

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: P1312566

Luminaire Tested: P3SQAS17R259727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312566
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: P3SQAS17R259727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

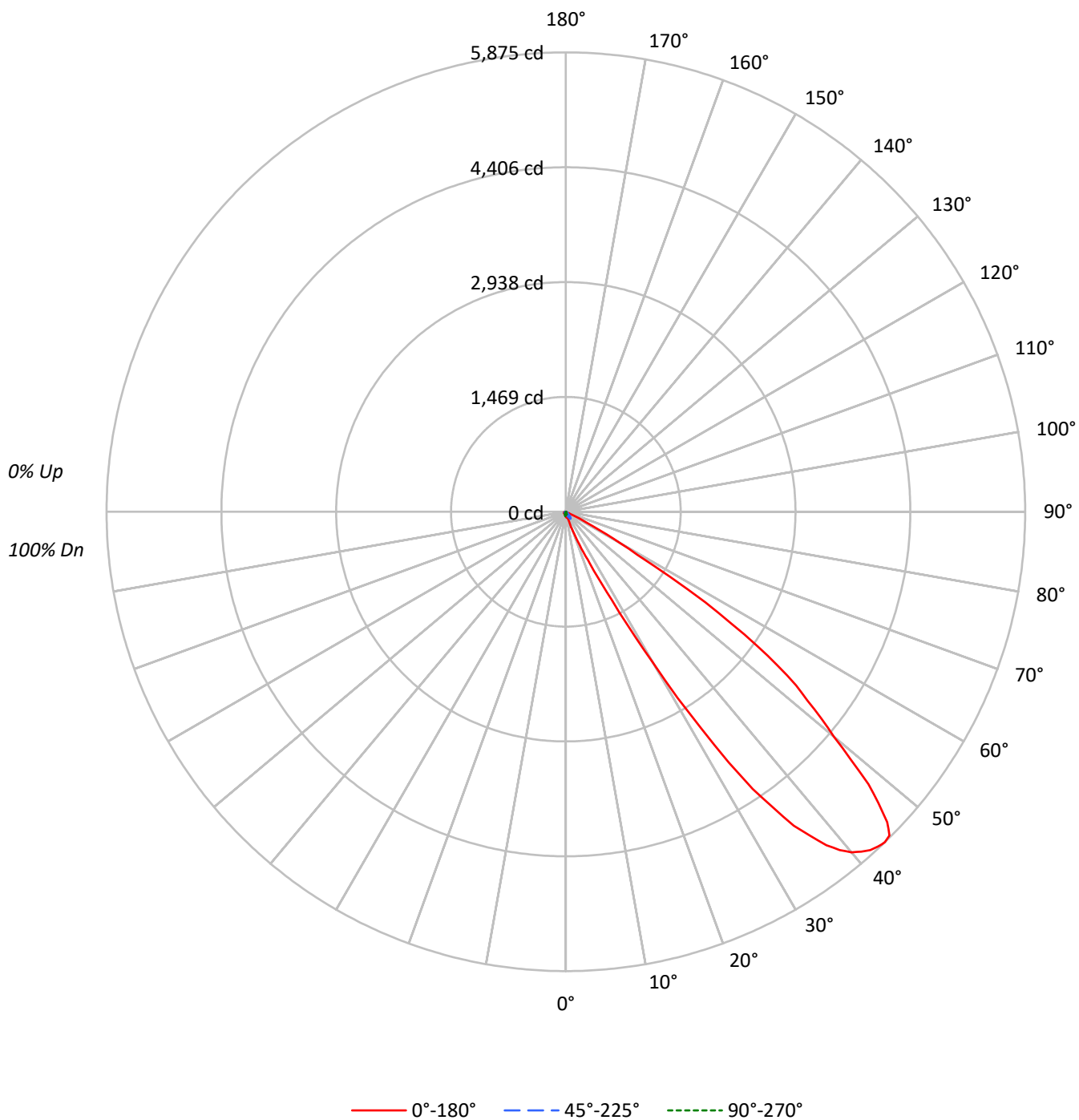
Lumens per Lamp: N/A
Luminaire Lumens: 1225.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1312566

