

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: P1314196

Luminaire Tested: P3SQAS09R259735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314196
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: P3SQAS09R259735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

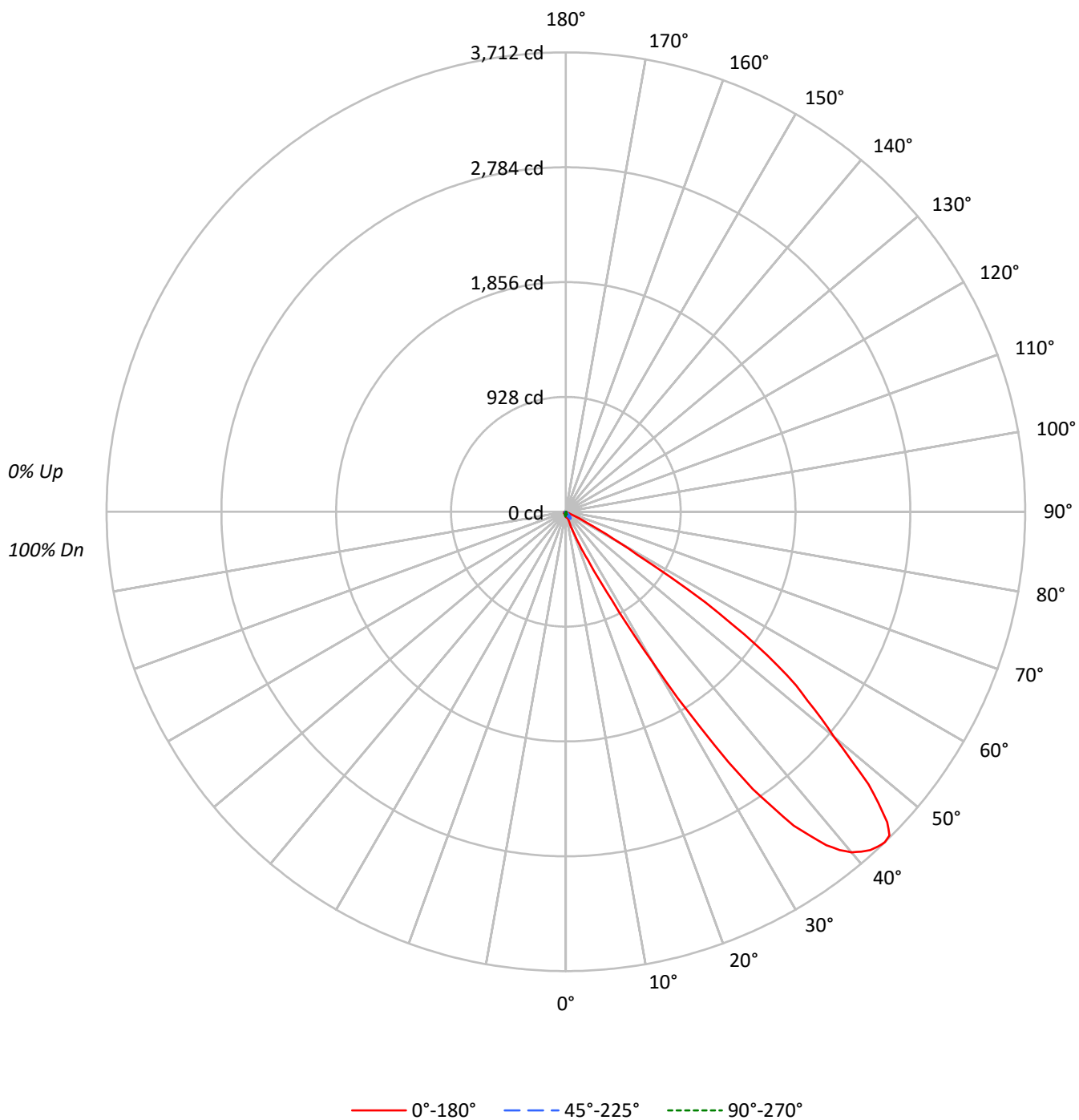
Lumens per Lamp: N/A
Luminaire Lumens: 774.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	6803	6803	6803	6803	6803
5°	7780	7417	6587	5895	5774
10°	7747	7030	5596	4879	4879
15°	8630	6080	4368	4137	4368
20°	30460	5993	3372	3501	3867
25°	87621	7639	2717	3230	3763
30°	279565	11793	2168	3122	3798
35°	612318	13897	1871	3007	3869
40°	807736	12567	1529	3058	4137
45°	900781	8793	1486	3312	4481
50°	758244	4555	1447	3456	4930
55°	566893	1832	1441	3873	5525
60°	175495	482	1412	4237	6097
65°	14996	0	1671	4442	6642
70°	1007	352	1712	5136	7553
75°	932	466	2262	5456	8584
80°	694	694	3372	6050	10116
85°	1383	1383	5335	6719	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 900781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	9.1	1.2
20°-30°	42.8	5.5
30°-40°	206.2	26.6
40°-50°	323.2	41.8
50°-60°	165.7	21.4
60°-70°	15.6	2.0
70°-80°	5.3	0.7
80°-90°	2.6	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°	55.5	7.2
0°-40°	261.7	33.8
0°-60°	750.5	97.0
0°-90°	774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	45	43	38	34	33	4
15°	48	34	24	23	24	20
25°	461	40	14	17	20	286
35°	2912	66	9	14	18	1768
45°	3698	36	6	14	18	2706
55°	1888	6	5	13	18	1572
65°	37	0	4	11	16	115
75°	1	1	3	8	13	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°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	42.9	42.9	42.9	42.9	42.9	42.9	42.2	42.2	42.9	42.2	42.2
5°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.3	44.3	44.3	42.9
7.5°	45.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.3	44.3	42.2
10°	44.3	44.3	44.3	44.3	43.6	43.6	43.6	42.9	42.9	42.9	40.2
12.5°	44.3	44.3	44.3	44.3	43.6	43.6	42.9	42.9	42.2	41.5	36.8
15°	48.4	48.4	48.4	47.7	47.0	46.3	45.6	45.0	44.3	42.9	34.1
17.5°	70.8	68.8	68.1	65.4	62.0	58.6	55.9	53.1	50.4	48.4	32.7
20°	166.2	165.5	162.1	153.9	145.1	134.9	124.6	113.1	96.7	85.8	32.7
22.5°	288.1	284.0	277.9	271.8	256.1	237.7	218.6	196.8	175.7	153.2	34.7
25°	461.1	470.6	450.2	433.9	406.6	373.2	337.1	307.2	269.0	233.6	40.2
