

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: P1315168

Luminaire Tested: P3SQAS09R259740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315168
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: P3SQAS09R259740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

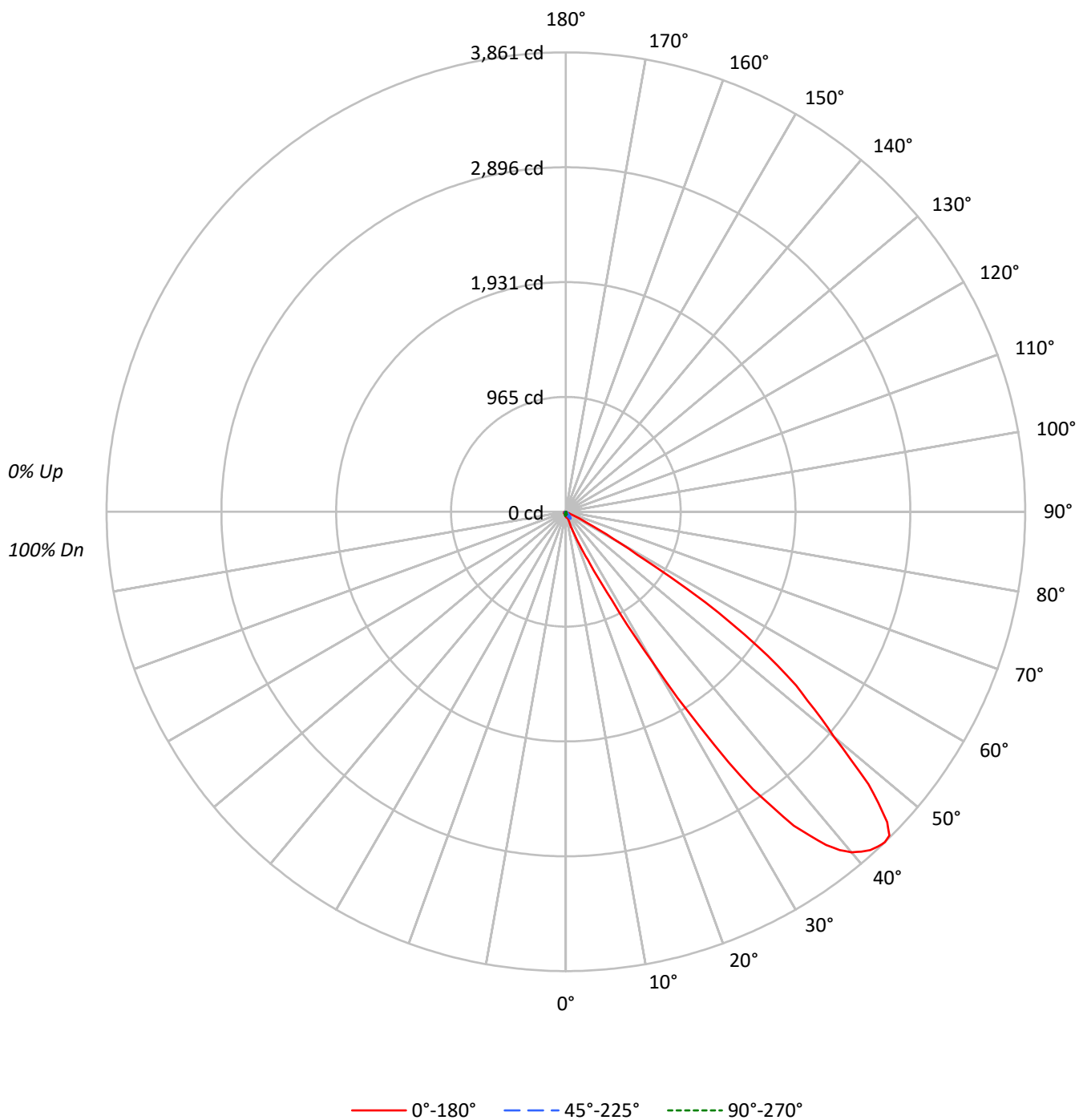
Lumens per Lamp: N/A
Luminaire Lumens: 805.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	7078	7078	7078	7078	7078
5°	8091	7710	6863	6120	5999
10°	8044	7310	5823	5072	5072
15°	8968	6312	4547	4297	4547
20°	31670	6231	3501	3629	4032
25°	91137	7943	2831	3363	3896
30°	290761	12250	2247	3242	3938
35°	636832	14444	1934	3133	4016
40°	840087	13062	1596	3192	4294
45°	936852	9133	1559	3459	4652
50°	788601	4742	1527	3617	5117
55°	589593	1922	1501	4054	5735
60°	182522	482	1481	4409	6338
65°	15608	0	1752	4605	6928
70°	1057	352	1762	5338	7855
75°	932	466	2329	5656	8983
80°	694	694	3471	6347	10513
85°	1383	1383	5533	6916	11263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 936852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.5
10°-20°	9.5	1.2
20°-30°	44.5	5.5
30°-40°	214.4	26.6
40°-50°	336.1	41.8
50°-60°	172.3	21.4
60°-70°	16.2	2.0
70°-80°	5.5	0.7
80°-90°	2.7	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°	57.7	7.2
0°-40°	272.1	33.8
0°-60°	780.5	97.0
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	47	45	40	35	35	4
15°	50	35	26	24	26	21
25°	480	42	15	18	20	297
35°	3029	69	9	15	19	1839
45°	3846	38	6	14	19	2815
55°	1964	6	5	14	19	1635
65°	38	0	4	11	17	120
75°	1	1	4	8	14	2
85°	1	1	3	4	6	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°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	44.6	44.6	44.6	44.6	44.6	44.6	43.9	43.9	44.6	43.9	43.9
5°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.0	46.0	46.0	44.6
7.5°	47.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.0	46.0	43.9
10°	46.0	46.0	46.0	46.0	45.3	45.3	45.3	44.6	44.6	44.6	41.8
12.5°	46.0	46.0	46.0	46.0	45.3	45.3	44.6	44.6	43.9	43.2	38.3
15°	50.3	50.3	50.3	49.6	48.9	48.2	47.5	46.8	46.0	44.6	35.4
17.5°	73.7	71.5	70.8	68.0	64.5	60.9	58.1	55.3	52.4	50.3	34.0
20°	172.8	172.1	168.6	160.1	150.9	140.3	129.6	117.6	100.6	89.3	34.0
22.5°	299.6	295.4	289.0	282.6	266.4	247.2	227.4	204.7	182.8	159.4	36.1
25°	479.6	489.5	468.2	451.2	422.9	388.2	350.6	319.5	279.8	243.0	41.8
