

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: P1306736

Luminaire Tested: P3SQAS09R359027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306736
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: P3SQAS09R359027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

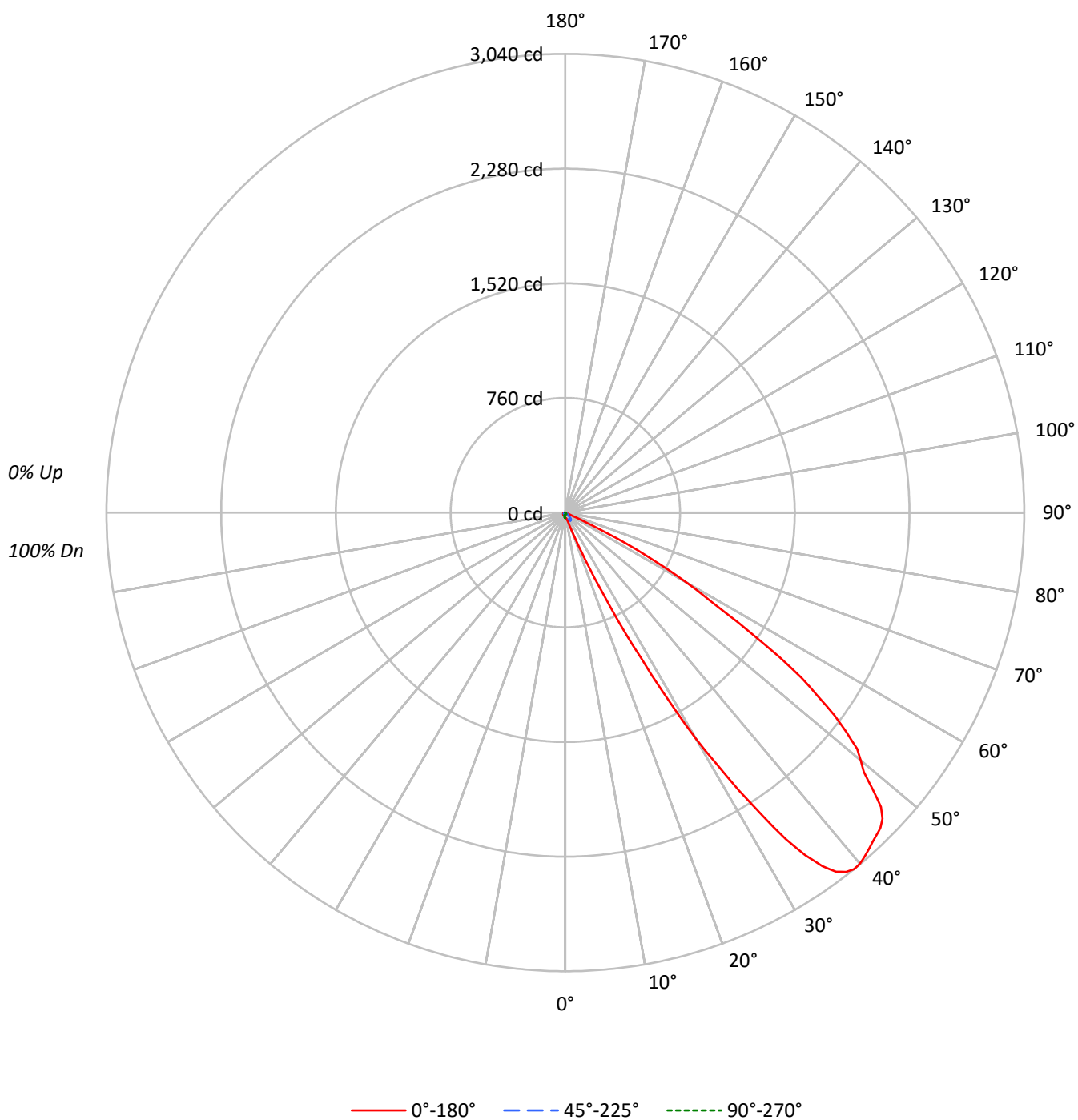
Lumens per Lamp: N/A
Luminaire Lumens: 757.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	6011	6011	6011	6011	6011
5°	6500	6379	5913	5325	5204
10°	6820	6208	5264	4547	4547
15°	9753	6098	4261	3905	4030
20°	24431	6506	3391	3391	3757
25°	113370	8304	2603	3116	3515
30°	344634	11276	2048	2864	3540
35°	582442	13077	1724	2733	3448
40°	682735	12905	1394	2765	3687
45°	719012	9158	1169	2996	3994
50°	684403	5493	1099	3108	4394
55°	573499	2252	1231	3483	5134
60°	321057	482	1412	3996	5649
65°	55422	285	1386	4442	6398
70°	1057	352	1712	4834	7251
75°	932	466	2262	5456	8185
80°	694	694	2678	6149	9521
85°	0	1383	5335	6719	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 724112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	8.9	1.2
20°-30°	46.5	6.1
30°-40°	200.6	26.5
40°-50°	286.1	37.8
50°-60°	177.2	23.4
60°-70°	27.0	3.6
70°-80°	5.1	0.7
80°-90°	2.5	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°	58.5	7.7
0°-40°	259.1	34.2
0°-60°	722.5	95.4
0°-90°	757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	38	37	34	31	30	4
15°	55	34	24	22	23	20
25°	597	44	14	16	18	357
35°	2770	62	8	13	16	1663
45°	2952	38	5	12	16	2230
55°	1910	8	4	12	17	1627
65°	136	1	3	11	16	278
75°	1	1	3	8	12	1
85°	0	1	3	3	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°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
2.5°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	34.9	34.2
5°	37.6	37.6	36.9	36.9	36.9	36.9	36.9	36.9	35.5	34.2	32.1
7.5°	38.3	38.3	37.6	37.6	37.6	37.6	36.9	36.2	34.9	32.1	30.1
10°	39.0	39.0	39.0	39.0	38.3	37.6	36.9	35.5	33.5	30.1	28.0
12.5°	43.7	43.7	43.1	41.7	40.3	39.0	37.6	34.9	30.8	27.3	25.3
15°	54.7	54.0	52.6	50.6	47.8	44.4	41.7	34.2	28.0	23.9	22.6
17.5°	76.5	75.2	73.1	66.3	60.1	54.0	48.5	34.2	25.3	21.2	19.8
