

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: P1308974

Luminaire Tested: P3SQAS09R359035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308974
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: P3SQAS09R359035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

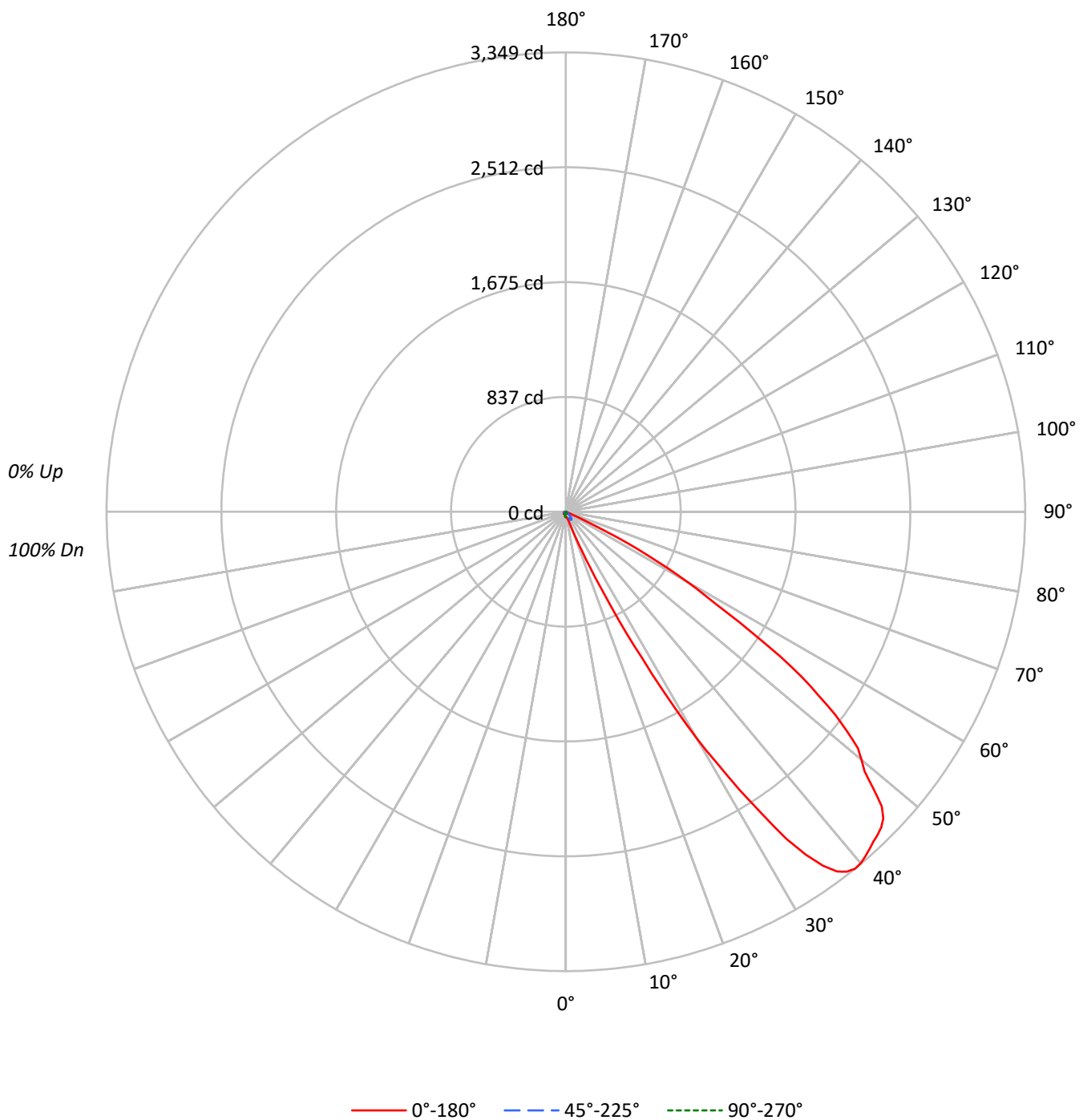
Lumens per Lamp: N/A
Luminaire Lumens: 834.1 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24	24	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20	20	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6613	6613	6613	6613	6613
5°	7157	7036	6500	5861	5722
10°	7502	6838	5789	5002	5002
15°	10734	6704	4707	4297	4422
20°	26905	7166	3720	3720	4142
25°	124886	9159	2869	3439	3858
30°	379694	12429	2247	3142	3898
35°	641689	14402	1892	3007	3805
40°	752183	14209	1529	3058	4069
45°	792153	10083	1291	3312	4408
50°	754011	6055	1206	3430	4850
55°	631839	2492	1351	3843	5645
60°	353711	517	1550	4409	6234
65°	61046	326	1549	4890	7050
70°	1158	403	1913	5287	7956
75°	998	532	2529	5989	9050
80°	793	793	2975	6744	10414
85°	0	1581	5928	7509	11856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 797746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.4
10°-20°	9.8	1.2
20°-30°	51.2	6.1
30°-40°	221.0	26.5
40°-50°	315.2	37.8
50°-60°	195.2	23.4
60°-70°	29.7	3.6
70°-80°	5.6	0.7
80°-90°	2.8	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°	64.5	7.7
0°-40°	285.5	34.2
0°-60°	796.0	95.4
0°-90°	834.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	41	41	38	34	33	4
15°	60	38	26	24	25	22
25°	657	48	15	18	20	393
35°	3052	68	9	14	18	1833
45°	3252	41	5	14	18	2457
55°	2104	8	4	13	19	1792
65°	150	1	4	12	17	306
75°	2	1	4	9	14	2
85°	0	1	3	4	6	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°	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
2.5°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	38.4	37.6
5°	41.4	41.4	40.7	40.7	40.7	40.7	40.7	40.7	39.1	37.6	35.4
7.5°	42.2	42.2	41.4	41.4	41.4	41.4	40.7	39.9	38.4	35.4	33.1
10°	42.9	42.9	42.9	42.9	42.2	41.4	40.7	39.1	36.9	33.1	30.9
12.5°	48.2	48.2	47.4	45.9	44.4	42.9	41.4	38.4	33.9	30.1	27.9
15°	60.2	59.5	58.0	55.7	52.7	48.9	45.9	37.6	30.9	26.4	24.8
