

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: P1309556

Luminaire Tested: P3SQAS24R259035D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309556
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: P3SQAS24R259035D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

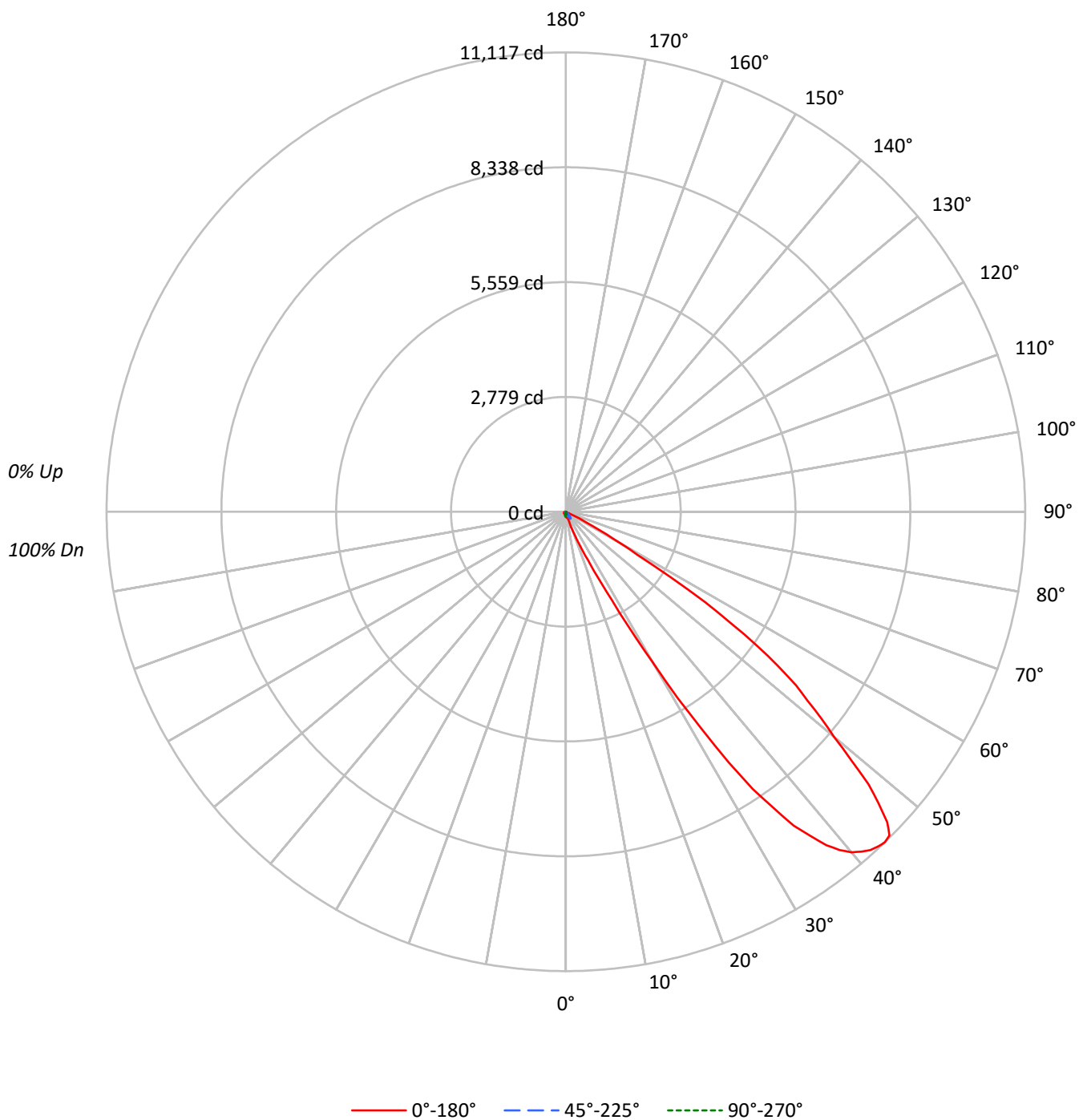
Lumens per Lamp: N/A
Luminaire Lumens: 2318.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	20374	20374	20374	20374	20374
5°	23270	22215	19743	17634	17271
10°	23189	21038	16771	14620	14620
15°	25818	18186	13087	12374	13087
20°	91216	17943	10098	10465	11583
25°	262408	22860	8133	9691	11250
30°	837244	35299	6483	9327	11355
35°	1833778	41607	5571	8998	11585
40°	2419048	37613	4586	9173	12388
45°	2697666	26329	4481	9937	13420
50°	2270794	13664	4367	10396	14763
55°	1697766	5525	4294	11650	16544
60°	525555	1412	4202	12641	18256
65°	44867	0	4972	13285	19968
70°	3072	1007	5136	15408	22609
75°	2728	1331	6787	16303	25818
80°	1984	1984	10116	18249	30349
85°	3952	3952	16203	20156	32209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2697666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.5
10°-20°	27.3	1.2
20°-30°	128.2	5.5
30°-40°	617.4	26.6
40°-50°	967.8	41.8
50°-60°	496.1	21.4
60°-70°	46.8	2.0
70°-80°	15.7	0.7
80°-90°	7.9	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°	166.2	7.2
0°-40°	783.6	33.8
0°-60°	2247.6	97.0
0°-90°	2318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2318.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	135	128	114	102	100	13
15°	145	102	73	69	73	61
25°	1381	120	43	51	59	857
35°	8722	198	26	43	55	5295
45°	11076	108	18	41	55	8105
55°	5654	18	14	39	55	4707
65°	110	0	12	33	49	345
75°	4	2	10	24	39	5
85°	2	2	8	10	16	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°	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3
2.5°	128.5	128.5	128.5	128.5	128.5	128.5	126.5	126.5	128.5	126.5	126.5
