

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: P1313241

Luminaire Tested: P3SQAS09R309730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R309730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

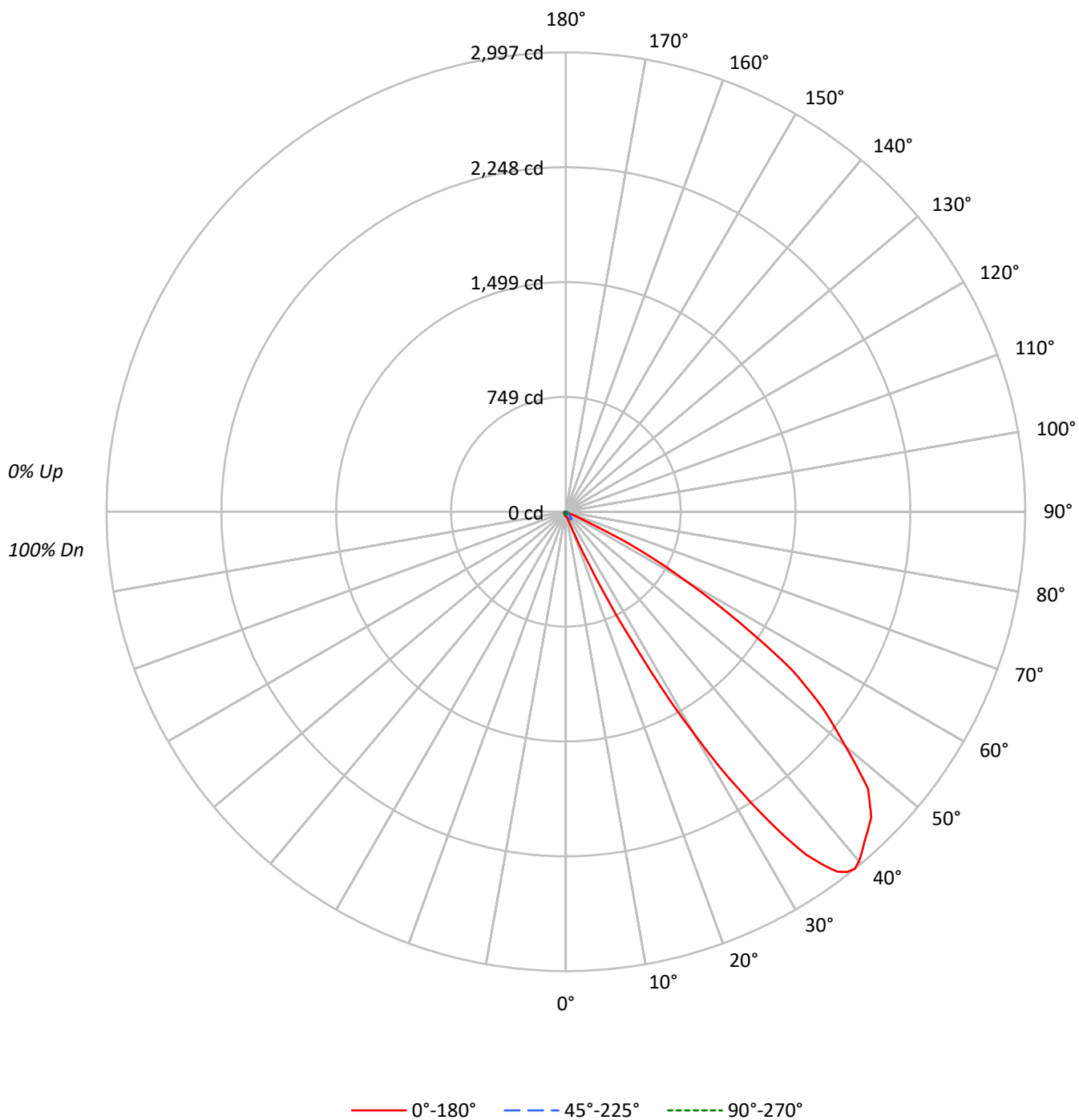
Lumens per Lamp: N/A
Luminaire Lumens: 779.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1313241

CATALOG NUMBER: P3SQAS09R309730DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1313241

