

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: P1310382

Luminaire Tested: P3SQAS17R259040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310382
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: P3SQAS17R259040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

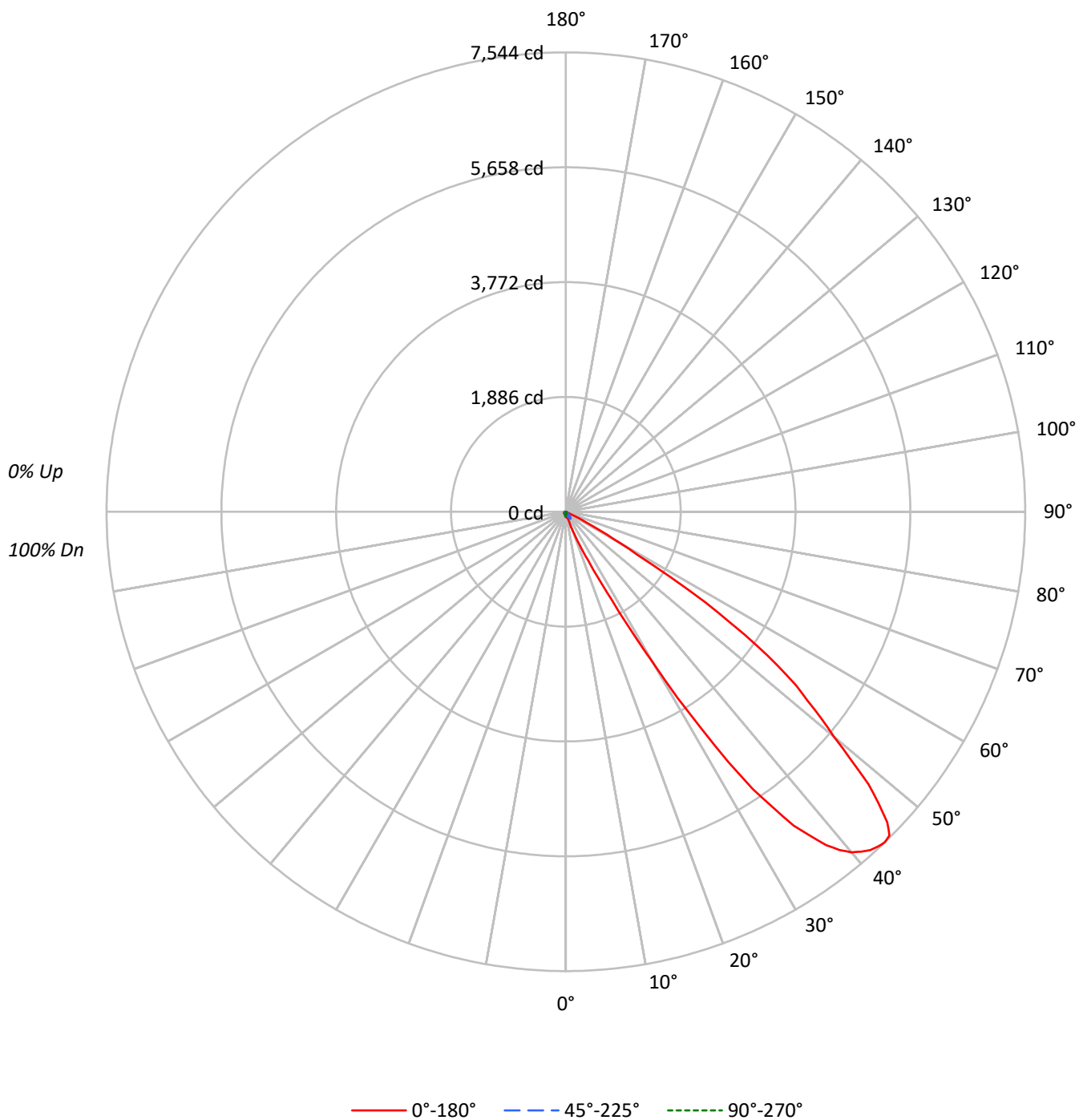
Lumens per Lamp: N/A
Luminaire Lumens: 1573.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310382

