

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: P1305748

Luminaire Tested: P3SQASS09R309024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS09R309024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

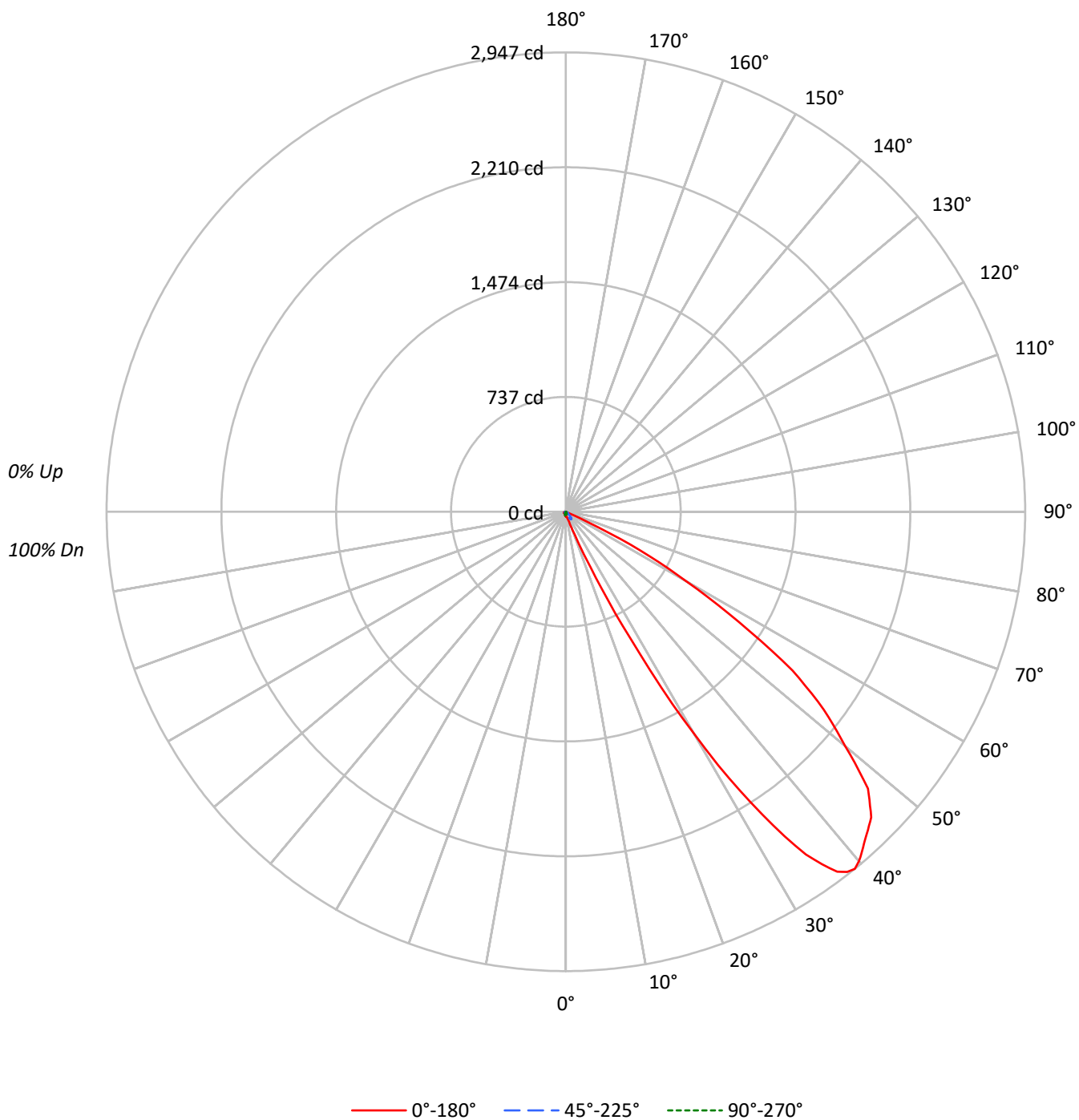
Lumens per Lamp: N/A
Luminaire Lumens: 766.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48
7	62	48	38	32	60	47	38	32	45	37	31		44	36	31		42
8	56	42	33	27	55	41	33	27	40	32	26		39	32	26		37
9	52	37	29	23	50	37	28	23	36	28	22		34	27	22		33
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5115	5115	5115	5115	5115
5°	5463	5359	5014	4581	4460
10°	5981	5299	4407	3952	3830
15°	8737	5295	3673	3334	3459
20°	21993	5792	2841	2841	3189
25°	102139	7240	2204	2584	2945
30°	325165	10003	1670	2446	2943
35°	564214	12215	1367	2313	2985
40°	658005	12185	1012	2316	3058
45°	674831	8646	1096	2509	3312
50°	627548	4850	857	2599	3805
55°	533384	2522	961	2913	4264
60°	308037	654	1102	3100	4684
65°	62839	0	1304	3668	5257
70°	957	302	1611	4230	6194
75°	865	399	1730	4325	7320
80°	595	595	2579	5157	8331
85°	0	1186	5138	5138	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 674831 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.4
10°-20°	7.7	1.0
20°-30°	44.2	5.8
30°-40°	206.3	26.9
40°-50°	291.8	38.1
50°-60°	179.5	23.4
60°-70°	27.3	3.6
70°-80°	4.3	0.6
80°-90°	2.2	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°	54.6	7.1
0°-40°	260.9	34.1
0°-60°	732.2	95.6
0°-90°	766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	32	31	29	26	26	3
15°	49	30	21	19	19	17
25°	538	38	12	14	16	331
35°	2684	58	6	11	14	1611
45°	2771	36	4	10	14	2101
55°	1776	8	3	10	14	1512
65°	154	0	3	9	13	279
75°	1	1	3	6	11	1
85°	0	1	3	3	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	30.3	30.3	31.0	31.0	30.3	31.0	31.0	31.0	29.7	29.0	27.7
5°	31.6	31.6	31.6	32.3	31.6	31.6	31.0	30.3	29.0	27.1	26.5
7.5°	32.9	32.9	32.3	32.9	32.3	32.3	31.0	29.7	27.7	25.8	24.5
10°	34.2	34.2	33.6	33.6	32.9	32.9	30.3	28.4	25.2	23.2	22.6
12.5°	38.1	38.1	37.4	36.8	35.5	34.8	29.7	26.5	22.6	20.6	20.0
15°	49.0	48.4	47.1	45.2	41.9	41.3	29.7	24.5	20.6	18.7	18.7
17.5°	67.1	66.5	64.5	59.4	53.6	51.6	29.7	21.9	18.1	16.8	16.8
20°	120.0	114.9	105.2	92.3	78.7	71.6	31.6	19.4	15.5	14.8	15.5
21°	156.8	151.6	139.4	118.1	94.2	86.5	32.9	18.7	14.8	14.2	15.5
22°	213.6	207.8	182.6	153.6	119.4	105.8	33.6	17.4	13.6	13.6	14.8
23°	298.1	288.4	245.8	199.4	149.1	129.7	34.8	16.8	12.9	13.6	14.2
