

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: P1306056

Luminaire Tested: P3SQAS17R259024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306056
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: P3SQAS17R259024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

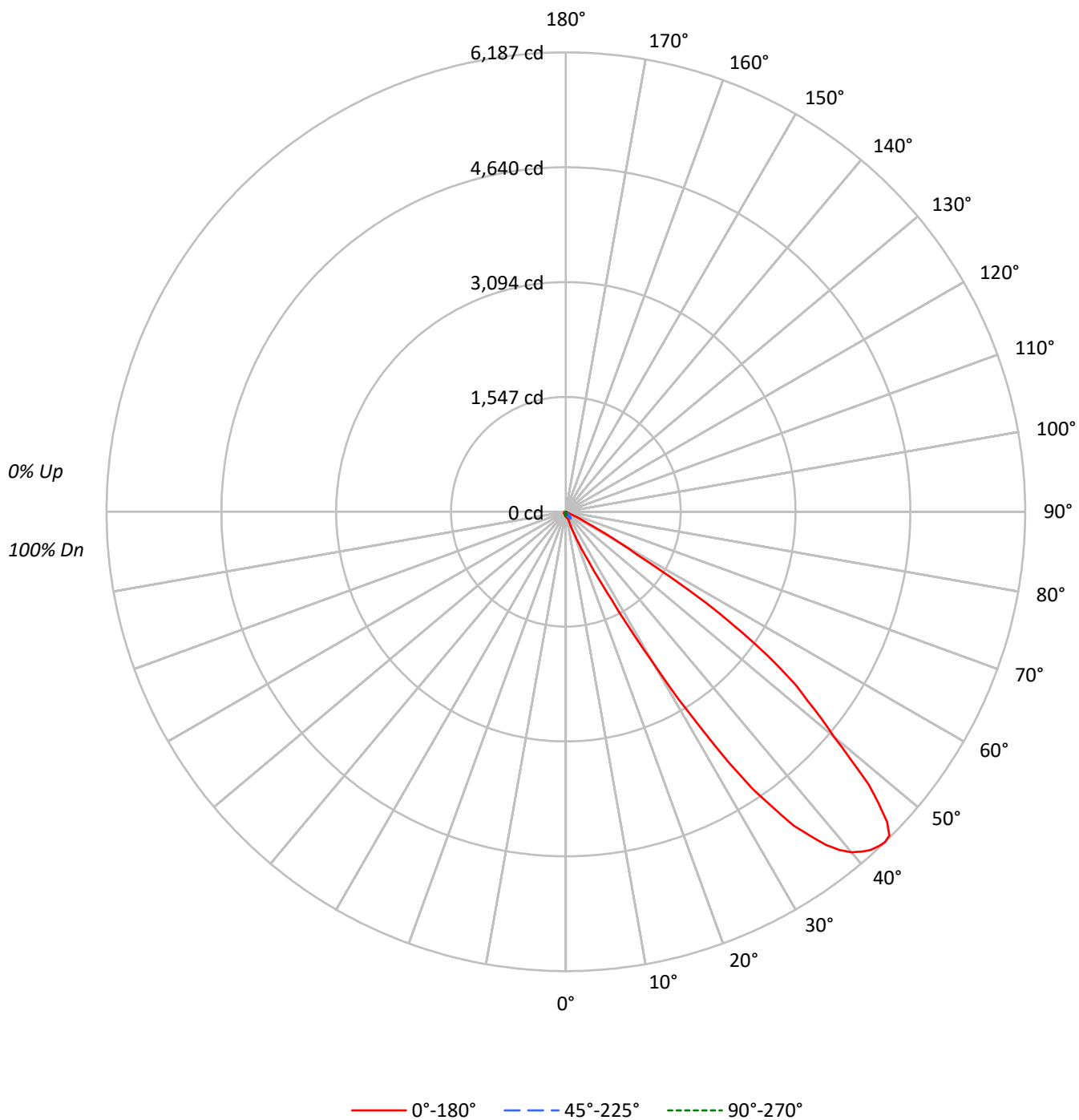
Lumens per Lamp: N/A
Luminaire Lumens: 1290.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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°	11332	11332	11332	11332	11332
5°	12949	12361	10995	9820	9612
10°	12906	11717	9339	8132	8132
15°	14371	10127	7292	6882	7292
20°	50767	9989	5608	5828	6451
25°	146035	12732	4523	5397	6252
30°	465942	19648	3619	5190	6324
35°	1020529	23148	3112	5004	6433
40°	1346226	20931	2563	5103	6880
45°	1501301	14662	2484	5529	7453
50°	1263723	7609	2438	5787	8199
55°	944831	3063	2372	6486	9188
60°	292468	792	2342	7027	10161
65°	24981	0	2771	7417	11084
70°	1712	554	2870	8560	12589
75°	1530	732	3793	9050	14373
80°	1091	1091	5653	10116	16860
85°	2174	2174	8892	11263	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1501301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.5
10°-20°	15.2	1.2
20°-30°	71.4	5.5
30°-40°	343.6	26.6
40°-50°	538.6	41.8
50°-60°	276.1	21.4
60°-70°	26.0	2.0
70°-80°	8.8	0.7
80°-90°	4.4	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°	92.5	7.2
0°-40°	436.1	33.8
0°-60°	1250.8	97.0
0°-90°	1290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	75	72	64	57	56	7
15°	81	57	41	39	41	34
25°	768	67	24	28	33	477
35°	4854	110	15	24	31	2947
45°	6164	60	10	23	31	4510
55°	3147	10	8	22	31	2620
65°	61	0	7	18	27	192
75°	2	1	6	14	22	3
85°	1	1	4	6	9	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°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
2.5°	71.5	71.5	71.5	71.5	71.5	71.5	70.4	70.4	71.5	70.4	70.4
5°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	73.8	73.8	73.8	71.5
7.5°	76.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	73.8	73.8	70.4
10°	73.8	73.8	73.8	73.8	72.7	72.7	72.7	71.5	71.5	71.5	67.0
12.5°	73.8	73.8	73.8	73.8	72.7	72.7	71.5	71.5	70.4	69.2	61.3
15°	80.6	80.6	80.6	79.5	78.3	77.2	76.1	74.9	73.8	71.5	56.8
17.5°	118.1	114.7	113.5	109.0	103.3	97.6	93.1	88.5	84.0	80.6	54.5
20°	277.0	275.8	270.2	256.5	241.8	224.8	207.7	188.4	161.2	143.0	54.5
22.5°	480.2	473.4	463.1	452.9	426.8	396.2	364.4	328.1	292.9	255.4	57.9
25°	768.5	784.4	750.3	723.1	677.7	622.1	561.9	512.0	448.4	389.4	67.0
