

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: P1307321

Luminaire Tested: P3SQAS24R259027D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307321
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: P3SQAS24R259027D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

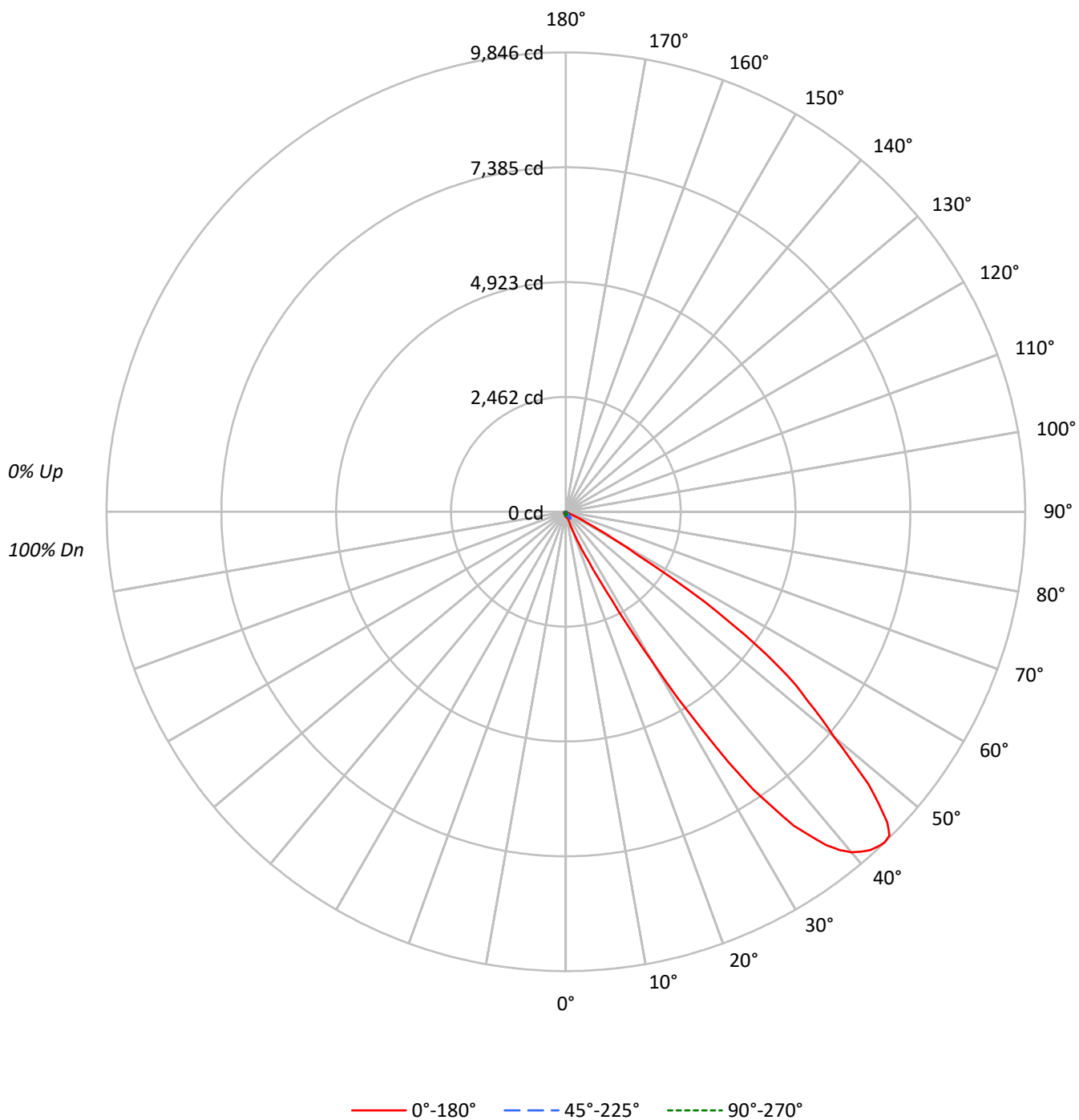
Lumens per Lamp: N/A
Luminaire Lumens: 2053.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	18049	18049	18049	18049	18049
5°	20607	19674	17496	15611	15300
10°	20531	18642	14847	12959	12959
15°	22876	16100	11589	10947	11589
20°	80788	15890	8944	9274	10263
25°	232422	20257	7202	8589	9957
30°	741530	31262	5747	8273	10063
35°	1624143	36835	4941	7968	10260
40°	2142496	33296	4069	8116	10971
45°	2389271	23309	3970	8793	11886
50°	2011196	12110	3885	9190	13075
55°	1503677	4894	3783	10299	14653
60°	465449	1240	3720	11194	16189
65°	39773	0	4401	11777	17686
70°	2719	906	4532	13646	19991
75°	2396	1198	5989	14440	22824
80°	1785	1785	8926	16166	26878
85°	3557	3557	14227	17784	28652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2389271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.5
10°-20°	24.2	1.2
20°-30°	113.6	5.5
30°-40°	546.9	26.6
40°-50°	857.2	41.8
50°-60°	439.4	21.4
60°-70°	41.4	2.0
70°-80°	13.9	0.7
80°-90°	7.0	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°	147.2	7.2
0°-40°	694.0	33.8
0°-60°	1990.6	97.0
0°-90°	2053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2053.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	119	114	101	90	88	11
15°	128	90	65	61	65	54
25°	1223	107	38	45	52	759
35°	7725	175	24	38	49	4689
45°	9810	96	16	36	49	7178
55°	5008	16	13	34	49	4169
65°	98	0	11	29	43	306
75°	4	2	9	22	34	4
85°	2	2	7	9	14	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°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8
2.5°	113.8	113.8	113.8	113.8	113.8	113.8	112.0	112.0	113.8	112.0	112.0
