

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: P1314230

Luminaire Tested: P3SQAS09R359735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314230
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: P3SQAS09R359735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

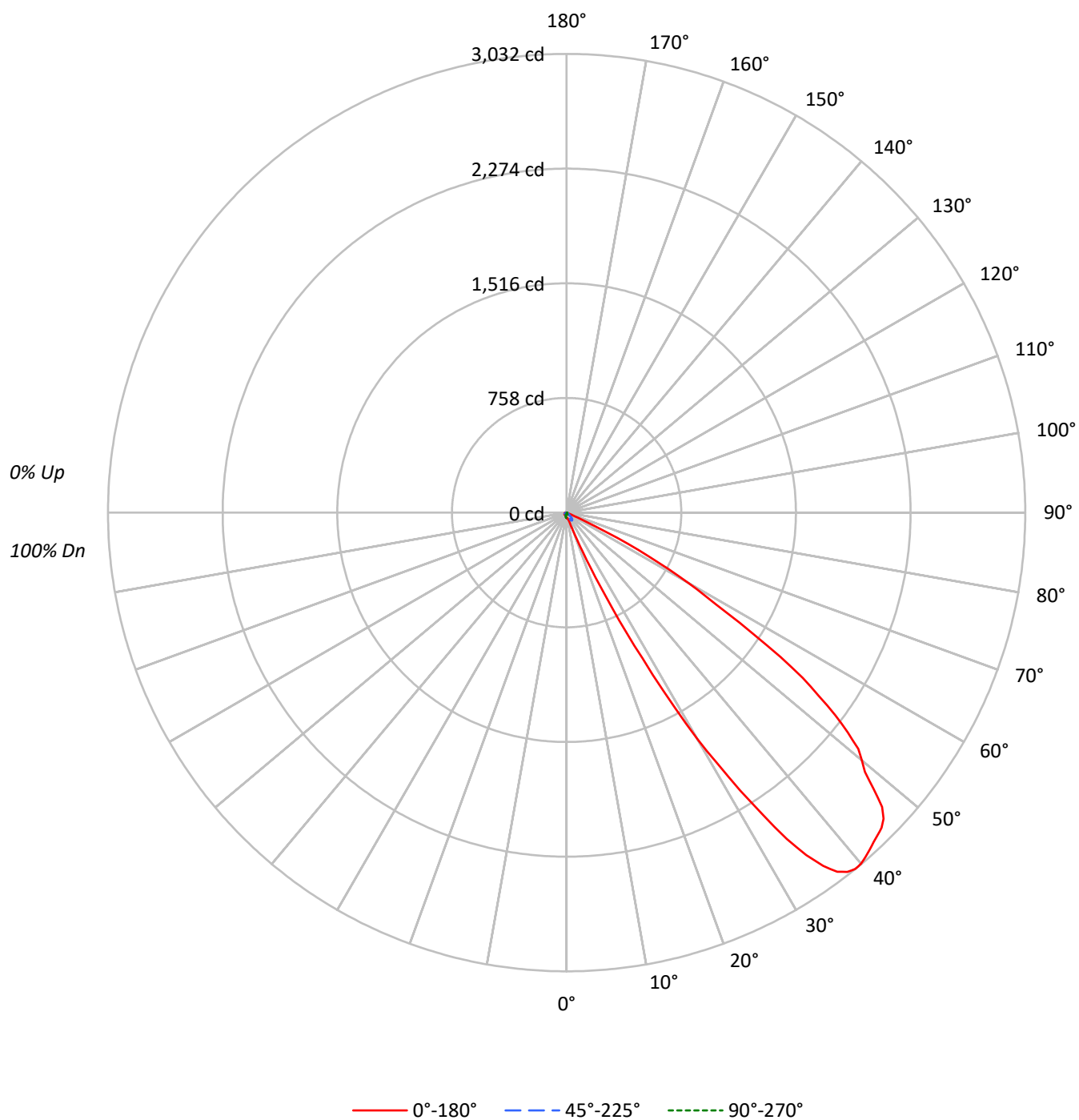
Lumens per Lamp: N/A
Luminaire Lumens: 755.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	5993	5993	5993	5993	5993
5°	6483	6362	5895	5307	5186
10°	6785	6191	5246	4529	4529
15°	9717	6080	4261	3887	4012
20°	24357	6488	3372	3372	3739
25°	113066	8285	2584	3116	3496
30°	343719	11256	2028	2844	3520
35°	580907	13035	1724	2712	3448
40°	680937	12882	1371	2765	3687
45°	717113	9133	1169	2996	3994
50°	682581	5466	1099	3108	4394
55°	571967	2252	1231	3483	5104
60°	320196	482	1412	3996	5649
65°	55259	285	1386	4442	6398
70°	1007	352	1712	4784	7201
75°	932	466	2262	5456	8185
80°	694	694	2678	6050	9422
85°	0	1383	5335	6719	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 722178 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°	46.3	6.1
30°-40°	200.1	26.5
40°-50°	285.4	37.8
50°-60°	176.8	23.4
60°-70°	26.9	3.6
70°-80°	5.0	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°	58.4	7.7
0°-40°	258.4	34.2
0°-60°	720.6	95.4
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	38	37	34	31	30	4
15°	54	34	24	22	22	20
25°	595	44	14	16	18	356
35°	2763	62	8	13	16	1659
45°	2944	38	5	12	16	2224
55°	1905	8	4	12	17	1622
65°	136	1	3	11	16	277
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°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
2.5°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	34.8	34.1
5°	37.5	37.5	36.8	36.8	36.8	36.8	36.8	36.8	35.4	34.1	32.0
7.5°	38.2	38.2	37.5	37.5	37.5	37.5	36.8	36.1	34.8	32.0	30.0
10°	38.8	38.8	38.8	38.8	38.2	37.5	36.8	35.4	33.4	30.0	27.9
12.5°	43.6	43.6	42.9	41.6	40.2	38.8	37.5	34.8	30.7	27.3	25.2
15°	54.5	53.8	52.5	50.4	47.7	44.3	41.6	34.1	27.9	23.9	22.5