24°	390.4	382.0	333.6	263.9	190.3	162.6	36.1	16.1	12.3	12.3	13.6
25°	537.5	527.8	442.0	332.9	241.3	195.5	38.1	14.8	11.6	11.6	13.6
26°	727.8	683.3	569.1	429.1	297.5	245.2	40.0	14.2	11.0	11.6	12.9
27°	908.5	871.7	743.3	550.4	367.8	301.3	42.6	13.6	10.3	11.0	12.9
28°	1146.0	1094.3	932.4	696.2	463.3	364.6	45.2	12.9	9.7	11.0	12.3
29°	1411.8	1339.5	1144.0	860.1	571.0	435.5	47.7	12.3	9.0	10.3	12.3
30°	1635.1	1567.3	1371.8	1054.3	694.9	529.1	50.3	11.6	8.4	10.3	12.3
31°	1897.0	1794.4	1557.6	1218.9	801.4	622.7	52.9	10.3	7.7	9.7	11.6
32°	2109.3	2037.7	1786.0	1404.7	941.4	725.9	54.8	9.7	7.7	9.7	11.6
33°	2314.5	2218.4	1975.1	1582.8	1067.9	831.7	56.8	9.0	7.1	9.0	11.6
34°	2510.7	2422.3	2153.8	1726.7	1187.3	932.4	58.1	7.7	7.1	9.0	11.0
35°	2683.6	2581.0	2311.3	1867.3	1309.8	1024.0	58.1	7.1	6.5	8.4	11.0
36°	2795.9	2722.3	2448.1	2006.1	1420.8	1111.1	58.1	6.5	5.8	8.4	10.3
37°	2892.0	2806.2	2557.8	2112.5	1502.8	1180.8	58.1	5.8	5.8	8.4	10.3
38°	2931.4	2857.8	2633.2	2206.7	1579.6	1251.8	57.4	5.2	5.2	7.7	10.3
39°	2946.8	2881.0	2690.0	2274.5	1636.3	1299.5	56.1	4.5	5.2	7.7	10.3
40°	2926.8	2877.2	2719.1	2318.4	1681.5	1334.4	54.2	3.9	4.5	7.7	10.3
42.5°	2844.2	2811.3	2712.6	2362.2	1720.2	1360.2	47.1	2.6	4.5	7.1	10.3
45°	2770.7	2734.6	2647.4	2316.4	1669.9	1309.2	35.5	1.3	4.5	7.1	10.3
47.5°	2628.1	2605.5	2537.1	2199.6	1559.6	1194.4	25.2	0.6	3.9	6.5	9.7
50°	2342.2	2321.0	2230.6	1909.9	1341.5	1009.8	18.1	0.6	3.2	6.5	9.7
52.5°	2086.1	2063.5	1933.8	1588.0	1030.5	740.1	11.6	0.6	3.2	6.5	9.7
55°	1776.4	1737.0	1566.7	1205.3	730.4	496.2	8.4	0.6	3.2	5.8	9.7
57.5°	1315.0	1257.6	1105.3	822.0	420.7	269.1	4.5	0.6	3.2	5.8	9.7
60°	894.3	860.1	691.7	433.6	179.4	113.6	1.9	0.6	3.2	5.8	9.0
62.5°	542.0	498.8	347.8	184.5	77.4	51.6	0.0	1.3	3.2	5.8	9.0
65°	154.2	136.8	91.0	41.9	21.9	16.8	0.0	1.3	3.2	5.8	9.0
67.5°	5.2	5.2	5.2	4.5	3.2	3.2	0.6	1.3	3.2	5.8	8.4
70°	1.9	1.9	1.9	1.3	1.3	0.6	0.6	1.3	3.2	5.2	8.4
72.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	1.3	2.6	4.5	7.7
75°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.9	2.6	4.5	6.5
77.5°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.9	2.6	3.9	6.5
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.9	2.6	3.9	5.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.6	1.9	2.6	2.6	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	2.6	1.9	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	1.9	1.9	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):