27.5°	1336.1	1346.3	1279.3	1190.8	1085.2	968.3	854.8	769.6	662.9	565.3	84.0
30°	2343.0	2353.2	2240.8	2052.4	1834.4	1642.6	1382.6	1154.5	944.5	782.1	98.8
31°	2924.2	2844.7	2714.2	2531.4	2255.6	1966.1	1653.9	1378.1	1112.5	899.1	103.3
32°	3429.3	3422.5	3270.4	2993.4	2716.5	2358.9	1971.8	1611.9	1286.1	1017.1	106.7
33°	4025.3	3979.9	3765.4	3504.3	3137.6	2777.8	2278.3	1867.4	1464.4	1148.8	109.0
34°	4503.2	4380.6	4292.1	3993.5	3606.4	3147.8	2613.2	2137.5	1686.9	1275.9	110.1
35°	4854.0	4827.9	4655.3	4377.2	3983.3	3514.5	2974.1	2417.9	1873.0	1423.5	110.1
36°	5225.2	5144.6	4976.6	4724.6	4340.9	3856.2	3250.0	2660.8	2089.8	1556.3	109.0
37°	5457.9	5410.2	5243.3	4983.4	4607.7	4144.5	3558.8	2917.4	2262.4	1689.1	106.7
38°	5697.4	5600.9	5436.3	5187.7	4818.8	4384.0	3782.4	3114.9	2421.3	1806.1	103.3
39°	5863.2	5763.3	5595.3	5347.8	4986.8	4555.4	3959.5	3282.9	2559.8	1893.5	98.8
40°	5988.0	5891.5	5721.3	5467.0	5110.5	4690.5	4107.0	3431.6	2675.6	1969.5	93.1
41°	6065.2	5975.5	5806.4	5553.2	5195.7	4767.7	4203.5	3528.1	2753.9	2020.6	87.4
42°	6129.9	6038.0	5865.4	5606.6	5247.9	4833.6	4262.6	3589.4	2807.3	2046.7	82.9
43°	6166.2	6074.3	5906.3	5641.8	5279.7	4864.2	4294.3	3617.8	2825.4	2043.3	74.9
44°	6186.7	6091.3	5922.2	5657.7	5293.3	4872.1	4296.6	3612.1	2813.0	2016.1	68.1
45°	6164.0	6069.8	5906.3	5641.8	5269.5	4847.2	4273.9	3581.5	2765.3	1962.7	60.2
46°	6016.4	5943.7	5793.9	5551.0	5194.5	4783.6	4216.0	3522.4	2691.5	1896.9	51.1
47°	5756.4	5698.6	5553.2	5372.8	5050.4	4666.7	4109.3	3410.0	2588.2	1798.1	40.9
48°	5485.1	5400.0	5264.9	5079.9	4807.4	4456.7	3933.4	3245.5	2431.5	1668.7	36.3
49°	5084.4	5034.5	4915.3	4708.7	4482.8	4174.0	3684.8	3034.3	2239.7	1527.9	31.8
50°	4716.6	4682.6	4515.7	4363.6	4124.1	3835.7	3347.6	2756.2	2001.3	1353.1	28.4
51°	4429.4	4388.6	4268.2	4078.7	3823.3	3488.4	3028.6	2395.2	1727.7	1145.4	22.7
52°	4129.7	4107.0	4000.3	3805.1	3554.2	3220.5	2718.7	2088.7	1462.1	968.3	18.2
53°	3884.6	3851.6	3721.1	3547.4	3276.1	2931.0	2382.7	1803.8	1238.5	813.9	15.9
54°	3527.0	3513.4	3429.3	3247.7	2953.7	2578.0	2078.5	1518.9	1033.0	690.2	13.6
55°	3146.7	3101.3	3016.1	2872.0	2601.8	2251.0	1726.6	1258.9	835.5	581.2	10.2
56°	2683.5	2681.3	2529.2	2408.8	2169.3	1797.0	1379.2	983.1	678.8	484.7	9.1
57°	2240.8	2169.3	2022.9	1903.7	1646.0	1363.3	1023.9	736.7	531.3	392.8	6.8
58°	1657.3	1619.9	1581.3	1406.5	1168.1	966.0	731.0	517.6	392.8	299.7	4.5