27.5°	801.7	807.8	767.6	714.5	651.1	581.0	512.9	461.8	397.8	339.2	50.4
30°	1405.8	1411.9	1344.5	1231.4	1100.7	985.6	829.6	692.7	566.7	469.3	59.3
31°	1754.5	1706.8	1628.5	1518.9	1353.3	1179.7	992.4	826.9	667.5	539.4	62.0
32°	2057.6	2053.5	1962.3	1796.1	1629.9	1415.3	1183.1	967.2	771.7	610.3	64.0
33°	2415.2	2387.9	2259.2	2102.6	1882.6	1666.7	1367.0	1120.4	878.6	689.3	65.4
34°	2701.9	2628.4	2575.2	2396.1	2163.9	1888.7	1567.9	1282.5	1012.1	765.6	66.1
35°	2912.4	2896.7	2793.2	2626.3	2390.0	2108.7	1784.5	1450.7	1123.8	854.1	66.1
36°	3135.1	3086.8	2986.0	2834.7	2604.5	2313.7	1950.0	1596.5	1253.9	933.8	65.4
37°	3274.7	3246.1	3146.0	2990.0	2764.6	2486.7	2135.3	1750.4	1357.4	1013.5	64.0
38°	3418.4	3360.6	3261.8	3112.6	2891.3	2630.4	2269.4	1868.9	1452.8	1083.6	62.0
39°	3517.9	3458.0	3357.2	3208.7	2992.1	2733.3	2375.7	1969.7	1535.9	1136.1	59.3
40°	3592.8	3534.9	3432.8	3280.2	3066.3	2814.3	2464.2	2059.0	1605.4	1181.7	55.9
41°	3639.1	3585.3	3483.8	3331.9	3117.4	2860.6	2522.1	2116.9	1652.4	1212.4	52.4
42°	3677.9	3622.8	3519.3	3364.0	3148.7	2900.1	2557.5	2153.6	1684.4	1228.0	49.7
43°	3699.7	3644.6	3543.8	3385.1	3167.8	2918.5	2576.6	2170.7	1695.3	1226.0	45.0
44°	3712.0	3654.8	3553.3	3394.6	3176.0	2923.3	2578.0	2167.3	1687.8	1209.6	40.9
45°	3698.4	3641.9	3543.8	3385.1	3161.7	2908.3	2564.3	2148.9	1659.2	1177.6	36.1
46°	3609.8	3566.2	3476.3	3330.6	3116.7	2870.2	2529.6	2113.5	1614.9	1138.1	30.6
47°	3453.9	3419.1	3331.9	3223.7	3030.2	2800.0	2465.6	2046.0	1552.9	1078.9	24.5
48°	3291.1	3240.0	3159.0	3047.9	2884.5	2674.0	2360.0	1947.3	1458.9	1001.2	21.8
49°	3050.7	3020.7	2949.2	2825.2	2689.7	2504.4	2210.9	1820.6	1343.8	916.8	19.1
50°	2830.0	2809.5	2709.4	2618.2	2474.4	2301.4	2008.6	1653.7	1200.8	811.9	17.0
51°	2657.7	2633.1	2560.9	2447.2	2294.0	2093.0	1817.2	1437.1	1036.6	687.2	13.6
52°	2477.8	2464.2	2400.2	2283.1	2132.5	1932.3	1631.2	1253.2	877.3	581.0	10.9
53°	2330.7	2311.0	2232.7	2128.4	1965.7	1758.6	1429.6	1082.3	743.1	488.3	9.5
54°	2116.2	2108.0	2057.6	1948.6	1772.2	1546.8	1247.1	911.3	619.8	414.1	8.2
55°	1888.0	1860.8	1809.7	1723.2	1561.1	1350.6	1036.0	755.3	501.3	348.7	6.1
56°	1610.1	1608.8	1517.5	1445.3	1301.6	1078.2	827.5	589.8	407.3	290.8	5.4
57°	1344.5	1301.6	1213.7	1142.2	987.6	818.0	614.4	442.0	318.8	235.7	4.1
58°	994.4	971.9	948.8	843.9	700.9	579.6	438.6	310.6	235.7	179.8	2.7