20°	133.3	133.9	119.6	103.2	89.5	74.5	60.8	35.5	22.6	18.5	17.8
22.5°	278.1	267.2	233.0	193.4	147.6	114.1	86.1	39.0	19.8	15.7	15.7
25°	596.6	554.9	472.2	356.7	251.5	178.4	125.1	43.7	17.8	13.7	14.4
27.5°	1089.3	1051.7	885.6	667.0	442.8	269.2	169.5	49.9	15.7	11.6	13.0
30°	1733.0	1629.1	1412.5	1093.4	740.1	412.1	227.6	56.7	13.0	10.3	12.3
31°	1933.9	1886.1	1622.3	1264.9	867.2	489.3	252.2	58.8	12.3	10.3	11.6
32°	2172.4	2087.6	1851.2	1452.8	996.3	558.3	281.5	60.8	11.6	8.9	11.6
33°	2385.6	2303.6	2015.9	1618.2	1126.9	636.9	313.0	61.5	10.3	8.9	10.9
34°	2609.7	2497.7	2212.7	1791.1	1260.8	721.6	341.7	62.2	9.6	8.2	10.9
35°	2770.3	2658.2	2382.2	1927.7	1376.3	796.8	374.5	62.2	8.9	8.2	10.3
36°	2894.7	2796.3	2528.4	2068.5	1491.1	864.4	400.4	62.2	7.5	7.5	10.3
37°	2980.1	2886.5	2626.8	2189.5	1578.5	924.6	423.7	62.2	6.8	7.5	10.3
38°	3021.8	2943.9	2721.8	2277.6	1663.3	971.7	442.1	60.8	6.2	6.8	9.6
39°	3039.6	2976.0	2779.9	2352.1	1726.8	1012.7	455.8	59.5	5.5	6.8	9.6
40°	3036.8	2981.5	2812.7	2403.4	1778.1	1040.7	463.3	57.4	4.8	6.2	9.6
41°	3021.1	2973.3	2829.8	2447.1	1808.8	1059.9	465.4	55.4	4.1	6.2	8.9
42°	3003.3	2959.6	2835.2	2470.3	1828.7	1066.0	459.9	52.6	4.1	5.5	8.9
43°	2984.9	2944.6	2835.2	2477.8	1833.4	1061.9	451.0	47.8	3.4	5.5	8.9
44°	2969.9	2931.6	2826.4	2475.8	1823.2	1046.2	434.6	42.4	2.7	5.5	8.9
45°	2952.1	2914.5	2814.7	2462.8	1803.4	1019.6	414.1	37.6	2.1	4.8	8.9
46°	2920.7	2891.3	2794.2	2436.2	1771.9	982.7	388.1	34.2	1.4	4.8	8.2
47°	2859.8	2834.6	2754.6	2396.5	1730.3	938.9	361.5	30.8	1.4	4.8	8.2
48°	2737.5	2736.8	2675.3	2322.7	1664.0	884.3	333.5	27.3	1.4	4.8	8.2
49°	2619.3	2607.0	2530.5	2192.9	1569.0	818.7	304.1	24.6	0.7	4.8	8.2
50°	2554.4	2527.7	2402.0	2039.8	1447.3	727.8	272.7	20.5	0.7	4.1	8.2
51°	2486.7	2448.5	2300.2	1901.8	1302.5	640.3	238.5	16.4	0.7	4.1	7.5
52°	2364.4	2328.2	2162.1	1769.9	1161.7	550.8	205.7	13.7	0.7	4.1	8.2
53°	2232.5	2180.6	2000.2	1625.0	1038.0	471.5	172.2	11.6	0.7	4.1	7.5
54°	2066.5	2043.2	1836.2	1447.3	893.1	395.0	141.5	9.6	0.7	4.1	7.5
55°	1910.0	1875.8	1660.6	1265.6	761.9	323.9	118.2	7.5	0.7	4.1	7.5
56°	1710.4	1659.2	1457.6	1098.8	628.7	261.0	99.8	6.2	0.7	4.1	7.5
