

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: P1305731

Luminaire Tested: P3SQASS09R259024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS09R259024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

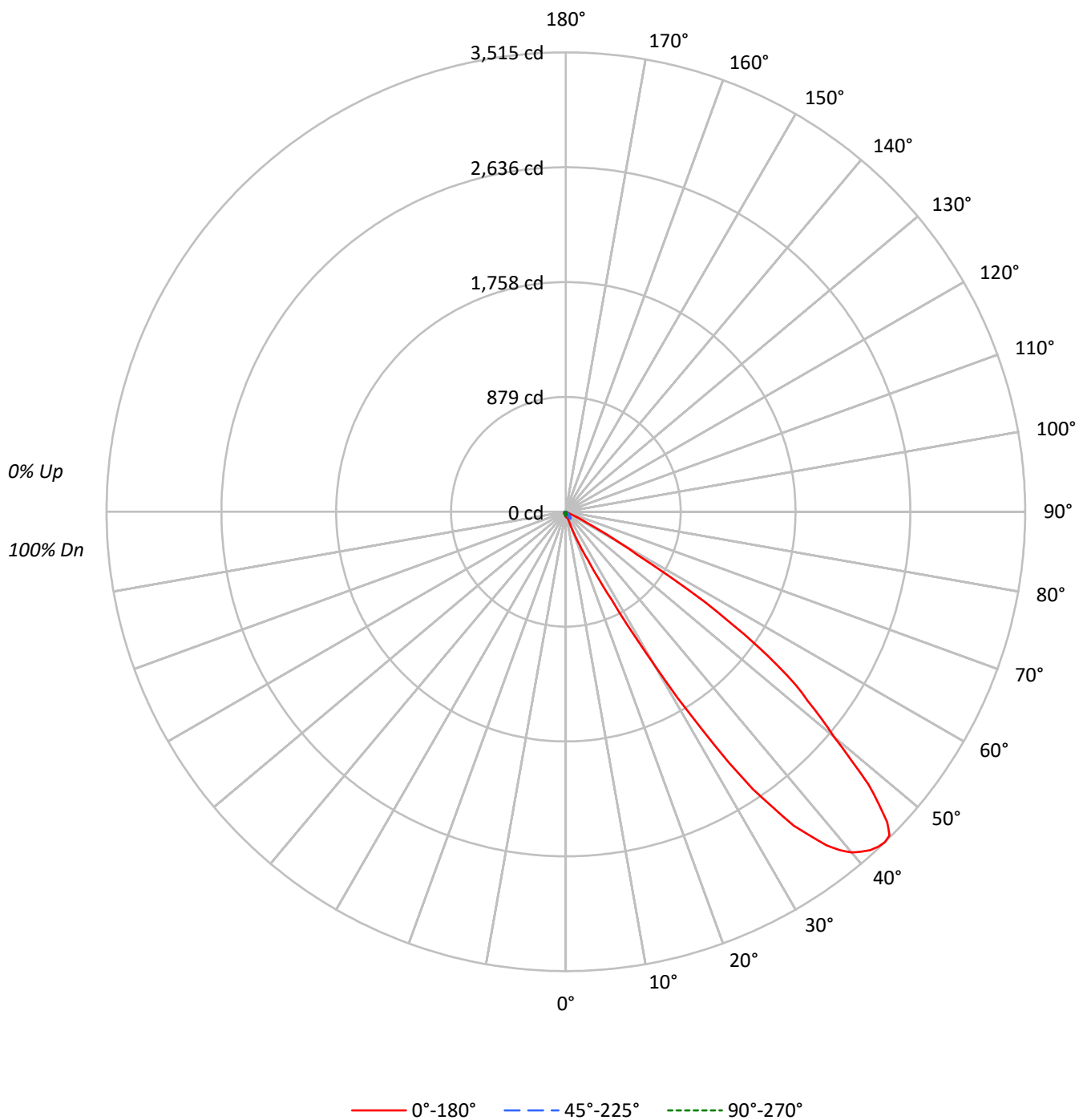
Lumens per Lamp: N/A
Luminaire Lumens: 733.0 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6441	6441	6441	6441	6441
5°	7365	7019	6241	5584	5463
10°	7327	6663	5299	4617	4617
15°	8166	5759	4137	3905	4137
20°	28848	5682	3189	3317	3666
25°	82985	7240	2565	3059	3553
30°	264750	11156	2048	2943	3599
35°	579877	13161	1766	2838	3658
40°	764952	11893	1461	2900	3912
45°	853067	8330	1413	3142	4238
50°	718082	4314	1393	3296	4662
55°	536867	1742	1351	3693	5225
60°	166195	448	1343	3996	5787
65°	14181	0	1589	4197	6316
70°	957	302	1611	4884	7150
75°	865	399	2129	5124	8185
80°	595	595	3174	5752	9620
85°	1186	1186	5138	6323	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 853067 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	8.6	1.2
20°-30°	40.6	5.5
30°-40°	195.2	26.6
40°-50°	306.0	41.8
50°-60°	156.9	21.4
60°-70°	14.8	2.0
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°	52.5	7.2
0°-40°	247.8	33.8
0°-60°	710.7	97.0
0°-90°	733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	43	41	36	32	32	4
15°	46	32	23	22	23	19
25°	437	38	14	16	19	271
35°	2758	63	8	14	17	1674
45°	3502	34	6	13	17	2563
55°	1788	6	4	12	17	1489
65°	35	0	4	10	16	109
75°	1	1	3	8	12	2
85°	1	1	3	3	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	40.6	40.6	40.6	40.6	40.6	40.6	40.0	40.0	40.6	40.0	40.0
5°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	41.9	41.9	41.9	40.6
7.5°	43.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	41.9	41.9	40.0
10°	41.9	41.9	41.9	41.9	41.3	41.3	41.3	40.6	40.6	40.6	38.1
12.5°	41.9	41.9	41.9	41.9	41.3	41.3	40.6	40.6	40.0	39.3	34.8
15°	45.8	45.8	45.8	45.2	44.5	43.9	43.2	42.6	41.9	40.6	32.3
17.5°	67.1	65.1	64.5	61.9	58.7	55.5	52.9	50.3	47.7	45.8	31.0
20°	157.4	156.7	153.5	145.8	137.4	127.7	118.0	107.1	91.6	81.3	31.0
22.5°	272.8	269.0	263.2	257.4	242.5	225.1	207.1	186.4	166.4	145.1	32.9
25°	436.7	445.7	426.4	410.9	385.1	353.5	319.3	290.9	254.8	221.2	38.1
27.5°	759.2	765.0	726.9	676.6	616.6	550.2	485.7	437.3	376.7	321.2	47.7