CATALOG NUMBER: P3SQAS17R259727DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312566

CATALOG NUMBER: P3SQAS17R259727DE010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10764	10764	10764	10764	10764
5°	12292	11739	10442	9318	9128
10°	12259	11122	8866	7730	7730
15°	13640	9610	6918	6544	6918
20°	48201	9475	5333	5535	6121
25°	138681	12086	4295	5112	5948
30°	442456	18654	3420	4932	6006
35°	969103	21992	2943	4752	6118
40°	1278398	19874	2428	4856	6542
45°	1425652	13907	2363	5261	7088
50°	1200062	7207	2304	5493	7797
55°	897210	2913	2252	6155	8738
60°	277726	758	2239	6682	9644
65°	23717	0	2649	7009	10555
70°	1611	554	2719	8157	11934
75°	1464	732	3593	8584	13641
80°	1091	1091	5356	9620	16067
85°	2174	2174	8497	10671	16994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1425652 cd/sqm

TEST NUMBER: P1312566

CATALOG NUMBER: P3SQAS17R259727DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.5
10°-20°	14.4	1.2
20°-30°	67.8	5.5
30°-40°	326.3	26.6
40°-50°	511.5	41.8
50°-60°	262.2	21.4
60°-70°	24.7	2.0
70°-80°	8.3	0.7
80°-90°	4.2	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°	87.8	7.2
0°-40°	414.1	33.8
0°-60°	1187.8	97.0
0°-90°	1225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	71	68	60	54	53	7
15°	76	54	39	37	39	32
25°	730	64	23	27	31	453
35°	4609	105	14	23	29	2798
45°	5853	57	10	22	29	4283
55°	2988	10	8	20	29	2488
65°	58	0	6	17	26	182
75°	2	1	5	13	20	3
85°	1	1	4	5	9	1
90°	0	0	0	0	0	

