

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: P1310901

Luminaire Tested: P3SQAS02R509050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

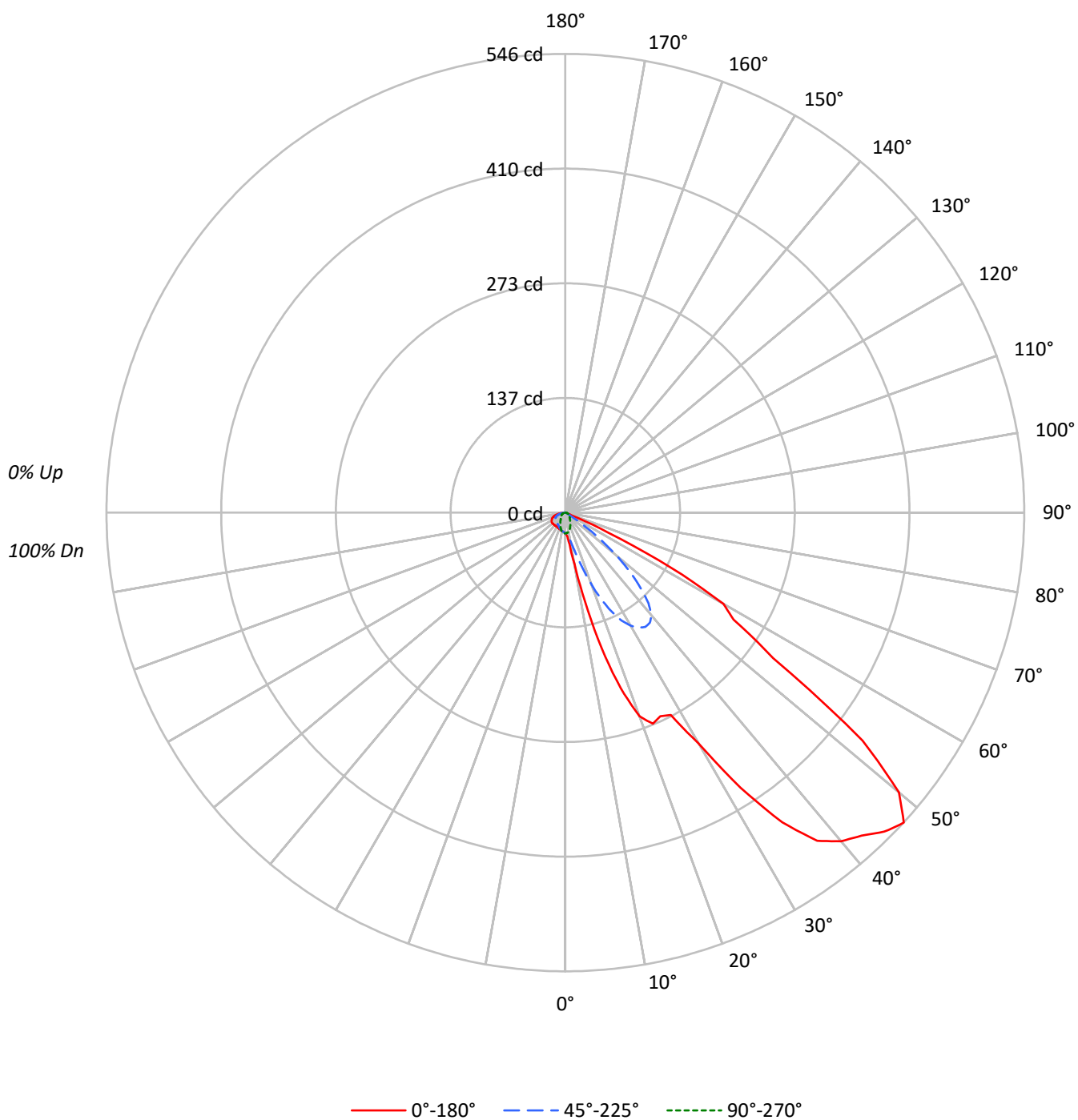
Lumens per Lamp: N/A
Luminaire Lumens: 308.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1310901

CATALOG NUMBER: P3SQAS02R509050DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1310901

CATALOG NUMBER: P3SQAS02R509050DE010 E3SQCA451MW

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4219	4219	4219	4219	4219
5°	5014	4685	4184	3994	3959
10°	10790	5823	4005	3865	3900
15°	29883	9539	3602	3709	3833
20°	47248	16715	3116	3556	3757
25°	50813	24570	2679	3439	3801
30°	63060	30844	2327	3381	3918
35°	94631	34901	2018	3406	4142
40°	114771	35881	1799	3530	4362
45°	130767	30786	1754	3751	4798
50°	138788	21247	1795	4073	5359
55°	90649	8557	1772	4384	5915
60°	74779	1481	1757	4753	6510
65°	22535	774	1630	5094	7172
70°	957	806	1611	5237	7755
75°	865	865	1597	5323	8517
80°	793	793	1587	5256	8728
85°	593	988	2174	5335	8497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 139238 cd/sqm

TEST NUMBER: P1310901

CATALOG NUMBER: P3SQAS02R509050DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.8
10°-20°	14.6	4.7
20°-30°	37.5	12.2
30°-40°	67.3	21.9
40°-50°	90.0	29.2
50°-60°	68.5	22.2
60°-70°	20.8	6.8
70°-80°	5.0	1.6
80°-90°	1.8	0.6
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°	54.6	17.7
0°-40°	122.0	39.6
0°-60°	280.4	91.0
0°-90°	308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	308.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	29	27	24	23	23	4
15°	168	54	20	21	22	49
25°	267	129	14	18	20	128
35°	450	166	10	16	20	276
45°	537	126	7	15	20	410
55°	302	28	6	15	20	300
65°	55	2	4	12	18	77
75°	1	1	2	8	13	1
85°	0	0	1	3	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1310901

