

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: P1310057

Luminaire Tested: P3SQAS09R259040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310057
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: P3SQAS09R259040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

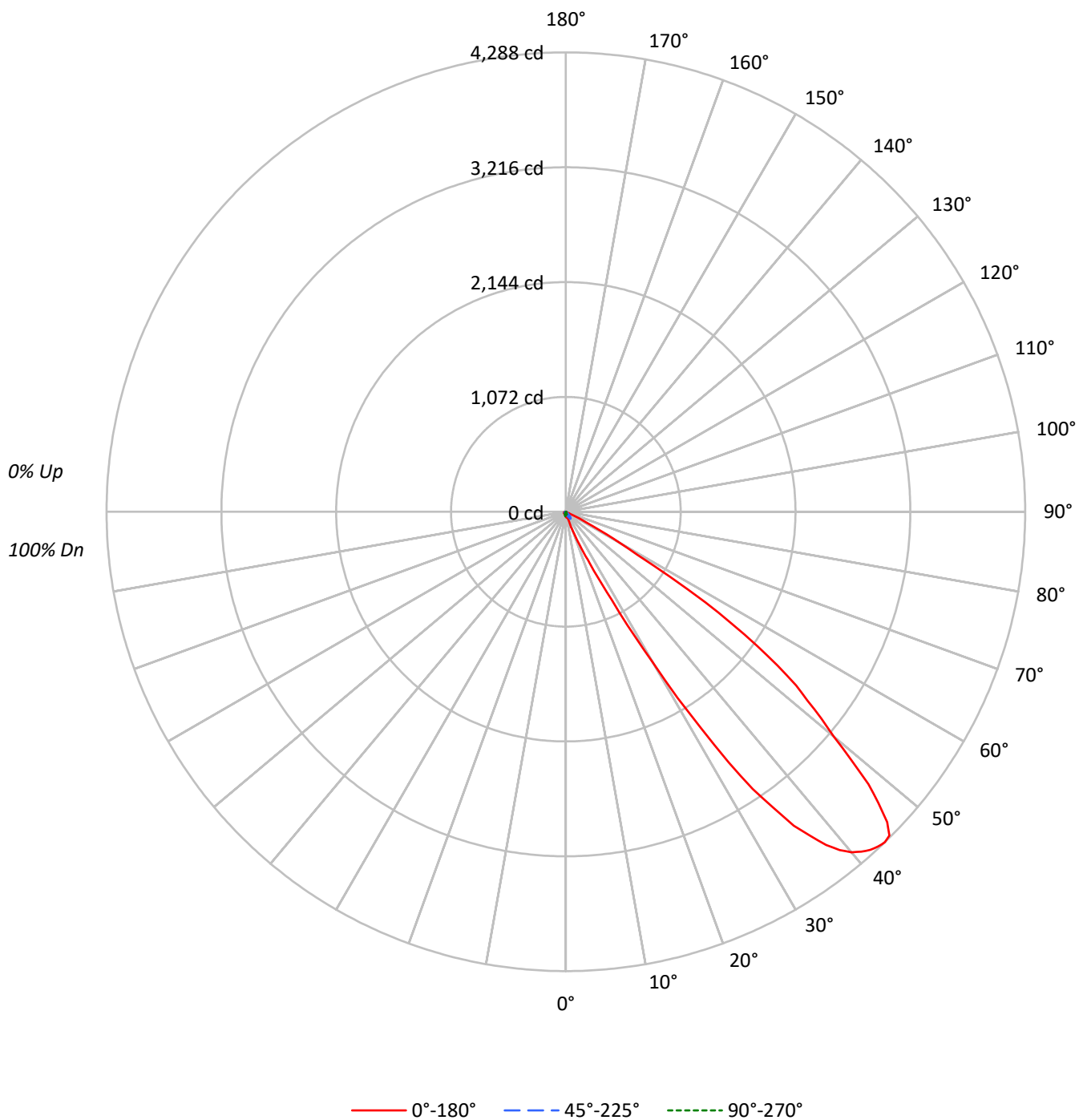
Lumens per Lamp: N/A
Luminaire Lumens: 894.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	7853	7853	7853	7853	7853
5°	8972	8575	7624	6794	6656
10°	8936	8114	6471	5649	5649
15°	9967	7007	5046	4761	5046
20°	35189	6928	3885	4032	4472
25°	101208	8817	3135	3744	4333
30°	322898	13602	2506	3599	4375
35°	707243	16042	2144	3469	4457
40°	932961	14501	1776	3530	4766
45°	1040438	10156	1729	3824	5163
50°	875786	5278	1688	3992	5680
55°	654779	2132	1651	4474	6366
60°	202706	551	1619	4891	7061
65°	17319	0	1915	5135	7702
70°	1209	403	1964	5942	8711
75°	1065	532	2595	6255	9915
80°	793	793	3868	7042	11703
85°	1581	1581	6126	7707	12449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1040438 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	10.5	1.2
20°-30°	49.5	5.5
30°-40°	238.1	26.6
40°-50°	373.3	41.8
50°-60°	191.4	21.4
60°-70°	18.1	2.0
70°-80°	6.1	0.7
80°-90°	3.0	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°	64.1	7.2
0°-40°	302.2	33.8
0°-60°	866.8	97.0
0°-90°	894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	52	50	44	39	38	5
15°	56	39	28	27	28	24
25°	533	46	16	20	23	330
35°	3364	76	10	16	21	2042
45°	4272	42	7	16	21	3126
55°	2181	7	6	15	21	1815
65°	42	0	5	13	19	133
75°	2	1	4	9	15	2
85°	1	1	3	4	6	1
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°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
2.5°	49.6	49.6	49.6	49.6	49.6	49.6	48.8	48.8	49.6	48.8	48.8
5°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.1	51.1	51.1	49.6
7.5°	52.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.1	51.1	48.8
10°	51.1	51.1	51.1	51.1	50.3	50.3	50.3	49.6	49.6	49.6	46.4
12.5°	51.1	51.1	51.1	51.1	50.3	50.3	49.6	49.6	48.8	48.0	42.5
15°	55.9	55.9	55.9	55.1	54.3	53.5	52.7	51.9	51.1	49.6	39.3
17.5°	81.8	79.5	78.7	75.5	71.6	67.7	64.5	61.4	58.2	55.9	37.8
20°	192.0	191.2	187.2	177.8	167.6	155.8	144.0	130.6	111.7	99.1	37.8
22.5°	332.8	328.1	321.0	313.9	295.8	274.6	252.5	227.4	203.0	177.0	40.1
25°	532.6	543.6	520.0	501.1	469.7	431.1	389.4	354.8	310.7	269.8	46.4