59°	1125.0	1123.8	1078.4	945.6	808.2	601.6	456.3	351.9	270.2	220.2	3.4
60°	849.1	828.7	737.9	650.5	508.6	380.3	270.2	207.7	168.0	141.9	2.3
62.5°	297.4	308.8	271.3	224.8	171.4	140.8	107.8	87.4	71.5	57.9	0.0
65°	61.3	67.0	57.9	54.5	43.1	37.5	32.9	28.4	23.8	20.4	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°	7.9	6.8	6.8	6.8	5.7	5.7	5.7	5.7	4.5	4.5	1.1
70°	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3	1.1
72.5°	3.4	3.4	3.4	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3
85°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	65.8	65.8	65.8	65.8	65.8	65.8
2.5°	69.2	67.0	63.6	62.4	61.3	61.3
5°	68.1	63.6	60.2	56.8	55.6	55.6
7.5°	64.7	59.0	54.5	52.2	51.1	49.9
10°	61.3	53.4	48.8	46.5	46.5	46.5
12.5°	54.5	47.7	43.1	42.0	43.1	43.1
15°	48.8	40.9	38.6	38.6	39.7	40.9
17.5°	42.0	36.3	34.1	35.2	36.3	37.5
20°	37.5	30.6	30.6	31.8	35.2	35.2
22.5°	32.9	27.2	27.2	30.6	32.9	34.1
25°	29.5	23.8	25.0	28.4	31.8	32.9
27.5°	25.0	20.4	22.7	27.2	30.6	31.8
30°	21.6	18.2	21.6	26.1	29.5	31.8
31°	20.4	17.0	21.6	25.0	29.5	31.8
32°	18.2	17.0	20.4	25.0	29.5	30.6
33°	17.0	15.9	20.4	25.0	29.5	30.6
34°	15.9	14.8	19.3	25.0	29.5	30.6
35°	13.6	14.8	19.3	23.8	28.4	30.6
36°	12.5	13.6	19.3	23.8	28.4	30.6
37°	11.4	13.6	18.2	23.8	28.4	30.6
38°	10.2	12.5	18.2	23.8	28.4	30.6
39°	9.1	12.5	17.0	23.8	28.4	30.6
40°	7.9	11.4	17.0	22.7	28.4	30.6
41°	7.9	11.4	17.0	22.7	28.4	30.6
42°	6.8	11.4	17.0	22.7	28.4	30.6
43°	5.7	10.2	17.0	22.7	28.4	30.6
44°	4.5	10.2	15.9	22.7	28.4	30.6
45°	4.5	10.2	15.9	22.7	28.4	30.6
46°	3.4	9.1	15.9	22.7	28.4	30.6
47°	2.3	9.1	15.9	21.6	28.4	30.6
48°	2.3	9.1	15.9	21.6	28.4	30.6
49°	2.3	9.1	14.8	21.6	28.4	30.6
50°	2.3	9.1	14.8	21.6	28.4	30.6
51°	1.1	7.9	14.8	21.6	28.4	30.6
52°	1.1	7.9	14.8	21.6	28.4	31.8
53°	1.1	7.9	14.8	21.6	28.4	30.6
54°	1.1	7.9	13.6	21.6	28.4	30.6
55°	1.1	7.9	13.6	21.6	28.4	30.6
56°	1.1	6.8	13.6	20.4	28.4	30.6
57°	2.3	6.8	13.6	20.4	28.4	29.5
58°	2.3	6.8	13.6	20.4	27.2	29.5
59°	2.3	6.8	13.6	20.4	27.2	29.5
60°	2.3	6.8	12.5	20.4	27.2	29.5
62.5°	2.3	6.8	12.5	19.3	26.1	28.4
65°	2.3	6.8	11.4	18.2	26.1	27.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.3	5.7	11.4	17.0	25.0	26.1
70°	3.4	5.7	10.2	17.0	23.8	25.0
72.5°	3.4	5.7	10.2	14.8	21.6	23.8
75°	3.4	5.7	9.1	13.6	20.4	21.6
77.5°	3.4	5.7	7.9	12.5	18.2	19.3
80°	4.5	5.7	6.8	10.2	15.9	17.0
82.5°	4.5	5.7	5.7	7.9	12.5	13.6
85°	3.4	4.5	4.5	5.7	7.9	9.1
87.5°	3.4	4.5	3.4	2.3	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)