

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: P1313539

Luminaire Tested: P3SQAS17R259730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313539
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: P3SQAS17R259730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

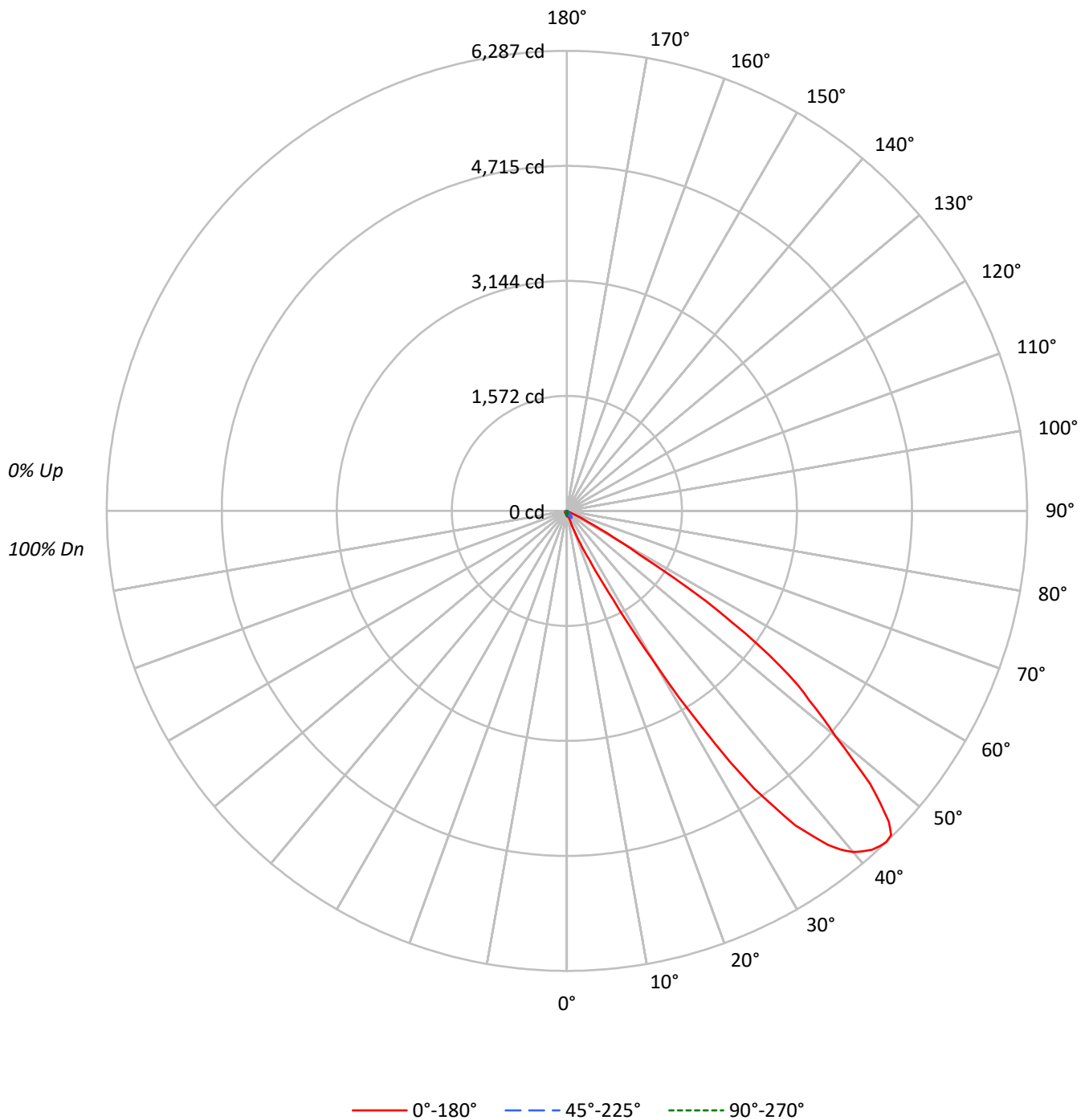
Lumens per Lamp: N/A
Luminaire Lumens: 1311.0 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	11522	11522	11522	11522	11522
5°	13156	12568	11168	9975	9768
10°	13116	11909	9478	8272	8272
15°	14603	10288	7399	6989	7399
20°	51592	10153	5700	5920	6561
25°	148411	12941	4599	5473	6366
30°	473519	19966	3679	5270	6423
35°	1037139	23526	3154	5088	6539
40°	1368146	21268	2585	5193	6992
45°	1525730	14881	2533	5626	7575
50°	1284300	7716	2465	5868	8333
55°	960205	3123	2432	6576	9338
60°	297222	792	2377	7164	10333
65°	25388	0	2812	7539	11288
70°	1762	604	2921	8711	12790
75°	1530	799	3859	9183	14573
80°	1190	1190	5752	10315	17158
85°	2371	2371	9090	11461	18180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1525730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.5
10°-20°	15.5	1.2
20°-30°	72.5	5.5
30°-40°	349.2	26.6
40°-50°	547.4	41.8
50°-60°	280.6	21.4
60°-70°	26.5	2.0
70°-80°	8.9	0.7
80°-90°	4.5	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°	94.0	7.2
0°-40°	443.2	33.8
0°-60°	1271.1	97.0
0°-90°	1311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	76	73	65	58	56	7
15°	82	58	42	39	42	35
25°	781	68	24	29	34	484
35°	4933	112	15	24	31	2994
45°	6264	61	10	23	31	4584
55°	3198	10	8	22	31	2662
65°	62	0	7	18	28	195
75°	2	1	6	14	22	3
85°	1	1	5	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°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2.5°	72.7	72.7	72.7	72.7	72.7	72.7	71.5	71.5	72.7	71.5	71.5
5°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	75.0	75.0	75.0	72.7
7.5°	77.3	76.1	76.1	76.1	76.1	76.1	76.1	76.1	75.0	75.0	71.5
10°	75.0	75.0	75.0	75.0	73.8	73.8	73.8	72.7	72.7	72.7	68.1
12.5°	75.0	75.0	75.0	75.0	73.8	73.8	72.7	72.7	71.5	70.4	62.3
15°	81.9	81.9	81.9	80.8	79.6	78.4	77.3	76.1	75.0	72.7	57.7
17.5°	120.0	116.5	115.4	110.8	105.0	99.2	94.6	90.0	85.4	81.9	55.4
20°	281.5	280.3	274.6	260.7	245.7	228.4	211.1	191.5	163.8	145.4	55.4
22.5°	488.0	481.1	470.7	460.3	433.8	402.6	370.3	333.4	297.6	259.6	58.8
25°	781.0	797.2	762.6	734.9	688.7	632.2	571.1	520.3	455.7	395.7	68.1