27.5°	833.8	840.1	798.3	743.1	677.2	604.2	533.4	480.3	413.7	352.8	52.4
30°	1462.1	1468.5	1398.3	1280.8	1144.7	1025.0	862.8	720.4	589.4	488.1	61.6
31°	1824.8	1775.2	1693.7	1579.7	1407.6	1226.9	1032.1	860.0	694.2	561.0	64.5
32°	2140.0	2135.8	2040.8	1868.0	1695.2	1472.0	1230.5	1005.9	802.6	634.7	66.6
33°	2511.9	2483.6	2349.7	2186.8	1958.0	1733.4	1421.7	1165.3	913.8	716.9	68.0
34°	2810.1	2733.6	2678.4	2492.1	2250.5	1964.3	1630.7	1333.9	1052.7	796.2	68.7
35°	3029.0	3012.7	2905.1	2731.5	2485.7	2193.1	1856.0	1508.9	1168.8	888.3	68.7
36°	3260.7	3210.4	3105.5	2948.3	2708.8	2406.4	2028.1	1660.4	1304.1	971.2	68.0
37°	3405.9	3376.1	3272.0	3109.8	2875.3	2586.3	2220.8	1820.5	1411.8	1054.1	66.6
38°	3555.4	3495.2	3392.4	3237.3	3007.1	2735.8	2360.3	1943.8	1511.0	1127.0	64.5
39°	3658.8	3596.5	3491.6	3337.2	3111.9	2842.7	2470.8	2048.6	1597.4	1181.6	61.6
40°	3736.7	3676.5	3570.2	3411.6	3189.1	2927.0	2562.9	2141.4	1669.7	1229.0	58.1
41°	3784.9	3728.9	3623.4	3465.4	3242.3	2975.2	2623.1	2201.6	1718.5	1260.9	54.5
42°	3825.3	3767.9	3660.2	3498.7	3274.8	3016.3	2660.0	2239.9	1751.8	1277.2	51.7
43°	3847.9	3790.5	3685.7	3520.7	3294.7	3035.4	2679.8	2257.6	1763.2	1275.1	46.8
44°	3860.7	3801.2	3695.6	3530.6	3303.2	3040.4	2681.2	2254.1	1755.4	1258.1	42.5
45°	3846.5	3787.7	3685.7	3520.7	3288.3	3024.8	2667.1	2234.9	1725.6	1224.8	37.5
46°	3754.4	3709.1	3615.6	3464.0	3241.6	2985.1	2630.9	2198.1	1679.6	1183.7	31.9
47°	3592.2	3556.1	3465.4	3352.8	3151.6	2912.2	2564.3	2128.0	1615.1	1122.1	25.5
48°	3422.9	3369.8	3285.5	3170.0	3000.0	2781.1	2454.5	2025.3	1517.4	1041.3	22.7
49°	3172.8	3141.7	3067.3	2938.4	2797.4	2604.7	2299.4	1893.5	1397.6	953.5	19.8
50°	2943.3	2922.1	2817.9	2723.0	2573.5	2393.6	2089.0	1719.9	1248.9	844.4	17.7
51°	2764.1	2738.6	2663.5	2545.2	2385.8	2176.9	1890.0	1494.7	1078.2	714.8	14.2
52°	2577.1	2562.9	2496.3	2374.5	2217.9	2009.7	1696.6	1303.4	912.4	604.2	11.3
53°	2424.1	2403.5	2322.1	2213.7	2044.4	1829.0	1486.9	1125.6	772.8	507.9	9.9
54°	2200.9	2192.4	2140.0	2026.7	1843.2	1608.7	1297.0	947.8	644.6	430.7	8.5
55°	1963.6	1935.3	1882.2	1792.2	1623.6	1404.7	1077.4	785.6	521.4	362.7	6.4
56°	1674.6	1673.2	1578.3	1503.2	1353.7	1121.4	860.7	613.5	423.6	302.5	5.7
57°	1398.3	1353.7	1262.3	1188.0	1027.2	850.8	639.0	459.7	331.5	245.1	4.3
58°	1034.2	1010.9	986.8	877.7	728.9	602.8	456.2	323.0	245.1	187.0	2.8