5°	119.2	119.2	119.2	119.2	119.2	119.2	119.2	117.4	117.4	117.4	113.8
7.5°	121.0	119.2	119.2	119.2	119.2	119.2	119.2	119.2	117.4	117.4	112.0
10°	117.4	117.4	117.4	117.4	115.6	115.6	115.6	113.8	113.8	113.8	106.6
12.5°	117.4	117.4	117.4	117.4	115.6	115.6	113.8	113.8	112.0	110.2	97.6
15°	128.3	128.3	128.3	126.5	124.7	122.8	121.0	119.2	117.4	113.8	90.3
17.5°	187.9	182.5	180.7	173.4	164.4	155.4	148.1	140.9	133.7	128.3	86.7
20°	440.8	439.0	430.0	408.3	384.8	357.7	330.6	299.9	256.5	227.6	86.7
22.5°	764.2	753.3	737.1	720.8	679.3	630.5	579.9	522.1	466.1	406.5	92.1
25°	1223.1	1248.4	1194.2	1150.8	1078.5	990.0	894.3	814.8	713.6	619.7	106.6
27.5°	2126.4	2142.6	2036.0	1895.1	1727.1	1541.0	1360.4	1224.9	1055.0	899.7	133.7
30°	3728.8	3745.1	3566.2	3266.3	2919.5	2614.1	2200.4	1837.3	1503.1	1244.7	157.2
31°	4653.8	4527.3	4319.6	4028.7	3589.7	3129.0	2632.2	2193.2	1770.5	1430.8	164.4
32°	5457.7	5446.9	5204.8	4764.0	4323.2	3754.1	3138.0	2565.4	2046.9	1618.7	169.8
33°	6406.2	6333.9	5992.5	5576.9	4993.4	4420.7	3625.8	2971.8	2330.5	1828.3	173.4
34°	7166.7	6971.6	6830.7	6355.6	5739.5	5009.7	4158.8	3401.8	2684.6	2030.6	175.2
35°	7725.0	7683.4	7408.8	6966.2	6339.3	5593.2	4733.3	3848.0	2980.9	2265.5	175.2
36°	8315.7	8187.5	7920.1	7519.0	6908.4	6137.0	5172.3	4234.7	3325.9	2476.8	173.4
37°	8686.1	8610.2	8344.6	7930.9	7333.0	6595.9	5663.7	4642.9	3600.5	2688.2	169.8
38°	9067.3	8913.7	8651.8	8256.1	7669.0	6977.1	6019.6	4957.3	3853.5	2874.3	164.4
39°	9331.0	9172.1	8904.7	8510.9	7936.4	7249.9	6301.4	5224.7	4073.9	3013.4	157.2
40°	9529.8	9376.2	9105.2	8700.5	8133.3	7464.8	6536.2	5461.3	4258.1	3134.4	148.1
41°	9652.6	9509.9	9240.7	8837.8	8268.8	7587.7	6689.8	5614.9	4382.8	3215.7	139.1
42°	9755.6	9609.3	9334.7	8922.8	8351.9	7692.5	6783.8	5712.4	4467.7	3257.3	131.9
43°	9813.4	9667.1	9399.7	8978.8	8402.5	7741.2	6834.3	5757.6	4496.6	3251.9	119.2
