

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: P1312599

Luminaire Tested: P3SQAS17R359727DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312599
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: P3SQAS17R359727DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

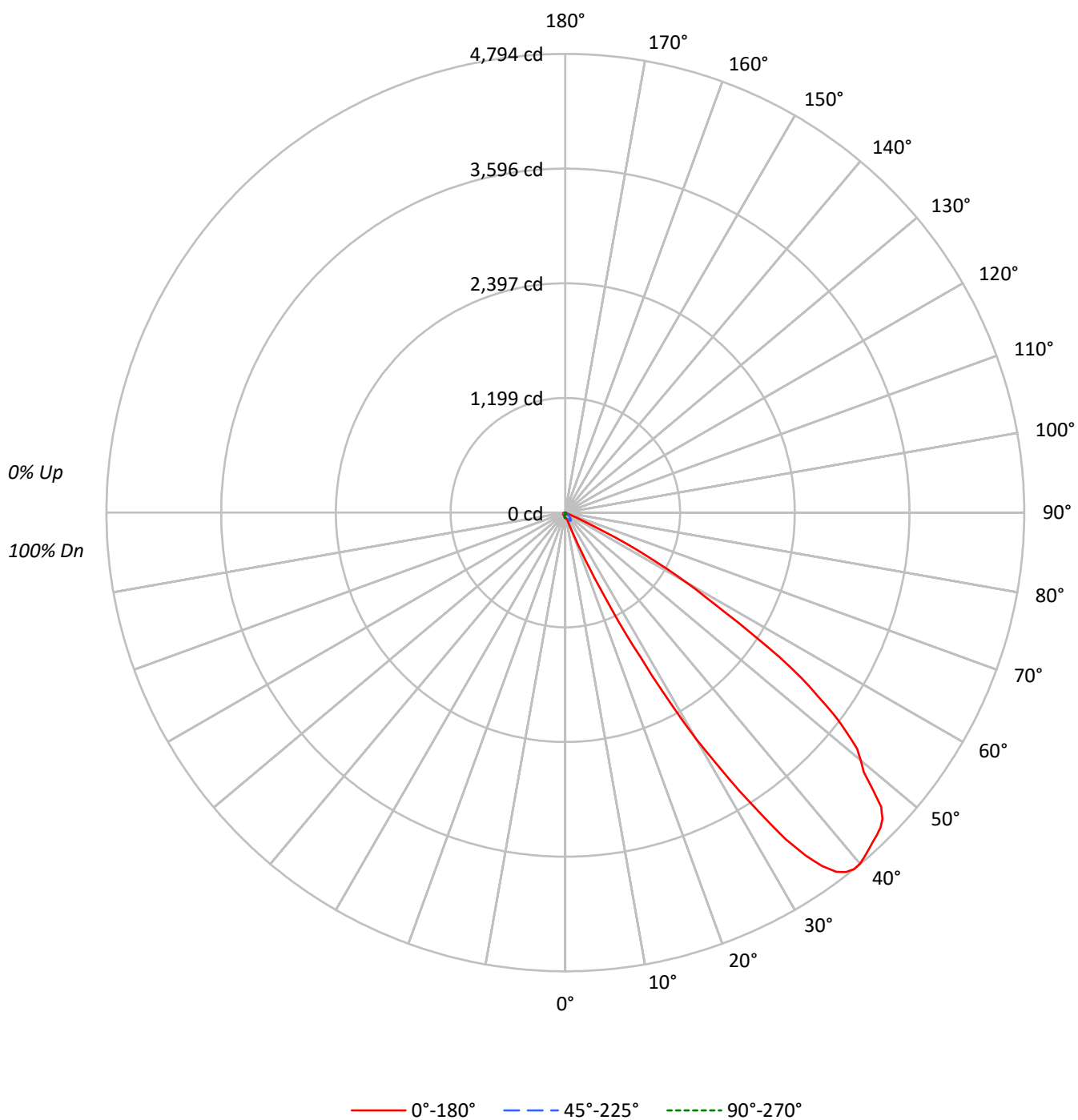
Lumens per Lamp: N/A
Luminaire Lumens: 1194.0 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9472	9472	9472	9472	9472
5°	10252	10062	9318	8385	8195
10°	10738	9793	8289	7170	7170
15°	15369	9610	6722	6151	6347
20°	38525	10263	5333	5333	5920
25°	178815	13112	4105	4922	5530
30°	543579	17798	3222	4494	5568
35°	918687	20625	2712	4310	5445
40°	1076869	20346	2181	4362	5823
45°	1134087	14443	1827	4725	6308
50°	1079493	8654	1742	4903	6939
55°	904566	3573	1952	5495	8077
60°	506403	758	2239	6303	8921
65°	87412	448	2201	7009	10106
70°	1611	554	2719	7604	11380
75°	1464	732	3593	8584	12909
80°	1091	1091	4265	9620	14976
85°	0	2174	8497	10671	16994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1142113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.4
10°-20°	14.1	1.2
20°-30°	73.3	6.1
30°-40°	316.4	26.5
40°-50°	451.3	37.8
50°-60°	279.5	23.4
60°-70°	42.5	3.6
70°-80°	8.0	0.7
80°-90°	4.0	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°	92.3	7.7
0°-40°	408.7	34.2
0°-60°	1139.5	95.4
0°-90°	1194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	59	58	54	48	47	6
15°	86	54	38	34	36	31
25°	941	69	22	26	29	563
35°	4370	98	13	20	26	2624
45°	4656	59	8	19	26	3518
55°	3013	12	6	18	27	2566
65°	214	1	5	17	25	438
75°	2	1	5	13	19	2
85°	0	1	4	5	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°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	55.0	53.9
5°	59.3	59.3	58.2	58.2	58.2	58.2	58.2	58.2	56.0	53.9	50.7
7.5°	60.4	60.4	59.3	59.3	59.3	59.3	58.2	57.1	55.0	50.7	47.4
10°	61.4	61.4	61.4	61.4	60.4	59.3	58.2	56.0	52.8	47.4	44.2
12.5°	69.0	69.0	67.9	65.7	63.6	61.4	59.3	55.0	48.5	43.1	39.9
15°	86.2	85.1	83.0	79.8	75.4	70.1	65.7	53.9	44.2	37.7	35.6
17.5°	120.7	118.6	115.3	104.6	94.8	85.1	76.5	53.9	39.9	33.4	31.3
20°	210.2	211.3	188.6	162.8	141.2	117.5	95.9	56.0	35.6	29.1	28.0
22.5°	438.7	421.4	367.5	305.0	232.8	180.0	135.8	61.4	31.3	24.8	24.8
25°	941.0	875.2	744.8	562.6	396.6	281.3	197.2	69.0	28.0	21.6	22.6
27.5°	1718.1	1658.8	1396.9	1052.0	698.4	424.7	267.3	78.7	24.8	18.3	20.5
30°	2733.4	2569.6	2227.9	1724.5	1167.3	649.9	358.9	89.5	20.5	16.2	19.4
31°	3050.3	2974.8	2558.8	1995.1	1367.8	771.7	397.7	92.7	19.4	16.2	18.3
32°	3426.5	3292.8	2919.9	2291.5	1571.5	880.6	444.1	95.9	18.3	14.0	18.3
33°	3762.7	3633.4	3179.6	2552.3	1777.4	1004.5	493.7	97.0	16.2	14.0	17.2