5°	134.6	134.6	134.6	134.6	134.6	134.6	134.6	132.6	132.6	132.6	128.5
7.5°	136.7	134.6	134.6	134.6	134.6	134.6	134.6	134.6	132.6	132.6	126.5
10°	132.6	132.6	132.6	132.6	130.5	130.5	130.5	128.5	128.5	128.5	120.3
12.5°	132.6	132.6	132.6	132.6	130.5	130.5	128.5	128.5	126.5	124.4	110.1
15°	144.8	144.8	144.8	142.8	140.7	138.7	136.7	134.6	132.6	128.5	102.0
17.5°	212.1	206.0	204.0	195.8	185.6	175.4	167.3	159.1	150.9	144.8	97.9
20°	497.7	495.7	485.5	461.0	434.5	403.9	373.3	338.6	289.6	257.0	97.9
22.5°	862.8	850.6	832.2	813.9	767.0	711.9	654.8	589.5	526.3	459.0	104.0
25°	1380.9	1409.5	1348.3	1299.3	1217.8	1117.8	1009.7	919.9	805.7	699.6	120.3
27.5°	2400.8	2419.2	2298.8	2139.7	1950.0	1739.9	1536.0	1383.0	1191.2	1015.8	150.9
30°	4210.1	4228.5	4026.5	3687.9	3296.3	2951.6	2484.5	2074.5	1697.1	1405.4	177.5
31°	5254.5	5111.7	4877.1	4548.7	4053.1	3532.9	2972.0	2476.3	1999.0	1615.5	185.6
32°	6162.2	6150.0	5876.6	5378.9	4881.2	4238.7	3543.1	2896.5	2311.1	1827.6	191.7
33°	7233.1	7151.5	6766.0	6296.8	5638.0	4991.4	4093.8	3355.4	2631.3	2064.3	195.8
34°	8091.8	7871.5	7712.4	7176.0	6480.4	5656.3	4695.6	3840.9	3031.1	2292.7	197.9
35°	8722.1	8675.2	8365.2	7865.4	7157.6	6315.2	5344.2	4344.7	3365.6	2557.9	197.9
36°	9389.1	9244.3	8942.4	8489.6	7800.1	6929.2	5839.9	4781.3	3755.2	2796.5	195.8
37°	9807.3	9721.6	9421.8	8954.7	8279.5	7447.3	6394.7	5242.2	4065.3	3035.2	191.7
38°	10237.7	10064.3	9768.5	9321.8	8658.9	7877.7	6796.6	5597.2	4350.9	3245.3	185.6
39°	10535.5	10356.0	10054.1	9609.4	8960.8	8185.7	7114.8	5899.1	4599.7	3402.4	177.5
40°	10759.9	10586.5	10280.5	9823.6	9183.1	8428.4	7379.9	6166.3	4807.8	3539.0	167.3
41°	10898.6	10737.4	10433.5	9978.6	9336.1	8567.1	7553.3	6339.7	4948.5	3630.8	157.1
42°	11014.8	10849.6	10539.6	10074.5	9429.9	8685.4	7659.4	6449.8	5044.4	3677.7	148.9
43°	11080.1	10914.9	10613.0	10137.7	9487.0	8740.5	7716.5	6500.8	5077.0	3671.6	134.6