44°	9845.9	9694.2	9425.0	9004.1	8424.1	7753.9	6837.9	5748.6	4476.7	3208.5	108.4
45°	9809.8	9659.8	9399.7	8978.8	8386.2	7714.1	6801.8	5699.8	4400.9	3123.6	95.7
46°	9574.9	9459.3	9220.8	8834.2	8267.0	7613.0	6709.7	5605.9	4283.4	3018.8	81.3
47°	9161.2	9069.1	8837.8	8550.6	8037.5	7426.9	6539.9	5427.0	4119.0	2861.6	65.0
48°	8729.5	8594.0	8379.0	8084.5	7650.9	7092.7	6259.8	5165.0	3869.7	2655.7	57.8
49°	8091.7	8012.2	7822.5	7493.7	7134.2	6642.8	5864.2	4829.0	3564.4	2431.7	50.6
50°	7506.4	7452.2	7186.6	6944.5	6563.3	6104.5	5327.6	4386.4	3185.0	2153.5	45.2
51°	7049.3	6984.3	6792.8	6491.1	6084.6	5551.7	4820.0	3811.9	2749.6	1822.9	36.1
52°	6572.4	6536.2	6366.4	6055.7	5656.4	5125.3	4326.8	3324.1	2326.9	1541.0	28.9
53°	6182.2	6129.8	5922.0	5645.6	5213.8	4664.6	3792.0	2870.7	1971.0	1295.3	25.3
54°	5613.1	5591.4	5457.7	5168.7	4700.8	4102.8	3307.9	2417.2	1644.0	1098.4	21.7
55°	5007.9	4935.6	4800.1	4570.7	4140.7	3582.5	2747.8	2003.5	1329.7	925.0	16.3
56°	4270.8	4267.2	4025.1	3833.6	3452.4	2859.8	2195.0	1564.5	1080.3	771.4	14.5
57°	3566.2	3452.4	3219.3	3029.7	2619.6	2169.7	1629.5	1172.5	845.5	625.1	10.8
58°	2637.6	2578.0	2516.6	2238.4	1859.0	1537.4	1163.4	823.8	625.1	476.9	7.2
59°	1790.3	1788.5	1716.3	1504.9	1286.3	957.5	726.2	560.0	430.0	350.5	5.4
60°	1351.3	1318.8	1174.3	1035.2	809.4	605.2	430.0	330.6	267.4	225.8	3.6
62.5°	473.3	491.4	431.8	357.7	272.8	224.0	171.6	139.1	113.8	92.1	0.0
65°	97.6	106.6	92.1	86.7	68.7	59.6	52.4	45.2	37.9	32.5	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°	12.6	10.8	10.8	10.8	9.0	9.0	9.0	9.0	7.2	7.2	1.8
70°	5.4	5.4	5.4	5.4	5.4	5.4	3.6	3.6	3.6	3.6	1.8
72.5°	5.4	5.4	5.4	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
85°	1.8	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	104.8	104.8	104.8	104.8	104.8	104.8
2.5°	110.2	106.6	101.2	99.4	97.6	97.6