CATALOG NUMBER: P3SQAS17R259040DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310382

CATALOG NUMBER: P3SQAS17R259040DE010 E3SQCA451MMS

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°	13829	13829	13829	13829	13829
5°	15801	15075	13398	11963	11721
10°	15739	14288	11385	9933	9933
15°	17527	12338	8879	8398	8879
20°	61892	12169	6855	7111	7863
25°	178074	15525	5530	6575	7620
30°	568159	23943	4395	6324	7716
35°	1244419	28236	3784	6118	7863
40°	1641573	25517	3103	6228	8408
45°	1830643	17877	3044	6747	9109
50°	1540978	9270	2974	7047	10021
55°	1152102	3753	2913	7897	11230
60°	356639	964	2859	8577	12400
65°	30441	0	3382	9006	13529
70°	2115	705	3474	10474	15358
75°	1863	932	4591	11046	17500
80°	1389	1389	6843	12397	20629
85°	2766	2766	10868	13635	21934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1830643 cd/sqm

TEST NUMBER: P1310382

CATALOG NUMBER: P3SQAS17R259040DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.5
10°-20°	18.5	1.2
20°-30°	87.0	5.5
30°-40°	419.0	26.6
40°-50°	656.8	41.8
50°-60°	336.7	21.4
60°-70°	31.8	2.0
70°-80°	10.7	0.7
80°-90°	5.4	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°	112.8	7.2
0°-40°	531.8	33.8
0°-60°	1525.2	97.0
0°-90°	1573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	91	87	78	69	68	9
15°	98	69	50	47	50	41
25°	937	82	29	35	40	581
35°	5919	134	18	29	37	3593
45°	7516	73	12	28	37	5500
55°	3837	12	10	26	37	3194
65°	75	0	8	22	33	234
75°	3	1	7	17	26	3
85°	1	1	6	7	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1310382