30°	1331.3	1337.1	1273.3	1166.2	1042.4	933.3	785.6	656.0	536.7	444.4	56.1
31°	1661.6	1616.4	1542.2	1438.4	1281.7	1117.2	939.8	783.1	632.1	510.9	58.7
32°	1948.6	1944.7	1858.3	1700.9	1543.5	1340.4	1120.4	915.9	730.8	577.9	60.6
33°	2287.3	2261.4	2139.5	1991.2	1782.8	1578.4	1294.6	1061.1	832.1	652.8	61.9
34°	2558.8	2489.1	2438.8	2269.2	2049.2	1788.6	1484.8	1214.6	958.5	725.0	62.6
35°	2758.1	2743.3	2645.2	2487.2	2263.4	1997.0	1690.0	1373.9	1064.3	808.9	62.6
36°	2969.0	2923.2	2827.8	2684.6	2466.6	2191.1	1846.7	1511.9	1187.5	884.3	61.9
37°	3101.3	3074.2	2979.4	2831.6	2618.1	2355.0	2022.1	1657.7	1285.5	959.8	60.6
38°	3237.4	3182.5	3089.0	2947.8	2738.1	2491.1	2149.2	1769.9	1375.8	1026.2	58.7
39°	3331.5	3274.8	3179.3	3038.7	2833.6	2588.5	2249.8	1865.4	1454.5	1075.9	56.1
40°	3402.5	3347.7	3250.9	3106.4	2903.9	2665.2	2333.7	1949.9	1520.3	1119.1	52.9
41°	3446.4	3395.4	3299.3	3155.5	2952.3	2709.1	2388.5	2004.7	1564.8	1148.1	49.7
42°	3483.1	3430.9	3332.8	3185.8	2981.9	2746.5	2422.1	2039.6	1595.1	1163.0	47.1
43°	3503.8	3451.5	3356.1	3205.8	3000.0	2763.9	2440.1	2055.7	1605.5	1161.0	42.6
44°	3515.4	3461.2	3365.1	3214.8	3007.7	2768.4	2441.4	2052.5	1598.4	1145.6	38.7
45°	3502.5	3448.9	3356.1	3205.8	2994.2	2754.2	2428.5	2035.0	1571.3	1115.2	34.2
46°	3418.6	3377.3	3292.2	3154.2	2951.6	2718.1	2395.6	2001.5	1529.3	1077.8	29.0
47°	3270.9	3238.0	3155.5	3052.9	2869.7	2651.7	2335.0	1937.6	1470.7	1021.7	23.2
48°	3116.7	3068.4	2991.6	2886.5	2731.7	2532.4	2235.0	1844.1	1381.6	948.2	20.6
49°	2889.1	2860.7	2792.9	2675.6	2547.2	2371.7	2093.7	1724.1	1272.6	868.2	18.1
50°	2680.1	2660.7	2565.9	2479.5	2343.4	2179.5	1902.2	1566.1	1137.2	768.9	16.1
51°	2516.9	2493.7	2425.3	2317.6	2172.4	1982.2	1720.9	1361.0	981.7	650.8	12.9
52°	2346.6	2333.7	2273.1	2162.1	2019.6	1829.9	1544.8	1186.8	830.8	550.2	10.3
53°	2207.3	2188.6	2114.4	2015.7	1861.5	1665.4	1353.9	1024.9	703.7	462.5	9.0
54°	2004.1	1996.3	1948.6	1845.4	1678.3	1464.8	1181.0	863.0	587.0	392.2	7.7
55°	1788.0	1762.2	1713.8	1631.9	1478.4	1279.1	981.1	715.3	474.7	330.3	5.8
56°	1524.8	1523.5	1437.1	1368.7	1232.6	1021.1	783.7	558.6	385.7	275.4	5.2
57°	1273.3	1232.6	1149.4	1081.7	935.3	774.7	581.8	418.6	301.9	223.2	3.9
58°	941.7	920.4	898.5	799.2	663.7	548.9	415.4	294.1	223.2	170.3	2.6
59°	639.2	638.6	612.8	537.3	459.3	341.9	259.3	200.0	153.5	125.1	1.9