44°	11116.8	10945.5	10641.6	10166.3	9511.5	8754.8	7720.6	6490.6	5054.6	3622.7	122.4
45°	11076.0	10906.7	10613.0	10137.7	9468.7	8709.9	7679.8	6435.5	4968.9	3526.8	108.1
46°	10810.9	10680.3	10411.1	9974.6	9334.1	8595.7	7575.8	6329.5	4836.3	3408.5	91.8
47°	10343.8	10239.7	9978.6	9654.3	9075.0	8385.6	7384.0	6127.5	4650.7	3231.0	73.4
48°	9856.2	9703.3	9460.5	9128.0	8638.5	8008.2	7067.9	5831.7	4369.2	2998.5	65.3
49°	9136.2	9046.4	8832.3	8461.0	8055.1	7500.3	6621.1	5452.3	4024.5	2745.6	57.1
50°	8475.3	8414.1	8114.3	7840.9	7410.5	6892.4	6015.3	4952.6	3596.1	2431.4	51.0
51°	7959.2	7885.8	7669.6	7328.9	6870.0	6268.3	5442.1	4303.9	3104.6	2058.1	40.8
52°	7420.7	7379.9	7188.2	6837.4	6386.6	5786.9	4885.3	3753.2	2627.2	1739.9	32.6
53°	6980.1	6921.0	6686.4	6374.3	5886.8	5266.7	4281.5	3241.2	2225.4	1462.5	28.6
54°	6337.6	6313.1	6162.2	5835.8	5307.5	4632.4	3734.8	2729.2	1856.2	1240.2	24.5
55°	5654.3	5572.7	5419.7	5160.7	4675.2	4044.9	3102.5	2262.1	1501.3	1044.4	18.4
56°	4822.1	4818.0	4544.6	4328.4	3898.0	3229.0	2478.3	1766.5	1219.8	871.0	16.3
57°	4026.5	3898.0	3634.9	3420.7	2957.7	2449.8	1839.9	1323.8	954.6	705.8	12.2
58°	2978.1	2910.8	2841.4	2527.3	2098.9	1735.9	1313.6	930.1	705.8	538.5	8.2
59°	2021.4	2019.4	1937.8	1699.1	1452.3	1081.1	820.0	632.3	485.5	395.7	6.1
60°	1525.8	1489.0	1325.9	1168.8	913.8	683.3	485.5	373.3	301.9	255.0	4.1
62.5°	534.4	554.8	487.5	403.9	308.0	252.9	193.8	157.1	128.5	104.0	0.0
65°	110.1	120.3	104.0	97.9	77.5	67.3	59.2	51.0	42.8	36.7	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°	14.3	12.2	12.2	12.2	10.2	10.2	10.2	10.2	8.2	8.2	2.0
70°	6.1	6.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	2.0
72.5°	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1
85°	2.0	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	118.3	118.3	118.3	118.3	118.3	118.3
2.5°	124.4	120.3	114.2	112.2	110.1	110.1