CATALOG NUMBER: P3SQAS17R259040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
2.5°	87.2	87.2	87.2	87.2	87.2	87.2	85.8	85.8	87.2	85.8	85.8
5°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	90.0	90.0	90.0	87.2
7.5°	92.7	91.4	91.4	91.4	91.4	91.4	91.4	91.4	90.0	90.0	85.8
10°	90.0	90.0	90.0	90.0	88.6	88.6	88.6	87.2	87.2	87.2	81.7
12.5°	90.0	90.0	90.0	90.0	88.6	88.6	87.2	87.2	85.8	84.4	74.7
15°	98.3	98.3	98.3	96.9	95.5	94.1	92.7	91.4	90.0	87.2	69.2
17.5°	144.0	139.8	138.4	132.9	126.0	119.0	113.5	108.0	102.4	98.3	66.4
20°	337.7	336.4	329.4	312.8	294.8	274.1	253.3	229.8	196.6	174.4	66.4
22.5°	585.5	577.2	564.8	552.3	520.5	483.1	444.3	400.0	357.1	311.4	70.6
25°	937.1	956.5	915.0	881.7	826.4	758.5	685.2	624.3	546.8	474.8	81.7
27.5°	1629.2	1641.7	1560.0	1452.0	1323.3	1180.7	1042.3	938.5	808.4	689.3	102.4
30°	2857.0	2869.5	2732.4	2502.6	2236.9	2002.9	1686.0	1407.7	1151.7	953.7	120.4
31°	3565.7	3468.8	3309.6	3086.8	2750.4	2397.4	2016.8	1680.4	1356.5	1096.3	126.0
32°	4181.7	4173.4	3987.9	3650.1	3312.4	2876.4	2404.4	1965.6	1568.3	1240.2	130.1
33°	4908.4	4853.0	4591.4	4273.0	3825.9	3387.1	2778.1	2277.0	1785.6	1400.8	132.9
34°	5491.1	5341.6	5233.7	4869.6	4397.6	3838.4	3186.4	2606.5	2056.9	1555.8	134.3
35°	5918.9	5887.0	5676.6	5337.5	4857.2	4285.5	3626.6	2948.4	2283.9	1735.8	134.3
36°	6371.5	6273.2	6068.3	5761.1	5293.2	4702.1	3963.0	3244.6	2548.3	1897.7	132.9
37°	6655.2	6597.1	6393.6	6076.7	5618.5	5053.7	4339.5	3557.4	2758.7	2059.7	130.1
38°	6947.3	6829.7	6628.9	6325.8	5875.9	5345.8	4612.2	3798.3	2952.5	2202.3	126.0
39°	7149.4	7027.6	6822.7	6521.0	6080.8	5554.8	4828.1	4003.1	3121.4	2308.9	120.4
40°	7301.7	7184.0	6976.4	6666.3	6231.7	5719.5	5008.0	4184.4	3262.6	2401.6	113.5
41°	7395.8	7286.4	7080.2	6771.5	6335.5	5813.7	5125.7	4302.1	3358.1	2463.9	106.6
42°	7474.7	7362.6	7152.2	6836.6	6399.2	5893.9	5197.7	4376.8	3423.1	2495.7	101.0
43°	7519.0	7406.9	7202.0	6879.5	6437.9	5931.3	5236.4	4411.5	3445.3	2491.6	91.4
44°	7543.9	7427.6	7221.4	6898.9	6454.5	5941.0	5239.2	4404.5	3430.1	2458.3	83.1
45°	7516.2	7401.3	7202.0	6879.5	6425.5	5910.5	5211.5	4367.2	3371.9	2393.3	73.4
46°	7336.3	7247.7	7065.0	6768.8	6334.1	5833.0	5140.9	4295.2	3281.9	2313.0	62.3
47°	7019.3	6948.7	6771.5	6551.4	6158.3	5690.5	5010.8	4158.1	3156.0	2192.6	49.8
48°	6688.5	6584.7	6419.9	6194.3	5862.1	5434.4	4796.3	3957.4	2965.0	2034.8	44.3
49°	6199.8	6138.9	5993.6	5741.7	5466.2	5089.7	4493.1	3700.0	2731.0	1863.1	38.8
50°	5751.4	5709.8	5506.4	5320.9	5028.8	4677.2	4082.0	3360.8	2440.3	1650.0	34.6
51°	5401.2	5351.3	5204.6	4973.4	4662.0	4253.7	3693.1	2920.7	2106.8	1396.7	27.7
52°	5035.7	5008.0	4877.9	4639.8	4333.9	3927.0	3315.2	2546.9	1782.9	1180.7	22.1
53°	4736.7	4696.6	4537.4	4325.6	3994.8	3574.0	2905.4	2199.5	1510.2	992.5	19.4
54°	4300.7	4284.1	4181.7	3960.2	3601.7	3143.5	2534.5	1852.1	1259.6	841.6	16.6
55°	3837.0	3781.6	3677.8	3502.0	3172.6	2744.9	2105.4	1535.1	1018.8	708.7	12.5
56°	3272.3	3269.5	3084.0	2937.3	2645.2	2191.2	1681.8	1198.7	827.8	591.1	11.1
57°	2732.4	2645.2	2466.6	2321.3	2007.1	1662.4	1248.6	898.3	647.8	478.9	8.3
58°	2020.9	1975.3	1928.2	1715.0	1424.3	1178.0	891.4	631.2	478.9	365.4	5.5
59°	1371.7	1370.4	1315.0	1153.0	985.6	733.6	556.4	429.1	329.4	268.5	4.2
60°	1035.4	1010.5	899.7	793.1	620.1	463.7	329.4	253.3	204.9	173.0	2.8
62.5°	362.7	376.5	330.8	274.1	209.0	171.6	131.5	106.6	87.2	70.6	0.0
65°	74.7	81.7	70.6	66.4	52.6	45.7	40.1	34.6	29.1	24.9	0.0