57°	1472.6	1418.0	1258.7	913.6	493.4	198.9	83.4	4.8	0.7	4.1	7.5
58°	1245.8	1198.6	1027.8	705.2	371.7	138.0	69.0	3.4	0.7	3.4	7.5
59°	1076.3	1024.3	854.9	542.6	258.3	101.8	51.9	2.7	0.7	4.1	7.5
60°	932.1	865.1	688.1	420.3	184.5	73.1	38.3	1.4	1.4	4.1	7.5
62.5°	537.1	474.2	328.7	170.8	75.9	37.6	18.5	0.7	1.4	4.1	7.5
65°	136.0	121.0	78.6	36.9	21.2	13.0	6.8	0.7	1.4	3.4	6.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.8	4.8	4.8	4.1	3.4	2.7	1.4	0.7	1.4	3.4	6.8
70°	2.1	2.1	2.1	1.4	1.4	0.7	0.7	0.7	1.4	3.4	6.2
72.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	3.4	5.5
75°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	3.4	5.5
77.5°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.7	4.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.7	4.1
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.7	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	2.1	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	2.7	2.1
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°	34.9	34.9	34.9
2.5°	32.8	32.8	32.8
5°	30.8	30.8	30.1
7.5°	28.7	28.0	28.0
10°	26.0	26.0	26.0
12.5°	23.9	23.9	23.9
15°	21.9	22.6	22.6
17.5°	19.8	21.2	21.2
20°	18.5	19.8	20.5
22.5°	17.1	18.5	19.1
25°	16.4	17.8	18.5
27.5°	15.0	17.1	18.5
30°	14.4	16.4	17.8
31°	14.4	16.4	17.1
32°	13.7	16.4	17.1
33°	13.7	16.4	17.1
34°	13.7	15.7	17.1
35°	13.0	15.7	16.4
36°	13.0	15.7	16.4
37°	13.0	15.7	17.1
38°	13.0	15.7	16.4
39°	12.3	15.7	16.4
40°	12.3	15.7	16.4
41°	12.3	15.7	16.4
42°	12.3	15.7	16.4
43°	12.3	15.7	16.4
44°	12.3	15.0	16.4
45°	12.3	15.0	16.4
46°	12.3	15.7	16.4
47°	12.3	15.7	17.1
48°	12.3	15.0	16.4
49°	11.6	15.0	16.4
50°	11.6	15.0	16.4
51°	11.6	15.7	17.1
52°	11.6	15.7	17.1
53°	11.6	15.7	17.1
54°	11.6	15.7	16.4
55°	11.6	15.7	17.1
56°	11.6	15.7	16.4
57°	11.6	15.7	16.4
58°	11.6	15.0	16.4
59°	11.6	15.0	16.4
60°	11.6	15.0	16.4
62.5°	10.9	15.0	16.4
65°	10.9	14.4	15.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	10.3	14.4	15.0
70°	9.6	13.7	14.4
72.5°	8.9	13.0	13.7
75°	8.2	11.6	12.3
77.5°	6.8	10.3	11.6
80°	6.2	8.9	9.6
82.5°	4.8	7.5	8.2
85°	3.4	5.5	5.5
87.5°	1.4	2.7	2.7
90°	0.0	0.0	0.0

(END OF REPORT)