34°	4116.3	3939.5	3490.0	2825.0	1988.6	1138.2	538.9	98.1	15.1	12.9	17.2
35°	4369.6	4192.8	3757.4	3040.6	2170.8	1256.8	590.7	98.1	14.0	12.9	16.2
36°	4565.7	4410.5	3988.0	3262.6	2351.8	1363.5	631.6	98.1	11.9	11.9	16.2
37°	4700.5	4552.8	4143.2	3453.4	2489.8	1458.3	668.3	98.1	10.8	11.9	16.2
38°	4766.2	4643.3	4293.0	3592.4	2623.5	1532.7	697.4	95.9	9.7	10.8	15.1
39°	4794.2	4694.0	4384.7	3709.9	2723.7	1597.4	718.9	93.8	8.6	10.8	15.1
40°	4789.9	4702.6	4436.4	3790.8	2804.5	1641.6	730.8	90.5	7.5	9.7	15.1
41°	4765.1	4689.7	4463.3	3859.7	2853.0	1671.7	734.0	87.3	6.5	9.7	14.0
42°	4737.1	4668.1	4472.0	3896.4	2884.3	1681.4	725.4	83.0	6.5	8.6	14.0
43°	4708.0	4644.4	4472.0	3908.2	2891.8	1675.0	711.4	75.4	5.4	8.6	14.0
44°	4684.3	4623.9	4457.9	3905.0	2875.7	1650.2	685.5	66.8	4.3	8.6	14.0
45°	4656.3	4597.0	4439.6	3884.5	2844.4	1608.1	653.2	59.3	3.2	7.5	14.0
46°	4606.7	4560.3	4407.3	3842.5	2794.8	1549.9	612.2	53.9	2.2	7.5	12.9
47°	4510.8	4470.9	4344.8	3780.0	2729.1	1481.0	570.2	48.5	2.2	7.5	12.9
48°	4317.8	4316.8	4219.7	3663.6	2624.5	1394.7	526.0	43.1	2.2	7.5	12.9
49°	4131.4	4112.0	3991.2	3458.8	2474.7	1291.3	479.6	38.8	1.1	7.5	12.9
50°	4029.0	3986.9	3788.6	3217.4	2282.9	1147.9	430.1	32.3	1.1	6.5	12.9
51°	3922.3	3861.9	3628.0	2999.6	2054.4	1009.9	376.2	25.9	1.1	6.5	11.9
52°	3729.3	3672.2	3410.3	2791.6	1832.3	868.7	324.4	21.6	1.1	6.5	12.9
53°	3521.3	3439.4	3154.8	2563.1	1637.2	743.7	271.6	18.3	1.1	6.5	11.9
54°	3259.4	3222.7	2896.2	2282.9	1408.7	623.0	223.1	15.1	1.1	6.5	11.9
55°	3012.6	2958.7	2619.2	1996.2	1201.8	510.9	186.5	11.9	1.1	6.5	11.9
56°	2697.8	2617.0	2299.0	1733.2	991.6	411.7	157.4	9.7	1.1	6.5	11.9
57°	2322.7	2236.5	1985.4	1441.1	778.2	313.7	131.5	7.5	1.1	6.5	11.9
58°	1964.9	1890.5	1621.1	1112.3	586.3	217.7	108.9	5.4	1.1	5.4	11.9
59°	1697.6	1615.7	1348.4	855.8	407.4	160.6	81.9	4.3	1.1	6.5	11.9
60°	1470.2	1364.5	1085.4	662.9	291.0	115.3	60.4	2.2	2.2	6.5	11.9
62.5°	847.2	748.0	518.4	269.5	119.6	59.3	29.1	1.1	2.2	6.5	11.9
65°	214.5	190.8	124.0	58.2	33.4	20.5	10.8	1.1	2.2	5.4	10.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	7.5	7.5	7.5	6.5	5.4	4.3	2.2	1.1	2.2	5.4	10.8
70°	3.2	3.2	3.2	2.2	2.2	1.1	1.1	1.1	2.2	5.4	9.7
72.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.2	5.4	8.6
75°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.2	5.4	8.6
77.5°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	3.2	4.3	7.5
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2	4.3	6.5
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2	4.3	5.4
85°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	3.2	4.3	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	4.3	3.2
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):