17.5°	76.3	75.0	72.9	66.1	60.0	53.8	48.4	34.1	25.2	21.1	19.8
20°	132.9	133.6	119.3	102.9	89.3	74.3	60.7	35.4	22.5	18.4	17.7
22.5°	277.4	266.5	232.4	192.9	147.2	113.8	85.9	38.8	19.8	15.7	15.7
25°	595.0	553.4	471.0	355.8	250.8	177.9	124.7	43.6	17.7	13.6	14.3
27.5°	1086.4	1048.9	883.3	665.2	441.6	268.5	169.0	49.8	15.7	11.6	12.9
30°	1728.4	1624.8	1408.8	1090.5	738.1	411.0	227.0	56.6	12.9	10.2	12.3
31°	1928.8	1881.1	1618.0	1261.5	864.9	488.0	251.5	58.6	12.3	10.2	11.6
32°	2166.6	2082.1	1846.3	1449.0	993.7	556.8	280.8	60.7	11.6	8.9	11.6
33°	2379.3	2297.5	2010.6	1613.9	1123.9	635.2	312.1	61.3	10.2	8.9	10.9
34°	2602.8	2491.1	2206.9	1786.3	1257.5	719.7	340.8	62.0	9.5	8.2	10.9
35°	2763.0	2651.2	2375.9	1922.7	1372.6	794.7	373.5	62.0	8.9	8.2	10.2
36°	2887.0	2788.9	2521.7	2063.0	1487.1	862.2	399.4	62.0	7.5	7.5	10.2
37°	2972.2	2878.9	2619.9	2183.7	1574.4	922.1	422.6	62.0	6.8	7.5	10.2
38°	3013.8	2936.1	2714.6	2271.6	1658.9	969.2	441.0	60.7	6.1	6.8	9.5
39°	3031.5	2968.1	2772.5	2345.9	1722.3	1010.1	454.6	59.3	5.5	6.8	9.5
40°	3028.8	2973.6	2805.3	2397.0	1773.4	1038.0	462.1	57.3	4.8	6.1	9.5
41°	3013.1	2965.4	2822.3	2440.6	1804.1	1057.1	464.1	55.2	4.1	6.1	8.9
42°	2995.4	2951.8	2827.7	2463.8	1823.8	1063.2	458.7	52.5	4.1	5.5	8.9
43°	2977.0	2936.8	2827.7	2471.3	1828.6	1059.1	449.8	47.7	3.4	5.5	8.9
44°	2962.0	2923.8	2818.9	2469.3	1818.4	1043.5	433.5	42.3	2.7	5.5	8.9
45°	2944.3	2906.8	2807.3	2456.3	1798.6	1016.9	413.0	37.5	2.0	4.8	8.9
46°	2912.9	2883.6	2786.9	2429.7	1767.3	980.1	387.1	34.1	1.4	4.8	8.2
47°	2852.3	2827.1	2747.3	2390.2	1725.7	936.4	360.5	30.7	1.4	4.8	8.2
48°	2730.3	2729.6	2668.3	2316.6	1659.6	881.9	332.6	27.3	1.4	4.8	8.2
49°	2612.4	2600.1	2523.8	2187.1	1564.8	816.5	303.3	24.5	0.7	4.8	8.2
50°	2547.6	2521.1	2395.6	2034.4	1443.5	725.8	271.9	20.4	0.7	4.1	8.2
51°	2480.2	2442.0	2294.1	1896.8	1299.0	638.6	237.9	16.4	0.7	4.1	7.5
52°	2358.2	2322.0	2156.4	1765.2	1158.6	549.3	205.1	13.6	0.7	4.1	8.2
53°	2226.6	2174.8	1994.9	1620.7	1035.3	470.3	171.8	11.6	0.7	4.1	7.5