CATALOG NUMBER: P3SQAS09R309730DE010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48
7	62	48	38	32	60	47	38	32	45	37	31		44	36	31		42
8	56	42	33	27	55	41	33	27	40	32	26		39	32	26		37
9	52	37	29	23	50	37	28	23	36	28	22		34	27	22		33
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5201	5201	5201	5201	5201
5°	5567	5446	5100	4650	4529
10°	6086	5386	4477	4022	3900
15°	8897	5385	3744	3388	3512
20°	22378	5901	2877	2877	3244
25°	103869	7354	2242	2622	2983
30°	330674	10182	1690	2486	3003
35°	573780	12425	1388	2355	3028
40°	669179	12388	1034	2361	3103
45°	686278	8793	1120	2557	3361
50°	638211	4930	884	2626	3858
55°	542422	2552	991	2943	4324
60°	313273	689	1137	3169	4753
65°	63898	0	1345	3749	5338
70°	1007	352	1662	4280	6294
75°	865	466	1730	4392	7453
80°	694	694	2579	5157	8430
85°	0	1383	5138	5138	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 686278 cd/sqm

TEST NUMBER: P1313241

CATALOG NUMBER: P3SQAS09R309730DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.4
10°-20°	7.9	1.0
20°-30°	44.9	5.8
30°-40°	209.8	26.9
40°-50°	296.7	38.1
50°-60°	182.5	23.4
60°-70°	27.8	3.6
70°-80°	4.4	0.6
80°-90°	2.2	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°	55.5	7.1
0°-40°	265.3	34.1
0°-60°	744.6	95.6
0°-90°	779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	32	32	30	27	26	3
15°	50	30	21	19	20	18
25°	547	39	12	14	16	336
35°	2729	59	7	11	14	1638
45°	2818	36	5	10	14	2136
55°	1806	8	3	10	14	1537
65°	157	0	3	9	13	284
75°	1	1	3	7	11	1
85°	0	1	3	3	5	0
90°	0	0	0	0	0	