	135°	157.5°	180°
0°	55.0	55.0	55.0
2.5°	51.7	51.7	51.7
5°	48.5	48.5	47.4
7.5°	45.3	44.2	44.2
10°	41.0	41.0	41.0
12.5°	37.7	37.7	37.7
15°	34.5	35.6	35.6
17.5°	31.3	33.4	33.4
20°	29.1	31.3	32.3
22.5°	26.9	29.1	30.2
25°	25.9	28.0	29.1
27.5°	23.7	26.9	29.1
30°	22.6	25.9	28.0
31°	22.6	25.9	26.9
32°	21.6	25.9	26.9
33°	21.6	25.9	26.9
34°	21.6	24.8	26.9
35°	20.5	24.8	25.9
36°	20.5	24.8	25.9
37°	20.5	24.8	26.9
38°	20.5	24.8	25.9
39°	19.4	24.8	25.9
40°	19.4	24.8	25.9
41°	19.4	24.8	25.9
42°	19.4	24.8	25.9
43°	19.4	24.8	25.9
44°	19.4	23.7	25.9
45°	19.4	23.7	25.9
46°	19.4	24.8	25.9
47°	19.4	24.8	26.9
48°	19.4	23.7	25.9
49°	18.3	23.7	25.9
50°	18.3	23.7	25.9
51°	18.3	24.8	26.9
52°	18.3	24.8	26.9
53°	18.3	24.8	26.9
54°	18.3	24.8	25.9
55°	18.3	24.8	26.9
56°	18.3	24.8	25.9
57°	18.3	24.8	25.9
58°	18.3	23.7	25.9
59°	18.3	23.7	25.9
60°	18.3	23.7	25.9
62.5°	17.2	23.7	25.9
65°	17.2	22.6	24.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	16.2	22.6	23.7
70°	15.1	21.6	22.6
72.5°	14.0	20.5	21.6
75°	12.9	18.3	19.4
77.5°	10.8	16.2	18.3
80°	9.7	14.0	15.1
82.5°	7.5	11.9	12.9
85°	5.4	8.6	8.6
87.5°	2.2	4.3	4.3
90°	0.0	0.0	0.0

(END OF REPORT)