17.5°	84.3	82.8	80.6	73.0	66.3	59.5	53.5	37.6	27.9	23.3	21.8
20°	146.8	147.6	131.8	113.7	98.6	82.1	67.0	39.1	24.8	20.3	19.6
22.5°	306.4	294.4	256.7	213.1	162.6	125.7	94.9	42.9	21.8	17.3	17.3
25°	657.2	611.3	520.2	393.0	277.1	196.5	137.8	48.2	19.6	15.1	15.8
27.5°	1200.1	1158.7	975.7	734.8	487.9	296.6	186.7	55.0	17.3	12.8	14.3
30°	1909.3	1794.8	1556.2	1204.6	815.4	454.0	250.7	62.5	14.3	11.3	13.6
31°	2130.6	2077.9	1787.3	1393.6	955.4	539.1	277.8	64.7	13.6	11.3	12.8
32°	2393.4	2300.0	2039.5	1600.6	1097.7	615.1	310.2	67.0	12.8	9.8	12.8
33°	2628.2	2537.9	2220.9	1782.8	1241.5	701.7	344.8	67.8	11.3	9.8	12.0
34°	2875.2	2751.7	2437.8	1973.3	1389.0	795.0	376.4	68.5	10.5	9.0	12.0
35°	3052.1	2928.6	2624.5	2123.8	1516.3	877.8	412.6	68.5	9.8	9.0	11.3
36°	3189.1	3080.7	2785.6	2278.9	1642.7	952.4	441.2	68.5	8.3	8.3	11.3
37°	3283.2	3180.1	2894.0	2412.2	1739.1	1018.6	466.8	68.5	7.5	8.3	11.3
38°	3329.2	3243.3	2998.7	2509.3	1832.5	1070.6	487.1	67.0	6.8	7.5	10.5
39°	3348.7	3278.7	3062.6	2591.4	1902.5	1115.7	502.2	65.5	6.0	7.5	10.5
40°	3345.7	3284.7	3098.8	2647.8	1959.0	1146.6	510.4	63.2	5.3	6.8	10.5
41°	3328.4	3275.7	3117.6	2696.0	1992.8	1167.7	512.7	61.0	4.5	6.8	9.8
42°	3308.8	3260.7	3123.6	2721.6	2014.7	1174.5	506.7	58.0	4.5	6.0	9.8
43°	3288.5	3244.1	3123.6	2729.9	2019.9	1169.9	496.9	52.7	3.8	6.0	9.8
44°	3271.9	3229.8	3113.8	2727.6	2008.6	1152.6	478.8	46.7	3.0	6.0	9.8
45°	3252.4	3211.0	3101.0	2713.3	1986.8	1123.3	456.2	41.4	2.3	5.3	9.8
46°	3217.7	3185.4	3078.5	2684.0	1952.2	1082.6	427.6	37.6	1.5	5.3	9.0
47°	3150.7	3122.9	3034.8	2640.3	1906.3	1034.4	398.3	33.9	1.5	5.3	9.0
48°	3016.0	3015.2	2947.5	2559.0	1833.2	974.2	367.4	30.1	1.5	5.3	9.0
49°	2885.7	2872.2	2787.9	2415.9	1728.6	901.9	335.0	27.1	0.8	5.3	9.0
50°	2814.2	2784.8	2646.3	2247.3	1594.6	801.8	300.4	22.6	0.8	4.5	9.0
51°	2739.7	2697.5	2534.1	2095.2	1435.0	705.4	262.7	18.1	0.8	4.5	8.3
52°	2604.9	2565.0	2382.1	1949.9	1279.9	606.8	226.6	15.1	0.8	4.5	9.0
53°	2459.6	2402.4	2203.6	1790.3	1143.6	519.5	189.7	12.8	0.8	4.5	8.3
54°	2276.7	2251.1	2022.9	1594.6	984.0	435.2	155.8	10.5	0.8	4.5	8.3
55°	2104.3	2066.6	1829.5	1394.3	839.4	356.9	130.2	8.3	0.8	4.5	8.3