5°	122.4	114.2	108.1	102.0	99.9	99.9
7.5°	116.3	106.1	97.9	93.8	91.8	89.8
10°	110.1	95.9	87.7	83.6	83.6	83.6
12.5°	97.9	85.7	77.5	75.5	77.5	77.5
15°	87.7	73.4	69.4	69.4	71.4	73.4
17.5°	75.5	65.3	61.2	63.2	65.3	67.3
20°	67.3	55.1	55.1	57.1	63.2	63.2
22.5°	59.2	49.0	49.0	55.1	59.2	61.2
25°	53.0	42.8	44.9	51.0	57.1	59.2
27.5°	44.9	36.7	40.8	49.0	55.1	57.1
30°	38.8	32.6	38.8	46.9	53.0	57.1
31°	36.7	30.6	38.8	44.9	53.0	57.1
32°	32.6	30.6	36.7	44.9	53.0	55.1
33°	30.6	28.6	36.7	44.9	53.0	55.1
34°	28.6	26.5	34.7	44.9	53.0	55.1
35°	24.5	26.5	34.7	42.8	51.0	55.1
36°	22.4	24.5	34.7	42.8	51.0	55.1
37°	20.4	24.5	32.6	42.8	51.0	55.1
38°	18.4	22.4	32.6	42.8	51.0	55.1
39°	16.3	22.4	30.6	42.8	51.0	55.1
40°	14.3	20.4	30.6	40.8	51.0	55.1
41°	14.3	20.4	30.6	40.8	51.0	55.1
42°	12.2	20.4	30.6	40.8	51.0	55.1
43°	10.2	18.4	30.6	40.8	51.0	55.1
44°	8.2	18.4	28.6	40.8	51.0	55.1
45°	8.2	18.4	28.6	40.8	51.0	55.1
46°	6.1	16.3	28.6	40.8	51.0	55.1
47°	4.1	16.3	28.6	38.8	51.0	55.1
48°	4.1	16.3	28.6	38.8	51.0	55.1
49°	4.1	16.3	26.5	38.8	51.0	55.1
50°	4.1	16.3	26.5	38.8	51.0	55.1
51°	2.0	14.3	26.5	38.8	51.0	55.1
52°	2.0	14.3	26.5	38.8	51.0	57.1
53°	2.0	14.3	26.5	38.8	51.0	55.1
54°	2.0	14.3	24.5	38.8	51.0	55.1
55°	2.0	14.3	24.5	38.8	51.0	55.1
56°	2.0	12.2	24.5	36.7	51.0	55.1
57°	4.1	12.2	24.5	36.7	51.0	53.0
58°	4.1	12.2	24.5	36.7	49.0	53.0
59°	4.1	12.2	24.5	36.7	49.0	53.0
60°	4.1	12.2	22.4	36.7	49.0	53.0
62.5°	4.1	12.2	22.4	34.7	46.9	51.0
65°	4.1	12.2	20.4	32.6	46.9	49.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	4.1	10.2	20.4	30.6	44.9	46.9
70°	6.1	10.2	18.4	30.6	42.8	44.9
72.5°	6.1	10.2	18.4	26.5	38.8	42.8
75°	6.1	10.2	16.3	24.5	36.7	38.8
77.5°	6.1	10.2	14.3	22.4	32.6	34.7
80°	8.2	10.2	12.2	18.4	28.6	30.6
82.5°	8.2	10.2	10.2	14.3	22.4	24.5
85°	6.1	8.2	8.2	10.2	14.3	16.3
87.5°	6.1	8.2	6.1	4.1	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)