TEST NUMBER: P1313241

CATALOG NUMBER: P3SQAS09R309730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
2.5°	30.8	30.8	31.5	31.5	30.8	31.5	31.5	31.5	30.2	29.5	28.2
5°	32.2	32.2	32.2	32.8	32.2	32.2	31.5	30.8	29.5	27.6	26.9
7.5°	33.5	33.5	32.8	33.5	32.8	32.8	31.5	30.2	28.2	26.2	24.9
10°	34.8	34.8	34.1	34.1	33.5	33.5	30.8	28.9	25.6	23.6	23.0
12.5°	38.7	38.7	38.1	37.4	36.1	35.4	30.2	26.9	23.0	21.0	20.3
15°	49.9	49.2	47.9	45.9	42.7	42.0	30.2	24.9	21.0	19.0	19.0
17.5°	68.2	67.6	65.6	60.4	54.5	52.5	30.2	22.3	18.4	17.1	17.1
20°	122.1	116.8	107.0	93.8	80.1	72.8	32.2	19.7	15.7	15.1	15.7
21°	159.5	154.2	141.7	120.1	95.8	87.9	33.5	19.0	15.1	14.4	15.7
22°	217.2	211.3	185.7	156.2	121.4	107.6	34.1	17.7	13.8	13.8	15.1
23°	303.2	293.3	250.0	202.8	151.6	131.9	35.4	17.1	13.1	13.8	14.4
24°	397.0	388.5	339.3	268.4	193.6	165.4	36.7	16.4	12.5	12.5	13.8
25°	546.6	536.8	449.5	338.6	245.4	198.8	38.7	15.1	11.8	11.8	13.8
26°	740.2	694.9	578.8	436.4	302.5	249.4	40.7	14.4	11.2	11.8	13.1
27°	923.9	886.5	755.9	559.7	374.0	306.4	43.3	13.8	10.5	11.2	13.1
28°	1165.4	1112.9	948.2	708.0	471.1	370.8	45.9	13.1	9.8	11.2	12.5
29°	1435.8	1362.3	1163.4	874.7	580.7	442.9	48.6	12.5	9.2	10.5	12.5
30°	1662.8	1593.9	1395.1	1072.2	706.7	538.1	51.2	11.8	8.5	10.5	12.5
31°	1929.2	1824.9	1584.1	1239.6	815.0	633.2	53.8	10.5	7.9	9.8	11.8
32°	2145.1	2072.3	1816.4	1428.5	957.4	738.2	55.8	9.8	7.9	9.8	11.8
33°	2353.8	2256.0	2008.6	1609.7	1086.0	845.8	57.7	9.2	7.2	9.2	11.8
34°	2553.3	2463.4	2190.4	1756.0	1207.4	948.2	59.1	7.9	7.2	9.2	11.2
35°	2729.1	2624.8	2350.5	1899.0	1332.1	1041.4	59.1	7.2	6.6	8.5	11.2
36°	2843.3	2768.5	2489.6	2040.1	1444.9	1130.0	59.1	6.6	5.9	8.5	10.5
37°	2941.1	2853.8	2601.2	2148.4	1528.3	1200.8	59.1	5.9	5.9	8.5	10.5
38°	2981.1	2906.3	2677.9	2244.2	1606.4	1273.0	58.4	5.2	5.2	7.9	10.5
39°	2996.9	2929.9	2735.7	2313.1	1664.1	1321.6	57.1	4.6	5.2	7.9	10.5
40°	2976.5	2926.0	2765.2	2357.7	1710.0	1357.0	55.1	3.9	4.6	7.9	10.5
42.5°	2892.5	2859.0	2758.7	2402.3	1749.4	1383.3	47.9	2.6	4.6	7.2	10.5
45°	2817.7	2781.0	2692.4	2355.7	1698.2	1331.4	36.1	1.3	4.6	7.2	10.5
47.5°	2672.7	2649.7	2580.2	2237.0	1586.0	1214.6	25.6	0.7	3.9	6.6	9.8
50°	2382.0	2360.3	2268.5	1942.3	1364.2	1026.9	18.4	0.7	3.3	6.6	9.8
52.5°	2121.5	2098.5	1966.6	1614.9	1047.9	752.7	11.8	0.7	3.3	6.6	9.8
55°	1806.5	1766.5	1593.2	1225.8	742.8	504.6	8.5	0.7	3.3	5.9	9.8
57.5°	1337.3	1278.9	1124.1	836.0	427.8	273.6	4.6	0.7	3.3	5.9	9.8
60°	909.5	874.7	703.4	441.0	182.4	115.5	2.0	0.7	3.3	5.9	9.2
62.5°	551.2	507.2	353.7	187.7	78.7	52.5	0.0	1.3	3.3	5.9	9.2
65°	156.8	139.1	92.5	42.7	22.3	17.1	0.0	1.3	3.3	5.9	9.2
67.5°	5.2	5.2	5.2	4.6	3.3	3.3	0.7	1.3	3.3	5.9	8.5
70°	2.0	2.0	2.0	1.3	1.3	0.7	0.7	1.3	3.3	5.2	8.5
72.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	1.3	2.6	4.6	7.9
75°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	2.6	4.6	6.6
77.5°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	2.6	3.9	6.6
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.6	3.9	5.2



TEST NUMBER: P1313241

CATALOG NUMBER: P3SQAS09R309730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.7	2.0	2.6	2.6	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.6	2.0	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.0	2.0	1.3
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: P1313241

CATALOG NUMBER: P3SQAS09R309730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	30.2	30.2
2.5°	28.2	28.2
5°	26.2	26.2
7.5°	24.3	24.3
10°	22.3	22.3
12.5°	21.0	21.0
15°	19.0	19.7
17.5°	17.7	18.4
20°	17.1	17.7
21°	17.1	17.7
22°	16.4	17.1
23°	16.4	17.1
24°	15.7	16.4
25°	15.1	15.7
26°	15.1	15.7
27°	15.1	15.7
28°	14.4	15.7
29°	14.4	15.1
30°	14.4	15.1
31°	13.8	15.1
32°	13.8	15.1
33°	13.8	14.4
34°	13.1	14.4
35°	13.1	14.4
36°	13.1	14.4
37°	13.1	13.8
38°	13.1	14.4
39°	13.1	13.8
40°	13.1	13.8
42.5°	13.1	13.8
45°	13.1	13.8
47.5°	13.1	14.4
50°	13.1	14.4
52.5°	13.1	14.4
55°	13.1	14.4
57.5°	13.1	13.8
60°	13.1	13.8
62.5°	12.5	13.8
65°	12.5	13.1
67.5°	12.5	13.1
70°	11.8	12.5
72.5°	11.2	11.8
75°	9.8	11.2
77.5°	9.2	9.8
80°	7.9	8.5

TEST NUMBER: P1313241

CATALOG NUMBER: P3SQAS09R309730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	6.6	6.6
85°	4.6	5.2
87.5°	2.6	2.6
90°	0.0	0.0

(END OF REPORT)