59°	702.0	701.3	673.0	590.1	504.4	375.4	284.8	219.6	168.6	137.4	2.1
60°	529.9	517.1	460.4	405.9	317.4	237.3	168.6	129.6	104.8	88.5	1.4
62.5°	185.6	192.7	169.3	140.3	107.0	87.8	67.3	54.5	44.6	36.1	0.0
65°	38.3	41.8	36.1	34.0	26.9	23.4	20.5	17.7	14.9	12.8	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°	5.0	4.3	4.3	4.3	3.5	3.5	3.5	3.5	2.8	2.8	0.7
70°	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4	0.7
72.5°	2.1	2.1	2.1	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
85°	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	43.2	41.8	39.7	39.0	38.3	38.3
5°	42.5	39.7	37.5	35.4	34.7	34.7
7.5°	40.4	36.8	34.0	32.6	31.9	31.2
10°	38.3	33.3	30.5	29.0	29.0	29.0
12.5°	34.0	29.8	26.9	26.2	26.9	26.9
15°	30.5	25.5	24.1	24.1	24.8	25.5
17.5°	26.2	22.7	21.3	22.0	22.7	23.4
20°	23.4	19.1	19.1	19.8	22.0	22.0
22.5°	20.5	17.0	17.0	19.1	20.5	21.3
25°	18.4	14.9	15.6	17.7	19.8	20.5
27.5°	15.6	12.8	14.2	17.0	19.1	19.8
30°	13.5	11.3	13.5	16.3	18.4	19.8
31°	12.8	10.6	13.5	15.6	18.4	19.8
32°	11.3	10.6	12.8	15.6	18.4	19.1
33°	10.6	9.9	12.8	15.6	18.4	19.1
34°	9.9	9.2	12.0	15.6	18.4	19.1
35°	8.5	9.2	12.0	14.9	17.7	19.1
36°	7.8	8.5	12.0	14.9	17.7	19.1
37°	7.1	8.5	11.3	14.9	17.7	19.1
38°	6.4	7.8	11.3	14.9	17.7	19.1
39°	5.7	7.8	10.6	14.9	17.7	19.1
40°	5.0	7.1	10.6	14.2	17.7	19.1
41°	5.0	7.1	10.6	14.2	17.7	19.1
42°	4.3	7.1	10.6	14.2	17.7	19.1
43°	3.5	6.4	10.6	14.2	17.7	19.1
44°	2.8	6.4	9.9	14.2	17.7	19.1
45°	2.8	6.4	9.9	14.2	17.7	19.1
46°	2.1	5.7	9.9	14.2	17.7	19.1
47°	1.4	5.7	9.9	13.5	17.7	19.1
48°	1.4	5.7	9.9	13.5	17.7	19.1
49°	1.4	5.7	9.2	13.5	17.7	19.1
50°	1.4	5.7	9.2	13.5	17.7	19.1
51°	0.7	5.0	9.2	13.5	17.7	19.1
52°	0.7	5.0	9.2	13.5	17.7	19.8
53°	0.7	5.0	9.2	13.5	17.7	19.1
54°	0.7	5.0	8.5	13.5	17.7	19.1
55°	0.7	5.0	8.5	13.5	17.7	19.1
56°	0.7	4.3	8.5	12.8	17.7	19.1
57°	1.4	4.3	8.5	12.8	17.7	18.4
58°	1.4	4.3	8.5	12.8	17.0	18.4
59°	1.4	4.3	8.5	12.8	17.0	18.4
60°	1.4	4.3	7.8	12.8	17.0	18.4
62.5°	1.4	4.3	7.8	12.0	16.3	17.7
65°	1.4	4.3	7.1	11.3	16.3	17.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.4	3.5	7.1	10.6	15.6	16.3
70°	2.1	3.5	6.4	10.6	14.9	15.6
72.5°	2.1	3.5	6.4	9.2	13.5	14.9
75°	2.1	3.5	5.7	8.5	12.8	13.5
77.5°	2.1	3.5	5.0	7.8	11.3	12.0
80°	2.8	3.5	4.3	6.4	9.9	10.6
82.5°	2.8	3.5	3.5	5.0	7.8	8.5
85°	2.1	2.8	2.8	3.5	5.0	5.7
87.5°	2.1	2.8	2.1	1.4	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)