TEST NUMBER: P1310382

CATALOG NUMBER: P3SQAS17R259040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	9.7	8.3	8.3	8.3	6.9	6.9	6.9	6.9	5.5	5.5	1.4
70°	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8	1.4
72.5°	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
85°	1.4	1.4	1.4	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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: P1310382

CATALOG NUMBER: P3SQAS17R259040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	80.3	80.3	80.3	80.3	80.3	80.3
2.5°	84.4	81.7	77.5	76.1	74.7	74.7
5°	83.1	77.5	73.4	69.2	67.8	67.8
7.5°	78.9	72.0	66.4	63.7	62.3	60.9
10°	74.7	65.1	59.5	56.8	56.8	56.8
12.5°	66.4	58.1	52.6	51.2	52.6	52.6
15°	59.5	49.8	47.1	47.1	48.4	49.8
17.5°	51.2	44.3	41.5	42.9	44.3	45.7
20°	45.7	37.4	37.4	38.8	42.9	42.9
22.5°	40.1	33.2	33.2	37.4	40.1	41.5
25°	36.0	29.1	30.5	34.6	38.8	40.1
27.5°	30.5	24.9	27.7	33.2	37.4	38.8
30°	26.3	22.1	26.3	31.8	36.0	38.8
31°	24.9	20.8	26.3	30.5	36.0	38.8
32°	22.1	20.8	24.9	30.5	36.0	37.4
33°	20.8	19.4	24.9	30.5	36.0	37.4
34°	19.4	18.0	23.5	30.5	36.0	37.4
35°	16.6	18.0	23.5	29.1	34.6	37.4
36°	15.2	16.6	23.5	29.1	34.6	37.4
37°	13.8	16.6	22.1	29.1	34.6	37.4
38°	12.5	15.2	22.1	29.1	34.6	37.4
39°	11.1	15.2	20.8	29.1	34.6	37.4
40°	9.7	13.8	20.8	27.7	34.6	37.4
41°	9.7	13.8	20.8	27.7	34.6	37.4
42°	8.3	13.8	20.8	27.7	34.6	37.4
43°	6.9	12.5	20.8	27.7	34.6	37.4
44°	5.5	12.5	19.4	27.7	34.6	37.4
45°	5.5	12.5	19.4	27.7	34.6	37.4
46°	4.2	11.1	19.4	27.7	34.6	37.4
47°	2.8	11.1	19.4	26.3	34.6	37.4
48°	2.8	11.1	19.4	26.3	34.6	37.4
49°	2.8	11.1	18.0	26.3	34.6	37.4
50°	2.8	11.1	18.0	26.3	34.6	37.4
51°	1.4	9.7	18.0	26.3	34.6	37.4
52°	1.4	9.7	18.0	26.3	34.6	38.8
53°	1.4	9.7	18.0	26.3	34.6	37.4
54°	1.4	9.7	16.6	26.3	34.6	37.4
55°	1.4	9.7	16.6	26.3	34.6	37.4
56°	1.4	8.3	16.6	24.9	34.6	37.4
57°	2.8	8.3	16.6	24.9	34.6	36.0
58°	2.8	8.3	16.6	24.9	33.2	36.0
59°	2.8	8.3	16.6	24.9	33.2	36.0
60°	2.8	8.3	15.2	24.9	33.2	36.0
62.5°	2.8	8.3	15.2	23.5	31.8	34.6
65°	2.8	8.3	13.8	22.1	31.8	33.2



TEST NUMBER: P1310382

CATALOG NUMBER: P3SQAS17R259040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.8	6.9	13.8	20.8	30.5	31.8
70°	4.2	6.9	12.5	20.8	29.1	30.5
72.5°	4.2	6.9	12.5	18.0	26.3	29.1
75°	4.2	6.9	11.1	16.6	24.9	26.3
77.5°	4.2	6.9	9.7	15.2	22.1	23.5
80°	5.5	6.9	8.3	12.5	19.4	20.8
82.5°	5.5	6.9	6.9	9.7	15.2	16.6
85°	4.2	5.5	5.5	6.9	9.7	11.1
87.5°	4.2	5.5	4.2	2.8	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)