TEST NUMBER: P1312566

CATALOG NUMBER: P3SQAS17R259727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
2.5°	67.9	67.9	67.9	67.9	67.9	67.9	66.8	66.8	67.9	66.8	66.8
5°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	70.1	70.1	70.1	67.9
7.5°	72.2	71.1	71.1	71.1	71.1	71.1	71.1	71.1	70.1	70.1	66.8
10°	70.1	70.1	70.1	70.1	69.0	69.0	69.0	67.9	67.9	67.9	63.6
12.5°	70.1	70.1	70.1	70.1	69.0	69.0	67.9	67.9	66.8	65.8	58.2
15°	76.5	76.5	76.5	75.5	74.4	73.3	72.2	71.1	70.1	67.9	53.9
17.5°	112.1	108.9	107.8	103.5	98.1	92.7	88.4	84.1	79.8	76.5	51.7
20°	263.0	261.9	256.6	243.6	229.6	213.4	197.3	178.9	153.1	135.8	51.7
22.5°	456.0	449.5	439.8	430.1	405.3	376.2	346.0	311.5	278.1	242.5	55.0
25°	729.8	744.9	712.5	686.7	643.5	590.7	533.6	486.2	425.8	369.7	63.6
27.5°	1268.8	1278.5	1214.9	1130.8	1030.5	919.5	811.7	730.9	629.5	536.8	79.8
30°	2224.9	2234.6	2127.9	1949.0	1742.0	1559.8	1313.0	1096.3	896.9	742.7	93.8
31°	2776.9	2701.4	2577.4	2403.9	2141.9	1867.0	1570.6	1308.7	1056.4	853.8	98.1
32°	3256.6	3250.1	3105.6	2842.6	2579.6	2240.0	1872.4	1530.7	1221.3	965.9	101.3
33°	3822.5	3779.4	3575.6	3327.7	2979.5	2637.8	2163.5	1773.3	1390.6	1090.9	103.5
34°	4276.3	4159.9	4075.8	3792.3	3424.7	2989.2	2481.5	2029.8	1601.9	1211.6	104.6
35°	4609.4	4584.6	4420.8	4156.7	3782.6	3337.4	2824.3	2296.1	1778.7	1351.8	104.6
36°	4961.9	4885.4	4725.8	4486.5	4122.2	3661.9	3086.2	2526.8	1984.5	1477.9	103.5
37°	5182.9	5137.6	4979.1	4732.3	4375.5	3935.7	3379.4	2770.4	2148.4	1604.0	101.3
38°	5410.3	5318.7	5162.4	4926.3	4576.0	4163.1	3591.8	2958.0	2299.3	1715.1	98.1
39°	5567.7	5472.9	5313.3	5078.3	4735.5	4325.9	3760.0	3117.5	2430.8	1798.1	93.8
40°	5686.3	5594.7	5433.0	5191.5	4853.0	4454.2	3900.1	3258.7	2540.8	1870.3	88.4
41°	5759.6	5674.4	5513.8	5273.4	4933.9	4527.5	3991.7	3350.3	2615.2	1918.8	83.0
42°	5821.0	5733.7	5569.9	5324.1	4983.5	4590.0	4047.8	3408.5	2665.8	1943.6	78.7
43°	5855.5	5768.2	5608.7	5357.5	5013.6	4619.1	4078.0	3435.5	2683.1	1940.3	71.1
44°	5874.9	5784.4	5623.8	5372.6	5026.6	4626.7	4080.1	3430.1	2671.2	1914.5	64.7
45°	5853.4	5763.9	5608.7	5357.5	5003.9	4602.9	4058.6	3401.0	2625.9	1863.8	57.1
46°	5713.2	5644.3	5502.0	5271.3	4932.8	4542.6	4003.6	3344.9	2555.9	1801.3	48.5
47°	5466.4	5411.4	5273.4	5102.0	4795.9	4431.5	3902.3	3238.2	2457.8	1707.5	38.8
48°	5208.8	5127.9	4999.6	4823.9	4565.2	4232.1	3735.2	3081.9	2309.0	1584.6	34.5
49°	4828.2	4780.8	4667.6	4471.4	4256.9	3963.7	3499.1	2881.4	2126.8	1450.9	30.2
50°	4479.0	4446.6	4288.2	4143.7	3916.3	3642.5	3178.9	2617.3	1900.5	1284.9	26.9
51°	4206.2	4167.4	4053.2	3873.2	3630.6	3312.6	2876.0	2274.5	1640.7	1087.7	21.6
52°	3921.7	3900.1	3798.8	3613.4	3375.1	3058.2	2581.7	1983.5	1388.4	919.5	17.2
53°	3688.8	3657.6	3533.6	3368.7	3111.0	2783.3	2262.7	1712.9	1176.1	772.9	15.1
54°	3349.3	3336.3	3256.6	3084.1	2804.9	2448.1	1973.8	1442.3	981.0	655.4	12.9
55°	2988.1	2945.0	2864.2	2727.3	2470.7	2137.6	1639.6	1195.5	793.4	551.9	9.7
56°	2548.3	2546.2	2401.7	2287.5	2060.0	1706.4	1309.7	933.5	644.6	460.3	8.6
57°	2127.9	2060.0	1920.9	1807.8	1563.1	1294.6	972.3	699.6	504.5	373.0	6.5
58°	1573.8	1538.3	1501.6	1335.6	1109.2	917.4	694.2	491.6	373.0	284.6	4.3
59°	1068.3	1067.2	1024.1	897.9	767.5	571.3	433.3	334.2	256.6	209.1	3.2
60°	806.3	786.9	700.7	617.7	482.9	361.1	256.6	197.3	159.5	134.7	2.2
62.5°	282.4	293.2	257.6	213.4	162.8	133.7	102.4	83.0	67.9	55.0	0.0
65°	58.2	63.6	55.0	51.7	41.0	35.6	31.3	26.9	22.6	19.4	0.0



