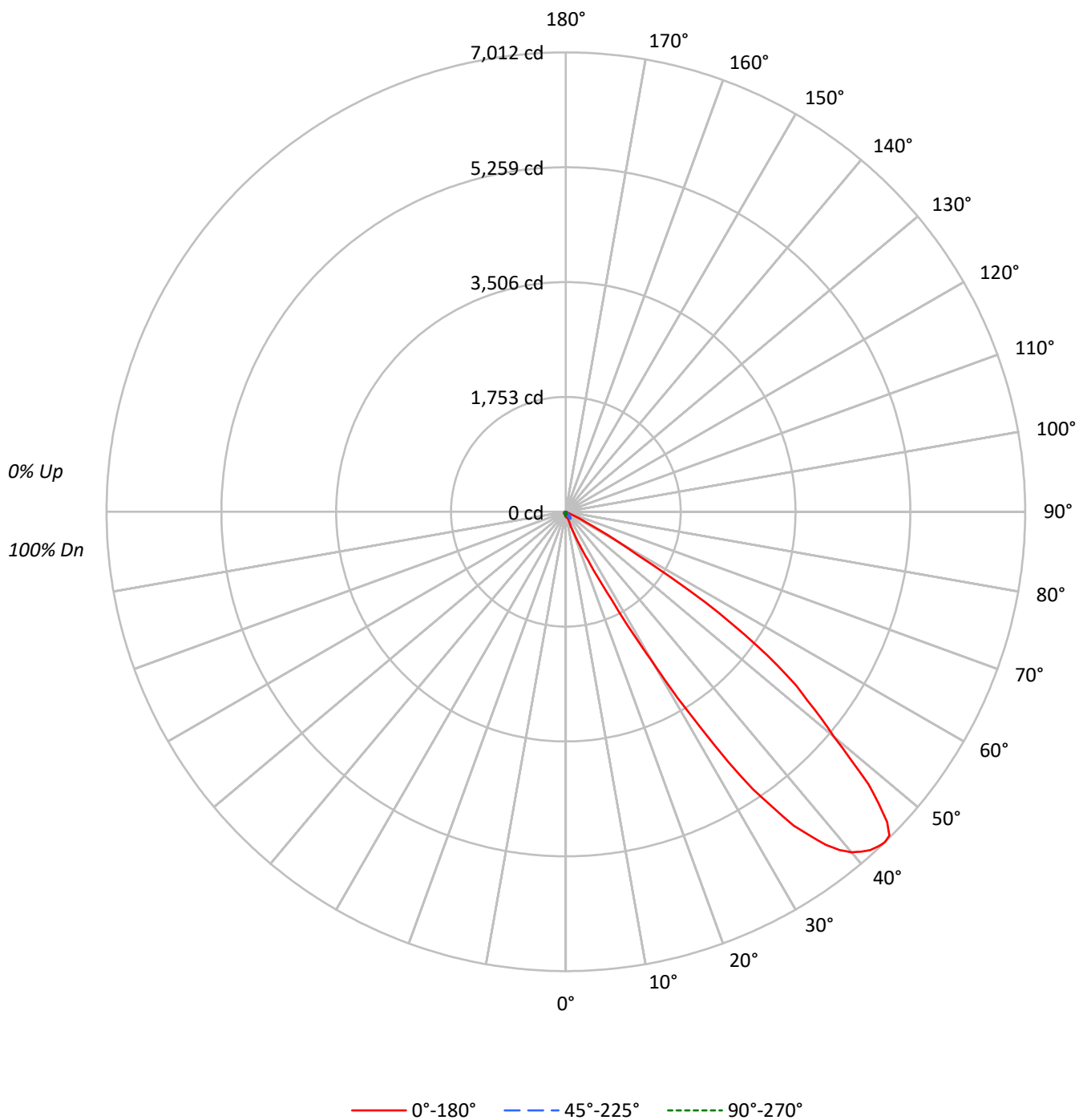
Lumens per Lamp: N/A
Luminaire Lumens: 1462.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	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°	12848	12848	12848	12848	12848
5°	14678	14021	12447	11116	10891
10°	14620	13273	10580	9216	9216
15°	16279	11465	8255	7792	8255
20°	57530	11326	6360	6598	7313
25°	165513	14423	5131	6119	7088
30°	528068	22253	4097	5886	7159
35°	1156600	26239	3511	5677	7296
40°	1525723	23719	2900	5778	7801
45°	1701459	16611	2825	6259	8452
50°	1432224	8627	2760	6538	9297
55°	1070791	3483	2702	7326	10419
60°	331460	896	2652	7991	11504
65°	28322	0	3138	8395	12592
70°	1964	655	3223	9718	14250
75°	1730	865	4259	10247	16236
80°	1289	1289	6347	11505	19142
85°	2569	2569	10078	12647	20353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1701459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.5
10°-20°	17.2	1.2
20°-30°	80.9	5.5
30°-40°	389.4	26.6
40°-50°	610.4	41.8
50°-60°	312.9	21.4
60°-70°	29.5	2.0
70°-80°	9.9	0.7
80°-90°	5.0	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°	104.8	7.2
0°-40°	494.2	33.8
0°-60°	1417.6	97.0
0°-90°	1462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1462.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	85	81	72	64	63	8
15°	91	64	46	44	46	39
25°	871	76	27	32	37	540
35°	5501	125	17	27	35	3339
45°	6986	68	12	26	35	5112
55°	3566	12	9	24	35	2969
65°	70	0	8	21	31	218
75°	3	1	6	15	24	3
85°	1	1	5	6	10	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°	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
2.5°	81.1	81.1	81.1	81.1	81.1	81.1	79.8	79.8	81.1	79.8	79.8
5°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	83.6	83.6	83.6	81.1
7.5°	86.2	84.9	84.9	84.9	84.9	84.9	84.9	84.9	83.6	83.6	79.8
10°	83.6	83.6	83.6	83.6	82.3	82.3	82.3	81.1	81.1	81.1	75.9
12.5°	83.6	83.6	83.6	83.6	82.3	82.3	81.1	81.1	79.8	78.5	69.5
15°	91.3	91.3	91.3	90.1	88.8	87.5	86.2	84.9	83.6	81.1	64.3
17.5°	133.8	129.9	128.7	123.5	117.1	110.6	105.5	100.3	95.2	91.3	61.8
20°	313.9	312.6	306.2	290.8	274.0	254.7	235.4	213.6	182.7	162.1	61.8
22.5°	544.2	536.5	524.9	513.3	483.7	449.0	413.0	371.8	331.9	289.5	65.6
25°	871.0	889.0	850.4	819.5	768.1	705.0	636.8	580.2	508.2	441.3	75.9
27.5°	1514.2	1525.8	1449.9	1349.6	1229.9	1097.4	968.8	872.3	751.3	640.7	95.2
30°	2655.4	2667.0	2539.6	2326.0	2079.0	1861.6	1567.0	1308.4	1070.4	886.4	111.9