CATALOG NUMBER: P3SQAS02R509050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
2.5°	26.1	26.1	26.1	26.1	26.1	26.1	25.8	25.8	25.8	25.3	24.7
5°	29.0	29.3	29.0	29.0	28.5	28.5	27.9	27.9	27.1	25.5	24.2
7.5°	38.0	37.8	37.5	36.4	35.6	33.8	33.0	31.7	29.3	25.5	23.7
10°	61.7	60.1	59.1	56.7	51.6	48.4	44.2	39.9	33.3	25.5	22.9
12.5°	107.2	106.9	103.8	95.8	88.6	78.7	68.4	58.0	41.0	25.0	21.8
15°	167.6	165.2	160.7	151.4	138.6	123.2	104.6	86.2	53.5	24.2	20.2
17.5°	219.2	216.3	212.8	203.5	188.9	169.5	147.1	121.8	70.5	23.1	18.6
20°	257.8	255.9	253.0	245.5	231.7	214.2	189.1	158.6	91.2	21.8	17.0
22.5°	271.9	271.6	272.2	269.5	262.6	248.7	224.8	192.9	111.7	20.2	15.4
25°	267.4	267.1	270.6	274.0	275.6	270.0	251.7	220.5	129.3	18.9	14.1
27.5°	271.6	270.8	269.2	269.8	274.3	277.5	269.0	241.8	144.5	17.0	12.8
30°	317.1	312.6	305.4	293.2	284.1	283.3	279.6	258.6	155.1	15.2	11.7
32.5°	388.1	382.6	369.5	346.9	325.4	308.9	297.2	272.7	162.5	13.3	10.4
35°	450.1	446.1	431.0	408.6	377.8	346.9	325.6	293.4	166.0	11.7	9.6
37.5°	492.2	490.6	475.7	451.7	420.3	383.9	355.7	314.7	165.2	9.8	8.8
40°	510.5	505.7	493.2	473.0	441.3	408.6	378.8	328.3	159.6	8.0	8.0
42.5°	521.4	516.1	502.5	483.4	452.3	417.4	381.5	322.4	146.3	6.4	7.7
45°	536.9	531.3	513.4	493.0	461.6	421.1	371.1	301.7	126.4	4.8	7.2
47.5°	546.2	542.4	529.1	508.7	470.6	415.8	347.2	282.3	104.3	3.7	6.9
50°	518.0	514.2	504.4	490.3	464.8	398.0	326.2	250.9	79.3	2.9	6.7
52.5°	445.9	449.1	450.9	454.9	436.3	358.1	294.8	225.9	53.5	2.4	6.1
55°	301.9	306.7	312.1	328.0	349.8	318.7	261.8	195.3	28.5	2.4	5.9
57.5°	237.3	235.7	234.1	233.0	250.1	262.8	230.1	156.2	12.2	2.4	5.3
60°	217.1	212.3	209.1	209.9	218.4	213.4	182.2	101.9	4.3	2.4	5.1
62.5°	142.3	146.1	153.2	165.5	159.6	137.0	105.9	40.4	2.1	2.4	4.5
65°	55.3	53.5	55.3	58.8	50.8	37.8	23.7	7.2	1.9	2.1	4.0
67.5°	7.4	6.7	5.1	3.2	2.9	2.7	2.1	1.9	1.9	2.1	3.7
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.6	1.6	1.9	3.2
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	2.7
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.4
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.6
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.1	1.3
85°	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.1
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8	0.8
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: P1310901

CATALOG NUMBER: P3SQAS02R509050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	24.5	24.5	24.5	24.5
2.5°	24.2	23.7	23.7	23.7
5°	23.7	23.1	23.1	22.9
7.5°	22.9	22.6	22.6	22.6
10°	22.3	22.1	22.3	22.3
12.5°	21.3	21.5	21.8	21.8
15°	20.2	20.8	21.3	21.5
17.5°	19.2	20.2	20.8	21.0
20°	18.1	19.4	20.2	20.5
22.5°	17.3	18.6	19.7	20.2
25°	16.2	18.1	19.4	20.0
27.5°	15.2	17.3	18.9	19.7
30°	14.4	17.0	18.9	19.7
32.5°	13.6	16.5	18.6	19.4
35°	13.0	16.2	18.6	19.7
37.5°	12.5	16.0	18.6	19.4
40°	12.2	15.7	18.6	19.4
42.5°	12.0	15.7	18.6	19.7
45°	11.4	15.4	18.6	19.7
47.5°	11.2	15.4	18.6	19.7
50°	10.9	15.2	18.6	20.0
52.5°	10.6	14.9	18.6	20.0
55°	10.1	14.6	18.4	19.7
57.5°	9.8	14.4	18.1	19.2
60°	9.3	13.8	17.6	18.9
62.5°	8.8	13.3	17.0	18.1
65°	8.0	12.5	16.2	17.6
67.5°	7.2	11.4	15.4	16.8
70°	6.4	10.4	14.4	15.4
72.5°	5.6	9.3	13.3	14.1
75°	4.8	8.0	11.7	12.8
77.5°	4.0	6.9	9.8	10.6
80°	2.9	5.3	8.0	8.8
82.5°	2.4	4.0	5.9	6.4
85°	1.6	2.7	3.7	4.3
87.5°	0.8	1.3	1.9	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)