

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: P1310674

Luminaire Tested: P3SQAS24R259040D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310674
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: P3SQAS24R259040D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

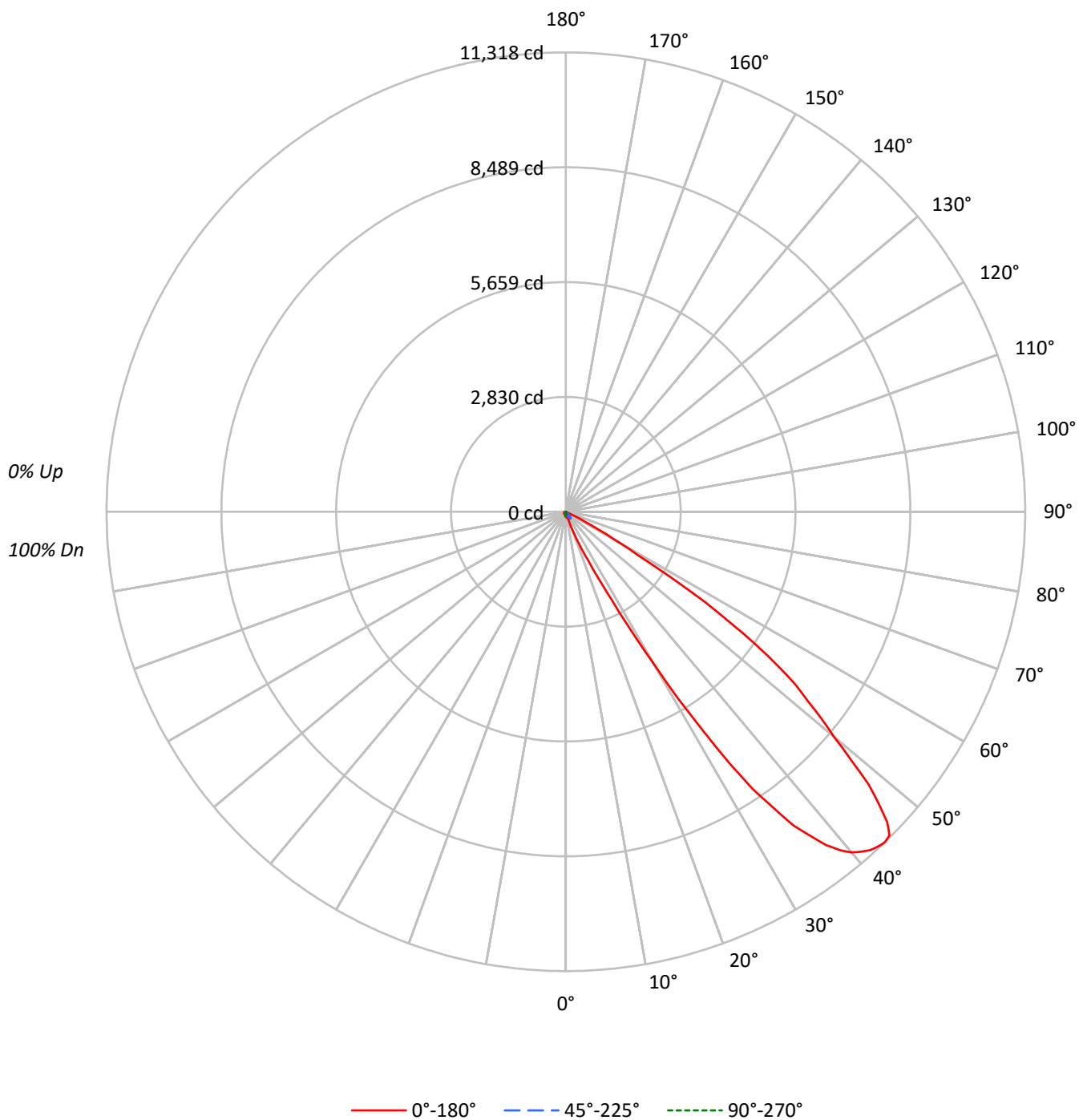
Lumens per Lamp: N/A
Luminaire Lumens: 2360.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310674