60°	482.5	470.9	419.3	369.6	289.0	216.1	153.5	118.0	95.5	80.6	1.3
62.5°	169.0	175.4	154.2	127.7	97.4	80.0	61.3	49.7	40.6	32.9	0.0
65°	34.8	38.1	32.9	31.0	24.5	21.3	18.7	16.1	13.5	11.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	4.5	3.9	3.9	3.9	3.2	3.2	3.2	3.2	2.6	2.6	0.6
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3	0.6
72.5°	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
85°	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	39.3	38.1	36.1	35.5	34.8	34.8
5°	38.7	36.1	34.2	32.3	31.6	31.6
7.5°	36.8	33.5	31.0	29.7	29.0	28.4
10°	34.8	30.3	27.7	26.4	26.4	26.4
12.5°	31.0	27.1	24.5	23.9	24.5	24.5
15°	27.7	23.2	21.9	21.9	22.6	23.2
17.5°	23.9	20.6	19.4	20.0	20.6	21.3
20°	21.3	17.4	17.4	18.1	20.0	20.0
22.5°	18.7	15.5	15.5	17.4	18.7	19.4
25°	16.8	13.5	14.2	16.1	18.1	18.7
27.5°	14.2	11.6	12.9	15.5	17.4	18.1
30°	12.3	10.3	12.3	14.8	16.8	18.1
31°	11.6	9.7	12.3	14.2	16.8	18.1
32°	10.3	9.7	11.6	14.2	16.8	17.4
33°	9.7	9.0	11.6	14.2	16.8	17.4
34°	9.0	8.4	11.0	14.2	16.8	17.4
35°	7.7	8.4	11.0	13.5	16.1	17.4
36°	7.1	7.7	11.0	13.5	16.1	17.4
37°	6.5	7.7	10.3	13.5	16.1	17.4
38°	5.8	7.1	10.3	13.5	16.1	17.4
39°	5.2	7.1	9.7	13.5	16.1	17.4
40°	4.5	6.5	9.7	12.9	16.1	17.4
41°	4.5	6.5	9.7	12.9	16.1	17.4
42°	3.9	6.5	9.7	12.9	16.1	17.4
43°	3.2	5.8	9.7	12.9	16.1	17.4
44°	2.6	5.8	9.0	12.9	16.1	17.4
45°	2.6	5.8	9.0	12.9	16.1	17.4
46°	1.9	5.2	9.0	12.9	16.1	17.4
47°	1.3	5.2	9.0	12.3	16.1	17.4
48°	1.3	5.2	9.0	12.3	16.1	17.4
49°	1.3	5.2	8.4	12.3	16.1	17.4
50°	1.3	5.2	8.4	12.3	16.1	17.4
51°	0.6	4.5	8.4	12.3	16.1	17.4
52°	0.6	4.5	8.4	12.3	16.1	18.1
53°	0.6	4.5	8.4	12.3	16.1	17.4
54°	0.6	4.5	7.7	12.3	16.1	17.4
55°	0.6	4.5	7.7	12.3	16.1	17.4
56°	0.6	3.9	7.7	11.6	16.1	17.4
57°	1.3	3.9	7.7	11.6	16.1	16.8
58°	1.3	3.9	7.7	11.6	15.5	16.8
59°	1.3	3.9	7.7	11.6	15.5	16.8
60°	1.3	3.9	7.1	11.6	15.5	16.8
62.5°	1.3	3.9	7.1	11.0	14.8	16.1
65°	1.3	3.9	6.5	10.3	14.8	15.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.3	3.2	6.5	9.7	14.2	14.8
70°	1.9	3.2	5.8	9.7	13.5	14.2
72.5°	1.9	3.2	5.8	8.4	12.3	13.5
75°	1.9	3.2	5.2	7.7	11.6	12.3
77.5°	1.9	3.2	4.5	7.1	10.3	11.0
80°	2.6	3.2	3.9	5.8	9.0	9.7
82.5°	2.6	3.2	3.2	4.5	7.1	7.7
85°	1.9	2.6	2.6	3.2	4.5	5.2
87.5°	1.9	2.6	1.9	1.3	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)