27.5°	925.9	933.0	886.6	825.2	752.1	671.1	592.4	533.4	459.4	391.8	58.2
30°	1623.7	1630.8	1552.9	1422.4	1271.3	1138.4	958.2	800.1	654.5	542.0	68.4
31°	2026.5	1971.5	1881.0	1754.3	1563.2	1362.6	1146.2	955.1	771.0	623.1	71.6
32°	2376.6	2371.9	2266.5	2074.5	1882.6	1634.8	1366.5	1117.1	891.3	704.9	73.9
33°	2789.6	2758.2	2609.5	2428.5	2174.4	1925.1	1578.9	1294.1	1014.8	796.1	75.5
34°	3120.8	3035.9	2974.5	2767.6	2499.3	2181.5	1811.0	1481.4	1169.0	884.2	76.3
35°	3363.9	3345.8	3226.3	3033.5	2760.5	2435.6	2061.2	1675.7	1298.1	986.5	76.3
36°	3621.2	3565.3	3448.9	3274.2	3008.3	2672.4	2252.3	1844.0	1448.3	1078.6	75.5
37°	3782.4	3749.4	3633.8	3453.6	3193.2	2872.2	2466.3	2021.8	1567.9	1170.6	73.9
38°	3948.4	3881.6	3767.5	3595.2	3339.5	3038.2	2621.3	2158.7	1678.0	1251.6	71.6
39°	4063.3	3994.1	3877.6	3706.1	3456.0	3157.0	2744.0	2275.1	1774.0	1312.2	68.4
40°	4149.8	4083.0	3965.0	3788.7	3541.7	3250.6	2846.3	2378.2	1854.2	1364.9	64.5
41°	4203.3	4141.2	4024.0	3848.5	3600.7	3304.1	2913.1	2445.1	1908.5	1400.3	60.6
42°	4248.2	4184.5	4064.9	3885.5	3636.9	3349.8	2954.1	2487.5	1945.5	1418.4	57.4
43°	4273.3	4209.6	4093.2	3909.9	3658.9	3371.0	2976.1	2507.2	1958.1	1416.1	51.9
44°	4287.5	4221.4	4104.2	3920.9	3668.4	3376.5	2977.7	2503.3	1949.4	1397.2	47.2
45°	4271.8	4206.5	4093.2	3909.9	3651.9	3359.2	2961.9	2482.0	1916.4	1360.2	41.7
46°	4169.5	4119.2	4015.3	3847.0	3599.9	3315.1	2921.8	2441.1	1865.3	1314.6	35.4
47°	3989.4	3949.2	3848.5	3723.4	3500.0	3234.1	2847.9	2363.2	1793.7	1246.1	28.3
48°	3801.3	3742.3	3648.7	3520.5	3331.7	3088.6	2725.9	2249.2	1685.1	1156.4	25.2
49°	3523.6	3489.0	3406.4	3263.2	3106.7	2892.7	2553.6	2102.8	1552.2	1058.9	22.0
50°	3268.7	3245.1	3129.5	3024.1	2858.1	2658.3	2320.0	1910.1	1387.0	937.7	19.7
51°	3069.7	3041.4	2958.0	2826.6	2649.6	2417.5	2098.9	1659.9	1197.4	793.8	15.7
52°	2862.0	2846.3	2772.3	2637.0	2463.2	2231.9	1884.1	1447.5	1013.3	671.1	12.6
53°	2692.1	2669.3	2578.8	2458.4	2270.4	2031.3	1651.3	1250.1	858.3	564.1	11.0
54°	2444.3	2434.8	2376.6	2250.7	2047.0	1786.6	1440.4	1052.6	715.9	478.3	9.4
55°	2180.7	2149.3	2090.3	1990.3	1803.1	1560.0	1196.6	872.4	579.0	402.8	7.1
56°	1859.8	1858.2	1752.8	1669.4	1503.4	1245.3	955.8	681.3	470.4	335.9	6.3
57°	1552.9	1503.4	1401.9	1319.3	1140.7	944.8	709.6	510.6	368.2	272.2	4.7
58°	1148.6	1122.6	1095.9	974.7	809.5	669.5	506.6	358.7	272.2	207.7	3.1