CATALOG NUMBER: P3SQAS24R259040D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310674

CATALOG NUMBER: P3SQAS24R259040D010 E3SQCA451MMS

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°	20753	20753	20753	20753	20753
5°	23702	22613	20106	17945	17599
10°	23609	21423	17068	14882	14882
15°	26281	18507	13337	12588	13337
20°	92866	18273	10282	10648	11803
25°	267177	23278	8285	9862	11440
30°	852417	35935	6602	9506	11554
35°	1867018	42343	5677	9167	11795
40°	2462866	38287	4676	9330	12612
45°	2746548	26816	4555	10108	13664
50°	2311949	13906	4448	10583	15031
55°	1728513	5615	4354	11860	16845
60°	535061	1447	4306	12882	18600
65°	45682	0	5094	13529	20294
70°	3122	1057	5237	15711	23012
75°	2795	1397	6920	16569	26284
80°	2083	2083	10315	18546	30944
85°	4150	4150	16401	20551	32802

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2746548 cd/sqm

TEST NUMBER: P1310674

CATALOG NUMBER: P3SQAS24R259040D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.5
10°-20°	27.8	1.2
20°-30°	130.6	5.5
30°-40°	628.6	26.6
40°-50°	985.4	41.8
50°-60°	505.1	21.4
60°-70°	47.7	2.0
70°-80°	16.0	0.7
80°-90°	8.0	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°	169.2	7.2
0°-40°	797.8	33.8
0°-60°	2288.3	97.0
0°-90°	2360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	120	120	120	120	120	
5°	137	131	116	104	102	13
15°	147	104	75	71	75	62
25°	1406	122	44	52	60	872
35°	8880	201	27	44	56	5391
45°	11277	110	19	42	56	8252
55°	5757	19	14	40	56	4793
65°	112	0	12	33	50	351
75°	4	2	10	25	40	5
85°	2	2	8	10	17	1
90°	0	0	0	0	0	