5°	108.4	101.2	95.7	90.3	88.5	88.5
7.5°	103.0	93.9	86.7	83.1	81.3	79.5
10°	97.6	84.9	77.7	74.1	74.1	74.1
12.5°	86.7	75.9	68.7	66.8	68.7	68.7
15°	77.7	65.0	61.4	61.4	63.2	65.0
17.5°	66.8	57.8	54.2	56.0	57.8	59.6
20°	59.6	48.8	48.8	50.6	56.0	56.0
22.5°	52.4	43.4	43.4	48.8	52.4	54.2
25°	47.0	37.9	39.7	45.2	50.6	52.4
27.5°	39.7	32.5	36.1	43.4	48.8	50.6
30°	34.3	28.9	34.3	41.6	47.0	50.6
31°	32.5	27.1	34.3	39.7	47.0	50.6
32°	28.9	27.1	32.5	39.7	47.0	48.8
33°	27.1	25.3	32.5	39.7	47.0	48.8
34°	25.3	23.5	30.7	39.7	47.0	48.8
35°	21.7	23.5	30.7	37.9	45.2	48.8
36°	19.9	21.7	30.7	37.9	45.2	48.8
37°	18.1	21.7	28.9	37.9	45.2	48.8
38°	16.3	19.9	28.9	37.9	45.2	48.8
39°	14.5	19.9	27.1	37.9	45.2	48.8
40°	12.6	18.1	27.1	36.1	45.2	48.8
41°	12.6	18.1	27.1	36.1	45.2	48.8
42°	10.8	18.1	27.1	36.1	45.2	48.8
43°	9.0	16.3	27.1	36.1	45.2	48.8
44°	7.2	16.3	25.3	36.1	45.2	48.8
45°	7.2	16.3	25.3	36.1	45.2	48.8
46°	5.4	14.5	25.3	36.1	45.2	48.8
47°	3.6	14.5	25.3	34.3	45.2	48.8
48°	3.6	14.5	25.3	34.3	45.2	48.8
49°	3.6	14.5	23.5	34.3	45.2	48.8
50°	3.6	14.5	23.5	34.3	45.2	48.8
51°	1.8	12.6	23.5	34.3	45.2	48.8
52°	1.8	12.6	23.5	34.3	45.2	50.6
53°	1.8	12.6	23.5	34.3	45.2	48.8
54°	1.8	12.6	21.7	34.3	45.2	48.8
55°	1.8	12.6	21.7	34.3	45.2	48.8
56°	1.8	10.8	21.7	32.5	45.2	48.8
57°	3.6	10.8	21.7	32.5	45.2	47.0
58°	3.6	10.8	21.7	32.5	43.4	47.0
59°	3.6	10.8	21.7	32.5	43.4	47.0
60°	3.6	10.8	19.9	32.5	43.4	47.0
62.5°	3.6	10.8	19.9	30.7	41.6	45.2
65°	3.6	10.8	18.1	28.9	41.6	43.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.6	9.0	18.1	27.1	39.7	41.6
70°	5.4	9.0	16.3	27.1	37.9	39.7
72.5°	5.4	9.0	16.3	23.5	34.3	37.9
75°	5.4	9.0	14.5	21.7	32.5	34.3
77.5°	5.4	9.0	12.6	19.9	28.9	30.7
80°	7.2	9.0	10.8	16.3	25.3	27.1
82.5°	7.2	9.0	9.0	12.6	19.9	21.7
85°	5.4	7.2	7.2	9.0	12.6	14.5
87.5°	5.4	7.2	5.4	3.6	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)