59°	779.6	778.8	747.4	655.3	560.1	417.0	316.3	243.9	187.2	152.6	2.4
60°	588.5	574.3	511.4	450.8	352.4	263.5	187.2	144.0	116.4	98.3	1.6
62.5°	206.1	214.0	188.0	155.8	118.8	97.6	74.7	60.6	49.6	40.1	0.0
65°	42.5	46.4	40.1	37.8	29.9	26.0	22.8	19.7	16.5	14.2	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°	5.5	4.7	4.7	4.7	3.9	3.9	3.9	3.9	3.1	3.1	0.8
70°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	0.8
72.5°	2.4	2.4	2.4	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	45.6	45.6	45.6	45.6	45.6	45.6
2.5°	48.0	46.4	44.1	43.3	42.5	42.5
5°	47.2	44.1	41.7	39.3	38.5	38.5
7.5°	44.8	40.9	37.8	36.2	35.4	34.6
10°	42.5	37.0	33.8	32.3	32.3	32.3
12.5°	37.8	33.0	29.9	29.1	29.9	29.9
15°	33.8	28.3	26.7	26.7	27.5	28.3
17.5°	29.1	25.2	23.6	24.4	25.2	26.0
20°	26.0	21.2	21.2	22.0	24.4	24.4
22.5°	22.8	18.9	18.9	21.2	22.8	23.6
25°	20.5	16.5	17.3	19.7	22.0	22.8
27.5°	17.3	14.2	15.7	18.9	21.2	22.0
30°	14.9	12.6	14.9	18.1	20.5	22.0
31°	14.2	11.8	14.9	17.3	20.5	22.0
32°	12.6	11.8	14.2	17.3	20.5	21.2
33°	11.8	11.0	14.2	17.3	20.5	21.2
34°	11.0	10.2	13.4	17.3	20.5	21.2
35°	9.4	10.2	13.4	16.5	19.7	21.2
36°	8.7	9.4	13.4	16.5	19.7	21.2
37°	7.9	9.4	12.6	16.5	19.7	21.2
38°	7.1	8.7	12.6	16.5	19.7	21.2
39°	6.3	8.7	11.8	16.5	19.7	21.2
40°	5.5	7.9	11.8	15.7	19.7	21.2
41°	5.5	7.9	11.8	15.7	19.7	21.2
42°	4.7	7.9	11.8	15.7	19.7	21.2
43°	3.9	7.1	11.8	15.7	19.7	21.2
44°	3.1	7.1	11.0	15.7	19.7	21.2
45°	3.1	7.1	11.0	15.7	19.7	21.2
46°	2.4	6.3	11.0	15.7	19.7	21.2
47°	1.6	6.3	11.0	14.9	19.7	21.2
48°	1.6	6.3	11.0	14.9	19.7	21.2
49°	1.6	6.3	10.2	14.9	19.7	21.2
50°	1.6	6.3	10.2	14.9	19.7	21.2
51°	0.8	5.5	10.2	14.9	19.7	21.2
52°	0.8	5.5	10.2	14.9	19.7	22.0
53°	0.8	5.5	10.2	14.9	19.7	21.2
54°	0.8	5.5	9.4	14.9	19.7	21.2
55°	0.8	5.5	9.4	14.9	19.7	21.2
56°	0.8	4.7	9.4	14.2	19.7	21.2
57°	1.6	4.7	9.4	14.2	19.7	20.5
58°	1.6	4.7	9.4	14.2	18.9	20.5
59°	1.6	4.7	9.4	14.2	18.9	20.5
60°	1.6	4.7	8.7	14.2	18.9	20.5
62.5°	1.6	4.7	8.7	13.4	18.1	19.7
65°	1.6	4.7	7.9	12.6	18.1	18.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.6	3.9	7.9	11.8	17.3	18.1
70°	2.4	3.9	7.1	11.8	16.5	17.3
72.5°	2.4	3.9	7.1	10.2	14.9	16.5
75°	2.4	3.9	6.3	9.4	14.2	14.9
77.5°	2.4	3.9	5.5	8.7	12.6	13.4
80°	3.1	3.9	4.7	7.1	11.0	11.8
82.5°	3.1	3.9	3.9	5.5	8.7	9.4
85°	2.4	3.1	3.1	3.9	5.5	6.3
87.5°	2.4	3.1	2.4	1.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)