31°	3314.1	3224.0	3076.1	2869.0	2556.3	2228.3	1874.5	1561.8	1260.8	1018.9	117.1
32°	3886.6	3878.9	3706.5	3392.6	3078.7	2673.4	2234.7	1826.9	1457.6	1152.7	120.9
33°	4562.0	4510.6	4267.4	3971.5	3556.0	3148.1	2582.1	2116.3	1659.6	1302.0	123.5
34°	5103.6	4964.7	4864.4	4526.0	4087.3	3567.5	2961.6	2422.5	1911.8	1446.1	124.8
35°	5501.2	5471.6	5276.0	4960.8	4514.4	3983.1	3370.7	2740.3	2122.8	1613.3	124.8
36°	5921.9	5830.5	5640.1	5354.5	4919.7	4370.3	3683.3	3015.6	2368.5	1763.8	123.5
37°	6185.6	6131.6	5942.5	5647.8	5222.0	4697.1	4033.3	3306.4	2564.0	1914.4	120.9
38°	6457.1	6347.7	6161.2	5879.4	5461.3	4968.6	4286.7	3530.2	2744.2	2046.9	117.1
39°	6644.9	6531.7	6341.3	6060.8	5651.7	5162.8	4487.4	3720.6	2901.1	2145.9	111.9
40°	6786.4	6677.1	6484.1	6195.9	5791.9	5315.9	4654.6	3889.2	3032.3	2232.1	105.5
41°	6873.9	6772.3	6580.6	6293.7	5888.4	5403.4	4764.0	3998.5	3121.1	2290.0	99.1
42°	6947.2	6843.0	6647.5	6354.1	5947.6	5478.0	4830.9	4068.0	3181.6	2319.6	93.9
43°	6988.4	6884.2	6693.8	6394.0	5983.6	5512.8	4866.9	4100.2	3202.2	2315.7	84.9
44°	7011.6	6903.5	6711.8	6412.0	5999.1	5521.8	4869.5	4093.7	3188.0	2284.9	77.2
45°	6985.8	6879.1	6693.8	6394.0	5972.1	5493.5	4843.8	4059.0	3134.0	2224.4	68.2
46°	6818.6	6736.2	6566.4	6291.1	5887.1	5421.4	4778.2	3992.1	3050.4	2149.8	57.9
47°	6524.0	6458.4	6293.7	6089.1	5723.8	5288.9	4657.2	3864.7	2933.3	2037.9	46.3
48°	6216.5	6120.0	5966.9	5757.2	5448.4	5050.9	4457.8	3678.2	2755.7	1891.2	41.2
49°	5762.3	5705.7	5570.7	5336.5	5080.5	4730.6	4176.1	3438.9	2538.3	1731.7	36.0
50°	5345.5	5306.9	5117.8	4945.4	4673.9	4347.2	3794.0	3123.7	2268.1	1533.5	32.2
51°	5020.0	4973.7	4837.3	4622.5	4333.0	3953.5	3432.5	2714.6	1958.1	1298.1	25.7
52°	4680.4	4654.6	4533.7	4312.4	4028.1	3649.9	3081.2	2367.2	1657.0	1097.4	20.6
53°	4402.5	4365.2	4217.2	4020.4	3712.9	3321.8	2700.4	2044.3	1403.6	922.4	18.0
54°	3997.2	3981.8	3886.6	3680.7	3347.5	2921.7	2355.6	1721.4	1170.7	782.2	15.4
55°	3566.2	3514.8	3418.3	3254.9	2948.7	2551.2	1956.8	1426.8	946.9	658.7	11.6
56°	3041.3	3038.8	2866.4	2730.0	2458.6	2036.6	1563.1	1114.1	769.3	549.3	10.3
57°	2539.6	2458.6	2292.6	2157.5	1865.5	1545.1	1160.4	835.0	602.1	445.1	7.7
58°	1878.3	1835.9	1792.1	1594.0	1323.8	1094.8	828.5	586.7	445.1	339.6	5.1
59°	1274.9	1273.7	1222.2	1071.7	916.0	681.9	517.2	398.8	306.2	249.6	3.9