56°	1884.4	1828.0	1605.9	1210.6	692.6	287.6	109.9	6.8	0.8	4.5	8.3
57°	1622.4	1562.2	1386.8	1006.6	543.6	219.1	91.8	5.3	0.8	4.5	8.3
58°	1372.5	1320.5	1132.3	777.0	409.6	152.1	76.0	3.8	0.8	3.8	8.3
59°	1185.8	1128.5	941.8	597.8	284.6	112.2	57.2	3.0	0.8	4.5	8.3
60°	1026.9	953.1	758.1	463.0	203.3	80.6	42.2	1.5	1.5	4.5	8.3
62.5°	591.8	522.5	362.1	188.2	83.6	41.4	20.3	0.8	1.5	4.5	8.3
65°	149.8	133.3	86.6	40.7	23.3	14.3	7.5	0.8	1.5	3.8	7.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.3	5.3	5.3	4.5	3.8	3.0	1.5	0.8	1.5	3.8	7.5
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.8	1.5	3.8	6.8
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.8	6.0
75°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.8	6.0
77.5°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.0	5.3
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.0	4.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.0	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.3	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.0	2.3
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°	38.4	38.4	38.4
2.5°	36.1	36.1	36.1
5°	33.9	33.9	33.1
7.5°	31.6	30.9	30.9
10°	28.6	28.6	28.6
12.5°	26.4	26.4	26.4
15°	24.1	24.8	24.8
17.5°	21.8	23.3	23.3
20°	20.3	21.8	22.6
22.5°	18.8	20.3	21.1
25°	18.1	19.6	20.3
27.5°	16.6	18.8	20.3
30°	15.8	18.1	19.6
31°	15.8	18.1	18.8
32°	15.1	18.1	18.8
33°	15.1	18.1	18.8
34°	15.1	17.3	18.8
35°	14.3	17.3	18.1
36°	14.3	17.3	18.1
37°	14.3	17.3	18.8
38°	14.3	17.3	18.1
39°	13.6	17.3	18.1
40°	13.6	17.3	18.1
41°	13.6	17.3	18.1
42°	13.6	17.3	18.1
43°	13.6	17.3	18.1
44°	13.6	16.6	18.1
45°	13.6	16.6	18.1
46°	13.6	17.3	18.1
47°	13.6	17.3	18.8
48°	13.6	16.6	18.1
49°	12.8	16.6	18.1
50°	12.8	16.6	18.1
51°	12.8	17.3	18.8
52°	12.8	17.3	18.8
53°	12.8	17.3	18.8
54°	12.8	17.3	18.1
55°	12.8	17.3	18.8
56°	12.8	17.3	18.1
57°	12.8	17.3	18.1
58°	12.8	16.6	18.1
59°	12.8	16.6	18.1
60°	12.8	16.6	18.1
62.5°	12.0	16.6	18.1
65°	12.0	15.8	17.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.3	15.8	16.6
70°	10.5	15.1	15.8
72.5°	9.8	14.3	15.1
75°	9.0	12.8	13.6
77.5°	7.5	11.3	12.8
80°	6.8	9.8	10.5
82.5°	5.3	8.3	9.0
85°	3.8	6.0	6.0
87.5°	1.5	3.0	3.0
90°	0.0	0.0	0.0

(END OF REPORT)