TEST NUMBER: P1310674

CATALOG NUMBER: P3SQAS24R259040D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5
2.5°	130.8	130.8	130.8	130.8	130.8	130.8	128.8	128.8	130.8	128.8	128.8
5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	135.0	135.0	135.0	130.8
7.5°	139.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	135.0	135.0	128.8
10°	135.0	135.0	135.0	135.0	132.9	132.9	132.9	130.8	130.8	130.8	122.5
12.5°	135.0	135.0	135.0	135.0	132.9	132.9	130.8	130.8	128.8	126.7	112.1
15°	147.4	147.4	147.4	145.4	143.3	141.2	139.1	137.1	135.0	130.8	103.8
17.5°	216.0	209.8	207.7	199.4	189.0	178.6	170.3	162.0	153.7	147.4	99.7
20°	506.7	504.6	494.3	469.3	442.3	411.2	380.0	344.7	294.9	261.7	99.7
22.5°	878.5	866.0	847.3	828.6	780.9	724.8	666.6	600.2	535.8	467.3	105.9
25°	1406.0	1435.0	1372.7	1322.9	1239.8	1138.1	1028.0	936.6	820.3	712.3	122.5
27.5°	2444.3	2463.0	2340.5	2178.5	1985.4	1771.5	1563.8	1408.0	1212.8	1034.2	153.7
30°	4286.4	4305.1	4099.5	3754.8	3356.0	3005.0	2529.5	2112.0	1727.9	1430.9	180.7
31°	5349.7	5204.3	4965.5	4631.1	4126.5	3596.9	3025.8	2521.2	2035.2	1644.8	189.0
32°	6273.8	6261.4	5983.1	5476.4	4969.6	4315.5	3607.3	2949.0	2353.0	1860.8	195.2
33°	7364.1	7281.1	6888.6	6410.9	5740.1	5081.8	4168.0	3416.2	2679.0	2101.7	199.4
34°	8238.4	8014.2	7852.2	7306.0	6597.8	5758.8	4780.7	3910.5	3086.0	2334.3	201.4
35°	8880.2	8832.4	8516.7	8007.9	7287.3	6429.6	5441.1	4423.5	3426.6	2604.2	201.4
36°	9559.3	9411.8	9104.4	8643.4	7941.5	7054.7	5945.7	4867.9	3823.3	2847.2	199.4
37°	9985.0	9897.8	9592.5	9116.9	8429.5	7582.2	6510.6	5337.2	4139.0	3090.2	195.2
38°	10423.2	10246.7	9945.5	9490.7	8815.8	8020.4	6919.7	5698.6	4429.7	3304.1	189.0
39°	10726.4	10543.6	10236.3	9783.5	9123.1	8334.0	7243.7	6005.9	4683.1	3464.0	180.7
40°	10954.8	10778.3	10466.8	10001.6	9349.5	8581.1	7513.7	6278.0	4894.9	3603.2	170.3
41°	11096.0	10932.0	10622.5	10159.4	9505.3	8722.3	7690.2	6454.5	5038.2	3696.6	159.9
42°	11214.4	11046.2	10730.5	10257.0	9600.8	8842.8	7798.2	6566.7	5135.8	3744.4	151.6
43°	11280.9	11112.7	10805.3	10321.4	9658.9	8898.9	7856.3	6618.6	5169.0	3738.1	137.1
44°	11318.3	11143.8	10834.4	10350.5	9683.9	8913.4	7860.5	6608.2	5146.2	3688.3	124.6
45°	11276.7	11104.4	10805.3	10321.4	9640.2	8867.7	7818.9	6552.1	5058.9	3590.7	110.1
46°	11006.7	10873.8	10599.7	10155.3	9503.2	8751.4	7713.0	6444.1	4924.0	3470.2	93.5
47°	10531.2	10425.3	10159.4	9829.2	9239.4	8537.5	7517.8	6238.5	4735.0	3289.6	74.8
48°	10034.8	9879.1	9631.9	9293.4	8795.0	8153.3	7195.9	5937.4	4448.4	3052.8	66.5
49°	9301.7	9210.4	8992.3	8614.3	8201.1	7636.2	6741.1	5551.1	4097.4	2795.3	58.1
50°	8628.9	8566.6	8261.3	7983.0	7544.8	7017.3	6124.3	5042.3	3661.3	2475.5	51.9
51°	8103.5	8028.7	7808.6	7461.7	6994.5	6381.8	5540.8	4381.9	3160.8	2095.4	41.5
52°	7555.2	7513.7	7318.4	6961.2	6502.3	5891.7	4973.8	3821.2	2674.8	1771.5	33.2
53°	7106.6	7046.4	6807.6	6489.8	5993.5	5362.2	4359.1	3299.9	2265.7	1489.0	29.1
54°	6452.4	6427.5	6273.8	5941.6	5403.7	4716.3	3802.5	2778.7	1889.8	1262.7	24.9
55°	5756.7	5673.7	5517.9	5254.2	4759.9	4118.2	3158.7	2303.1	1528.5	1063.3	18.7
56°	4909.4	4905.3	4627.0	4406.9	3968.7	3287.5	2523.2	1798.5	1241.9	886.8	16.6
57°	4099.5	3968.7	3700.8	3482.7	3011.3	2494.2	1873.2	1347.8	971.9	718.6	12.5
58°	3032.0	2963.5	2892.9	2573.1	2137.0	1767.3	1337.4	947.0	718.6	548.3	8.3
59°	2058.1	2056.0	1972.9	1729.9	1478.6	1100.7	834.9	643.8	494.3	402.9	6.2
60°	1553.4	1516.0	1349.9	1190.0	930.4	695.7	494.3	380.0	307.4	259.6	4.2
62.5°	544.1	564.9	496.3	411.2	313.6	257.5	197.3	159.9	130.8	105.9	0.0
65°	112.1	122.5	105.9	99.7	78.9	68.5	60.2	51.9	43.6	37.4	0.0