59°	675.0	674.3	647.0	567.4	484.9	361.0	273.8	211.1	162.1	132.1	2.0
60°	509.5	497.2	442.7	390.3	305.1	228.2	162.1	124.6	100.8	85.1	1.4
62.5°	178.4	185.3	162.8	134.9	102.8	84.5	64.7	52.4	42.9	34.7	0.0
65°	36.8	40.2	34.7	32.7	25.9	22.5	19.8	17.0	14.3	12.3	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°	4.8	4.1	4.1	4.1	3.4	3.4	3.4	3.4	2.7	2.7	0.7
70°	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4	0.7
72.5°	2.0	2.0	2.0	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°	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	41.5	40.2	38.1	37.5	36.8	36.8
5°	40.9	38.1	36.1	34.1	33.4	33.4
7.5°	38.8	35.4	32.7	31.3	30.6	30.0
10°	36.8	32.0	29.3	27.9	27.9	27.9
12.5°	32.7	28.6	25.9	25.2	25.9	25.9
15°	29.3	24.5	23.2	23.2	23.8	24.5
17.5°	25.2	21.8	20.4	21.1	21.8	22.5
20°	22.5	18.4	18.4	19.1	21.1	21.1
22.5°	19.8	16.3	16.3	18.4	19.8	20.4
25°	17.7	14.3	15.0	17.0	19.1	19.8
27.5°	15.0	12.3	13.6	16.3	18.4	19.1
30°	12.9	10.9	12.9	15.7	17.7	19.1
31°	12.3	10.2	12.9	15.0	17.7	19.1
32°	10.9	10.2	12.3	15.0	17.7	18.4
33°	10.2	9.5	12.3	15.0	17.7	18.4
34°	9.5	8.9	11.6	15.0	17.7	18.4
35°	8.2	8.9	11.6	14.3	17.0	18.4
36°	7.5	8.2	11.6	14.3	17.0	18.4
37°	6.8	8.2	10.9	14.3	17.0	18.4
38°	6.1	7.5	10.9	14.3	17.0	18.4
39°	5.4	7.5	10.2	14.3	17.0	18.4
40°	4.8	6.8	10.2	13.6	17.0	18.4
41°	4.8	6.8	10.2	13.6	17.0	18.4
42°	4.1	6.8	10.2	13.6	17.0	18.4
43°	3.4	6.1	10.2	13.6	17.0	18.4
44°	2.7	6.1	9.5	13.6	17.0	18.4
45°	2.7	6.1	9.5	13.6	17.0	18.4
46°	2.0	5.4	9.5	13.6	17.0	18.4
47°	1.4	5.4	9.5	12.9	17.0	18.4
48°	1.4	5.4	9.5	12.9	17.0	18.4
49°	1.4	5.4	8.9	12.9	17.0	18.4
50°	1.4	5.4	8.9	12.9	17.0	18.4
51°	0.7	4.8	8.9	12.9	17.0	18.4
52°	0.7	4.8	8.9	12.9	17.0	19.1
53°	0.7	4.8	8.9	12.9	17.0	18.4
54°	0.7	4.8	8.2	12.9	17.0	18.4
55°	0.7	4.8	8.2	12.9	17.0	18.4
56°	0.7	4.1	8.2	12.3	17.0	18.4
57°	1.4	4.1	8.2	12.3	17.0	17.7
58°	1.4	4.1	8.2	12.3	16.3	17.7
59°	1.4	4.1	8.2	12.3	16.3	17.7
60°	1.4	4.1	7.5	12.3	16.3	17.7
62.5°	1.4	4.1	7.5	11.6	15.7	17.0
65°	1.4	4.1	6.8	10.9	15.7	16.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.4	3.4	6.8	10.2	15.0	15.7
70°	2.0	3.4	6.1	10.2	14.3	15.0
72.5°	2.0	3.4	6.1	8.9	12.9	14.3
75°	2.0	3.4	5.4	8.2	12.3	12.9
77.5°	2.0	3.4	4.8	7.5	10.9	11.6
80°	2.7	3.4	4.1	6.1	9.5	10.2
82.5°	2.7	3.4	3.4	4.8	7.5	8.2
85°	2.0	2.7	2.7	3.4	4.8	5.4
87.5°	2.0	2.7	2.0	1.4	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)