60°	962.3	939.2	836.2	737.2	576.4	431.0	306.2	235.4	190.4	160.8	2.6
62.5°	337.1	349.9	307.5	254.7	194.3	159.5	122.2	99.1	81.1	65.6	0.0
65°	69.5	75.9	65.6	61.8	48.9	42.5	37.3	32.2	27.0	23.2	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°	9.0	7.7	7.7	7.7	6.4	6.4	6.4	6.4	5.1	5.1	1.3
70°	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	1.3
72.5°	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
85°	1.3	1.3	1.3	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	74.6	74.6	74.6	74.6	74.6	74.6
2.5°	78.5	75.9	72.0	70.8	69.5	69.5
5°	77.2	72.0	68.2	64.3	63.0	63.0
7.5°	73.3	66.9	61.8	59.2	57.9	56.6
10°	69.5	60.5	55.3	52.7	52.7	52.7
12.5°	61.8	54.0	48.9	47.6	48.9	48.9
15°	55.3	46.3	43.7	43.7	45.0	46.3
17.5°	47.6	41.2	38.6	39.9	41.2	42.5
20°	42.5	34.7	34.7	36.0	39.9	39.9
22.5°	37.3	30.9	30.9	34.7	37.3	38.6
25°	33.4	27.0	28.3	32.2	36.0	37.3
27.5°	28.3	23.2	25.7	30.9	34.7	36.0
30°	24.4	20.6	24.4	29.6	33.4	36.0
31°	23.2	19.3	24.4	28.3	33.4	36.0
32°	20.6	19.3	23.2	28.3	33.4	34.7
33°	19.3	18.0	23.2	28.3	33.4	34.7
34°	18.0	16.7	21.9	28.3	33.4	34.7
35°	15.4	16.7	21.9	27.0	32.2	34.7
36°	14.2	15.4	21.9	27.0	32.2	34.7
37°	12.9	15.4	20.6	27.0	32.2	34.7
38°	11.6	14.2	20.6	27.0	32.2	34.7
39°	10.3	14.2	19.3	27.0	32.2	34.7
40°	9.0	12.9	19.3	25.7	32.2	34.7
41°	9.0	12.9	19.3	25.7	32.2	34.7
42°	7.7	12.9	19.3	25.7	32.2	34.7
43°	6.4	11.6	19.3	25.7	32.2	34.7
44°	5.1	11.6	18.0	25.7	32.2	34.7
45°	5.1	11.6	18.0	25.7	32.2	34.7
46°	3.9	10.3	18.0	25.7	32.2	34.7
47°	2.6	10.3	18.0	24.4	32.2	34.7
48°	2.6	10.3	18.0	24.4	32.2	34.7
49°	2.6	10.3	16.7	24.4	32.2	34.7
50°	2.6	10.3	16.7	24.4	32.2	34.7
51°	1.3	9.0	16.7	24.4	32.2	34.7
52°	1.3	9.0	16.7	24.4	32.2	36.0
53°	1.3	9.0	16.7	24.4	32.2	34.7
54°	1.3	9.0	15.4	24.4	32.2	34.7
55°	1.3	9.0	15.4	24.4	32.2	34.7
56°	1.3	7.7	15.4	23.2	32.2	34.7
57°	2.6	7.7	15.4	23.2	32.2	33.4
58°	2.6	7.7	15.4	23.2	30.9	33.4
59°	2.6	7.7	15.4	23.2	30.9	33.4
60°	2.6	7.7	14.2	23.2	30.9	33.4
62.5°	2.6	7.7	14.2	21.9	29.6	32.2
65°	2.6	7.7	12.9	20.6	29.6	30.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.6	6.4	12.9	19.3	28.3	29.6
70°	3.9	6.4	11.6	19.3	27.0	28.3
72.5°	3.9	6.4	11.6	16.7	24.4	27.0
75°	3.9	6.4	10.3	15.4	23.2	24.4
77.5°	3.9	6.4	9.0	14.2	20.6	21.9
80°	5.1	6.4	7.7	11.6	18.0	19.3
82.5°	5.1	6.4	6.4	9.0	14.2	15.4
85°	3.9	5.1	5.1	6.4	9.0	10.3
87.5°	3.9	5.1	3.9	2.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)