	157.5°	180°
0°	29.7	29.7
2.5°	27.7	27.7
5°	25.8	25.8
7.5°	23.9	23.9
10°	21.9	21.9
12.5°	20.6	20.6
15°	18.7	19.4
17.5°	17.4	18.1
20°	16.8	17.4
21°	16.8	17.4
22°	16.1	16.8
23°	16.1	16.8
24°	15.5	16.1
25°	14.8	15.5
26°	14.8	15.5
27°	14.8	15.5
28°	14.2	15.5
29°	14.2	14.8
30°	14.2	14.8
31°	13.6	14.8
32°	13.6	14.8
33°	13.6	14.2
34°	12.9	14.2
35°	12.9	14.2
36°	12.9	14.2
37°	12.9	13.6
38°	12.9	14.2
39°	12.9	13.6
40°	12.9	13.6
42.5°	12.9	13.6
45°	12.9	13.6
47.5°	12.9	14.2
50°	12.9	14.2
52.5°	12.9	14.2
55°	12.9	14.2
57.5°	12.9	13.6
60°	12.9	13.6
62.5°	12.3	13.6
65°	12.3	12.9
67.5°	12.3	12.9
70°	11.6	12.3
72.5°	11.0	11.6
75°	9.7	11.0
77.5°	9.0	9.7
80°	7.7	8.4



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	6.5	6.5
85°	4.5	5.2
87.5°	2.6	2.6
90°	0.0	0.0

(END OF REPORT)