27.5°	1357.8	1368.2	1300.2	1210.2	1102.9	984.1	868.7	782.2	673.7	574.5	85.4
30°	2381.1	2391.5	2277.3	2085.8	1864.3	1669.3	1405.1	1173.3	959.8	794.9	100.4
31°	2971.8	2891.0	2758.4	2572.6	2292.3	1998.1	1680.9	1400.5	1130.6	913.7	105.0
32°	3485.2	3478.3	3323.7	3042.2	2760.7	2397.3	2003.9	1638.2	1307.1	1033.7	108.4
33°	4090.8	4044.7	3826.7	3561.3	3188.7	2823.0	2315.4	1897.8	1488.2	1167.5	110.8
34°	4576.5	4451.9	4361.9	4058.5	3665.1	3199.1	2655.7	2172.3	1714.3	1296.7	111.9
35°	4933.0	4906.5	4731.1	4448.5	4048.2	3571.7	3022.6	2457.3	1903.5	1446.7	111.9
36°	5310.2	5228.3	5057.6	4801.5	4411.6	3918.9	3302.9	2704.2	2123.9	1581.7	110.8
37°	5546.7	5498.3	5328.7	5064.5	4682.7	4212.0	3616.7	2964.9	2299.2	1716.6	108.4
38°	5790.2	5692.1	5524.8	5272.2	4897.2	4455.4	3844.0	3165.6	2460.7	1835.5	105.0
39°	5958.6	5857.1	5686.3	5434.8	5068.0	4629.6	4023.9	3336.4	2601.5	1924.3	100.4
40°	6085.5	5987.4	5814.4	5556.0	5193.7	4766.9	4173.9	3487.5	2719.2	2001.6	94.6
41°	6163.9	6072.8	5900.9	5643.7	5280.3	4845.3	4272.0	3585.5	2798.8	2053.5	88.8
42°	6229.7	6136.3	5960.9	5697.9	5333.3	4912.2	4332.0	3647.8	2853.0	2080.0	84.2
43°	6266.6	6173.2	6002.4	5733.6	5365.6	4943.4	4364.3	3676.7	2871.4	2076.6	76.1
44°	6287.4	6190.5	6018.6	5749.8	5379.5	4951.5	4366.6	3670.9	2858.7	2048.9	69.2
45°	6264.3	6168.6	6002.4	5733.6	5355.2	4926.1	4343.5	3639.8	2810.3	1994.7	61.1
46°	6114.3	6040.5	5888.2	5641.3	5279.1	4861.5	4284.7	3579.8	2735.3	1927.7	51.9
47°	5850.2	5791.3	5643.7	5460.2	5132.6	4742.7	4176.2	3465.6	2630.3	1827.4	41.5
48°	5574.4	5487.9	5350.6	5162.6	4885.7	4529.2	3997.4	3298.3	2471.1	1695.9	36.9
49°	5167.2	5116.4	4995.3	4785.3	4555.8	4242.0	3744.7	3083.7	2276.1	1552.8	32.3
50°	4793.4	4758.8	4589.2	4434.6	4191.2	3898.2	3402.1	2801.1	2033.9	1375.1	28.8
51°	4501.5	4460.0	4337.7	4145.1	3885.5	3545.2	3077.9	2434.2	1755.9	1164.0	23.1
52°	4197.0	4173.9	4065.5	3867.0	3612.1	3272.9	2763.0	2122.7	1485.9	984.1	18.5
53°	3947.8	3914.3	3781.7	3605.2	3329.4	2978.7	2421.5	1833.1	1258.6	827.2	16.2
54°	3584.4	3570.5	3485.2	3300.6	3001.8	2619.9	2112.3	1543.6	1049.8	701.4	13.8
55°	3197.9	3151.8	3065.2	2918.7	2644.2	2287.7	1754.7	1279.4	849.1	590.7	10.4
56°	2727.2	2724.9	2570.3	2448.0	2204.6	1826.2	1401.7	999.1	689.9	492.6	9.2
57°	2277.3	2204.6	2055.8	1934.7	1672.8	1385.5	1040.6	748.7	539.9	399.2	6.9
58°	1684.3	1646.3	1607.0	1429.4	1187.1	981.8	743.0	526.1	399.2	304.6	4.6
59°	1143.3	1142.1	1096.0	961.0	821.4	611.4	463.8	357.6	274.6	223.8	3.5