TEST NUMBER: P1310674

CATALOG NUMBER: P3SQAS24R259040D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	14.5	12.5	12.5	12.5	10.4	10.4	10.4	10.4	8.3	8.3	2.1
70°	6.2	6.2	6.2	6.2	6.2	6.2	4.2	4.2	4.2	4.2	2.1
72.5°	6.2	6.2	6.2	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2
85°	2.1	2.1	2.1	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1310674

CATALOG NUMBER: P3SQAS24R259040D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	120.5	120.5	120.5	120.5	120.5	120.5
2.5°	126.7	122.5	116.3	114.2	112.1	112.1
5°	124.6	116.3	110.1	103.8	101.8	101.8
7.5°	118.4	108.0	99.7	95.5	93.5	91.4
10°	112.1	97.6	89.3	85.1	85.1	85.1
12.5°	99.7	87.2	78.9	76.8	78.9	78.9
15°	89.3	74.8	70.6	70.6	72.7	74.8
17.5°	76.8	66.5	62.3	64.4	66.5	68.5
20°	68.5	56.1	56.1	58.1	64.4	64.4
22.5°	60.2	49.8	49.8	56.1	60.2	62.3
25°	54.0	43.6	45.7	51.9	58.1	60.2
27.5°	45.7	37.4	41.5	49.8	56.1	58.1
30°	39.5	33.2	39.5	47.8	54.0	58.1
31°	37.4	31.2	39.5	45.7	54.0	58.1
32°	33.2	31.2	37.4	45.7	54.0	56.1
33°	31.2	29.1	37.4	45.7	54.0	56.1
34°	29.1	27.0	35.3	45.7	54.0	56.1
35°	24.9	27.0	35.3	43.6	51.9	56.1
36°	22.8	24.9	35.3	43.6	51.9	56.1
37°	20.8	24.9	33.2	43.6	51.9	56.1
38°	18.7	22.8	33.2	43.6	51.9	56.1
39°	16.6	22.8	31.2	43.6	51.9	56.1
40°	14.5	20.8	31.2	41.5	51.9	56.1
41°	14.5	20.8	31.2	41.5	51.9	56.1
42°	12.5	20.8	31.2	41.5	51.9	56.1
43°	10.4	18.7	31.2	41.5	51.9	56.1
44°	8.3	18.7	29.1	41.5	51.9	56.1
45°	8.3	18.7	29.1	41.5	51.9	56.1
46°	6.2	16.6	29.1	41.5	51.9	56.1
47°	4.2	16.6	29.1	39.5	51.9	56.1
48°	4.2	16.6	29.1	39.5	51.9	56.1
49°	4.2	16.6	27.0	39.5	51.9	56.1
50°	4.2	16.6	27.0	39.5	51.9	56.1
51°	2.1	14.5	27.0	39.5	51.9	56.1
52°	2.1	14.5	27.0	39.5	51.9	58.1
53°	2.1	14.5	27.0	39.5	51.9	56.1
54°	2.1	14.5	24.9	39.5	51.9	56.1
55°	2.1	14.5	24.9	39.5	51.9	56.1
56°	2.1	12.5	24.9	37.4	51.9	56.1
57°	4.2	12.5	24.9	37.4	51.9	54.0
58°	4.2	12.5	24.9	37.4	49.8	54.0
59°	4.2	12.5	24.9	37.4	49.8	54.0
60°	4.2	12.5	22.8	37.4	49.8	54.0
62.5°	4.2	12.5	22.8	35.3	47.8	51.9
65°	4.2	12.5	20.8	33.2	47.8	49.8



TEST NUMBER: P1310674

CATALOG NUMBER: P3SQAS24R259040D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	4.2	10.4	20.8	31.2	45.7	47.8
70°	6.2	10.4	18.7	31.2	43.6	45.7
72.5°	6.2	10.4	18.7	27.0	39.5	43.6
75°	6.2	10.4	16.6	24.9	37.4	39.5
77.5°	6.2	10.4	14.5	22.8	33.2	35.3
80°	8.3	10.4	12.5	18.7	29.1	31.2
82.5°	8.3	10.4	10.4	14.5	22.8	24.9
85°	6.2	8.3	8.3	10.4	14.5	16.6
87.5°	6.2	8.3	6.2	4.2	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)