TEST NUMBER: P1312566

CATALOG NUMBER: P3SQAS17R259727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	7.5	6.5	6.5	6.5	5.4	5.4	5.4	5.4	4.3	4.3	1.1
70°	3.2	3.2	3.2	3.2	3.2	3.2	2.2	2.2	2.2	2.2	1.1
72.5°	3.2	3.2	3.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	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	2.2
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

TEST NUMBER: P1312566

CATALOG NUMBER: P3SQAS17R259727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	62.5	62.5	62.5	62.5	62.5	62.5
2.5°	65.8	63.6	60.4	59.3	58.2	58.2
5°	64.7	60.4	57.1	53.9	52.8	52.8
7.5°	61.4	56.1	51.7	49.6	48.5	47.4
10°	58.2	50.7	46.4	44.2	44.2	44.2
12.5°	51.7	45.3	41.0	39.9	41.0	41.0
15°	46.4	38.8	36.7	36.7	37.7	38.8
17.5°	39.9	34.5	32.3	33.4	34.5	35.6
20°	35.6	29.1	29.1	30.2	33.4	33.4
22.5°	31.3	25.9	25.9	29.1	31.3	32.3
25°	28.0	22.6	23.7	26.9	30.2	31.3
27.5°	23.7	19.4	21.6	25.9	29.1	30.2
30°	20.5	17.2	20.5	24.8	28.0	30.2
31°	19.4	16.2	20.5	23.7	28.0	30.2
32°	17.2	16.2	19.4	23.7	28.0	29.1
33°	16.2	15.1	19.4	23.7	28.0	29.1
34°	15.1	14.0	18.3	23.7	28.0	29.1
35°	12.9	14.0	18.3	22.6	26.9	29.1
36°	11.9	12.9	18.3	22.6	26.9	29.1
37°	10.8	12.9	17.2	22.6	26.9	29.1
38°	9.7	11.9	17.2	22.6	26.9	29.1
39°	8.6	11.9	16.2	22.6	26.9	29.1
40°	7.5	10.8	16.2	21.6	26.9	29.1
41°	7.5	10.8	16.2	21.6	26.9	29.1
42°	6.5	10.8	16.2	21.6	26.9	29.1
43°	5.4	9.7	16.2	21.6	26.9	29.1
44°	4.3	9.7	15.1	21.6	26.9	29.1
45°	4.3	9.7	15.1	21.6	26.9	29.1
46°	3.2	8.6	15.1	21.6	26.9	29.1
47°	2.2	8.6	15.1	20.5	26.9	29.1
48°	2.2	8.6	15.1	20.5	26.9	29.1
49°	2.2	8.6	14.0	20.5	26.9	29.1
50°	2.2	8.6	14.0	20.5	26.9	29.1
51°	1.1	7.5	14.0	20.5	26.9	29.1
52°	1.1	7.5	14.0	20.5	26.9	30.2
53°	1.1	7.5	14.0	20.5	26.9	29.1
54°	1.1	7.5	12.9	20.5	26.9	29.1
55°	1.1	7.5	12.9	20.5	26.9	29.1
56°	1.1	6.5	12.9	19.4	26.9	29.1
57°	2.2	6.5	12.9	19.4	26.9	28.0
58°	2.2	6.5	12.9	19.4	25.9	28.0
59°	2.2	6.5	12.9	19.4	25.9	28.0
60°	2.2	6.5	11.9	19.4	25.9	28.0
62.5°	2.2	6.5	11.9	18.3	24.8	26.9
65°	2.2	6.5	10.8	17.2	24.8	25.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.2	5.4	10.8	16.2	23.7	24.8
70°	3.2	5.4	9.7	16.2	22.6	23.7
72.5°	3.2	5.4	9.7	14.0	20.5	22.6
75°	3.2	5.4	8.6	12.9	19.4	20.5
77.5°	3.2	5.4	7.5	11.9	17.2	18.3
80°	4.3	5.4	6.5	9.7	15.1	16.2
82.5°	4.3	5.4	5.4	7.5	11.9	12.9
85°	3.2	4.3	4.3	5.4	7.5	8.6
87.5°	3.2	4.3	3.2	2.2	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)