60°	862.9	842.2	749.9	661.0	516.8	386.5	274.6	211.1	170.7	144.2	2.3
62.5°	302.3	313.8	275.7	228.4	174.2	143.1	109.6	88.8	72.7	58.8	0.0
65°	62.3	68.1	58.8	55.4	43.8	38.1	33.5	28.8	24.2	20.8	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°	8.1	6.9	6.9	6.9	5.8	5.8	5.8	5.8	4.6	4.6	1.2
70°	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3	1.2
72.5°	3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3
85°	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°	66.9	66.9	66.9	66.9	66.9	66.9
2.5°	70.4	68.1	64.6	63.5	62.3	62.3
5°	69.2	64.6	61.1	57.7	56.5	56.5
7.5°	65.8	60.0	55.4	53.1	51.9	50.8
10°	62.3	54.2	49.6	47.3	47.3	47.3
12.5°	55.4	48.5	43.8	42.7	43.8	43.8
15°	49.6	41.5	39.2	39.2	40.4	41.5
17.5°	42.7	36.9	34.6	35.8	36.9	38.1
20°	38.1	31.1	31.1	32.3	35.8	35.8
22.5°	33.5	27.7	27.7	31.1	33.5	34.6
25°	30.0	24.2	25.4	28.8	32.3	33.5
27.5°	25.4	20.8	23.1	27.7	31.1	32.3
30°	21.9	18.5	21.9	26.5	30.0	32.3
31°	20.8	17.3	21.9	25.4	30.0	32.3
32°	18.5	17.3	20.8	25.4	30.0	31.1
33°	17.3	16.2	20.8	25.4	30.0	31.1
34°	16.2	15.0	19.6	25.4	30.0	31.1
35°	13.8	15.0	19.6	24.2	28.8	31.1
36°	12.7	13.8	19.6	24.2	28.8	31.1
37°	11.5	13.8	18.5	24.2	28.8	31.1
38°	10.4	12.7	18.5	24.2	28.8	31.1
39°	9.2	12.7	17.3	24.2	28.8	31.1
40°	8.1	11.5	17.3	23.1	28.8	31.1
41°	8.1	11.5	17.3	23.1	28.8	31.1
42°	6.9	11.5	17.3	23.1	28.8	31.1
43°	5.8	10.4	17.3	23.1	28.8	31.1
44°	4.6	10.4	16.2	23.1	28.8	31.1
45°	4.6	10.4	16.2	23.1	28.8	31.1
46°	3.5	9.2	16.2	23.1	28.8	31.1
47°	2.3	9.2	16.2	21.9	28.8	31.1
48°	2.3	9.2	16.2	21.9	28.8	31.1
49°	2.3	9.2	15.0	21.9	28.8	31.1
50°	2.3	9.2	15.0	21.9	28.8	31.1
51°	1.2	8.1	15.0	21.9	28.8	31.1
52°	1.2	8.1	15.0	21.9	28.8	32.3
53°	1.2	8.1	15.0	21.9	28.8	31.1
54°	1.2	8.1	13.8	21.9	28.8	31.1
55°	1.2	8.1	13.8	21.9	28.8	31.1
56°	1.2	6.9	13.8	20.8	28.8	31.1
57°	2.3	6.9	13.8	20.8	28.8	30.0
58°	2.3	6.9	13.8	20.8	27.7	30.0
59°	2.3	6.9	13.8	20.8	27.7	30.0
60°	2.3	6.9	12.7	20.8	27.7	30.0
62.5°	2.3	6.9	12.7	19.6	26.5	28.8
65°	2.3	6.9	11.5	18.5	26.5	27.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.3	5.8	11.5	17.3	25.4	26.5
70°	3.5	5.8	10.4	17.3	24.2	25.4
72.5°	3.5	5.8	10.4	15.0	21.9	24.2
75°	3.5	5.8	9.2	13.8	20.8	21.9
77.5°	3.5	5.8	8.1	12.7	18.5	19.6
80°	4.6	5.8	6.9	10.4	16.2	17.3
82.5°	4.6	5.8	5.8	8.1	12.7	13.8
85°	3.5	4.6	4.6	5.8	8.1	9.2
87.5°	3.5	4.6	3.5	2.3	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)