54°	2061.0	2037.8	1831.3	1443.5	890.8	393.9	141.1	9.5	0.7	4.1	7.5
55°	1904.9	1870.9	1656.2	1262.2	759.9	323.1	117.9	7.5	0.7	4.1	7.5
56°	1705.9	1654.8	1453.7	1095.9	627.0	260.4	99.5	6.1	0.7	4.1	7.5
57°	1468.7	1414.2	1255.4	911.2	492.1	198.3	83.1	4.8	0.7	4.1	7.5
58°	1242.5	1195.4	1025.0	703.4	370.8	137.7	68.8	3.4	0.7	3.4	7.5
59°	1073.4	1021.6	852.6	541.2	257.6	101.6	51.8	2.7	0.7	4.1	7.5
60°	929.6	862.8	686.3	419.2	184.0	72.9	38.2	1.4	1.4	4.1	7.5
62.5°	535.7	473.0	327.8	170.4	75.7	37.5	18.4	0.7	1.4	4.1	7.5
65°	135.6	120.6	78.4	36.8	21.1	12.9	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°	2.0	2.0	2.0	1.4	1.4	0.7	0.7	0.7	1.4	3.4	6.1
72.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.0	3.4	5.5
75°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.0	3.4	5.5
77.5°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	4.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	4.1
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	2.0	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.0
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°	34.8	34.8	34.8
2.5°	32.7	32.7	32.7
5°	30.7	30.7	30.0
7.5°	28.6	27.9	27.9
10°	25.9	25.9	25.9
12.5°	23.9	23.9	23.9
15°	21.8	22.5	22.5
17.5°	19.8	21.1	21.1
20°	18.4	19.8	20.4
22.5°	17.0	18.4	19.1
25°	16.4	17.7	18.4
27.5°	15.0	17.0	18.4
30°	14.3	16.4	17.7
31°	14.3	16.4	17.0
32°	13.6	16.4	17.0
33°	13.6	16.4	17.0
34°	13.6	15.7	17.0
35°	12.9	15.7	16.4
36°	12.9	15.7	16.4
37°	12.9	15.7	17.0
38°	12.9	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	17.0
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	17.0
52°	11.6	15.7	17.0
53°	11.6	15.7	17.0
54°	11.6	15.7	16.4
55°	11.6	15.7	17.0
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	14.3	15.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	10.2	14.3	15.0
70°	9.5	13.6	14.3
72.5°	8.9	12.9	13.6
75°	8.2	11.6	12.3
77.5°	6.8	10.2	11.6
80°	6.1	8.9	9.5
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)