Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1307765

Luminaire Tested: P3SQAS05R709030DE010 E3SQCA451MW

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1307765
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	P3SQAS05R709030DE010 E3SQCA451MW
Description:	3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	502.0 lumens
Efficiency:	N/A
Efficacy:	69.7 lumens/watt
Spacing Criteria (0/90/45):	2.92 / 0.77 / 2.03
Luminous Opening:	Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type:	Direct

Input Watts (W):	7.2
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

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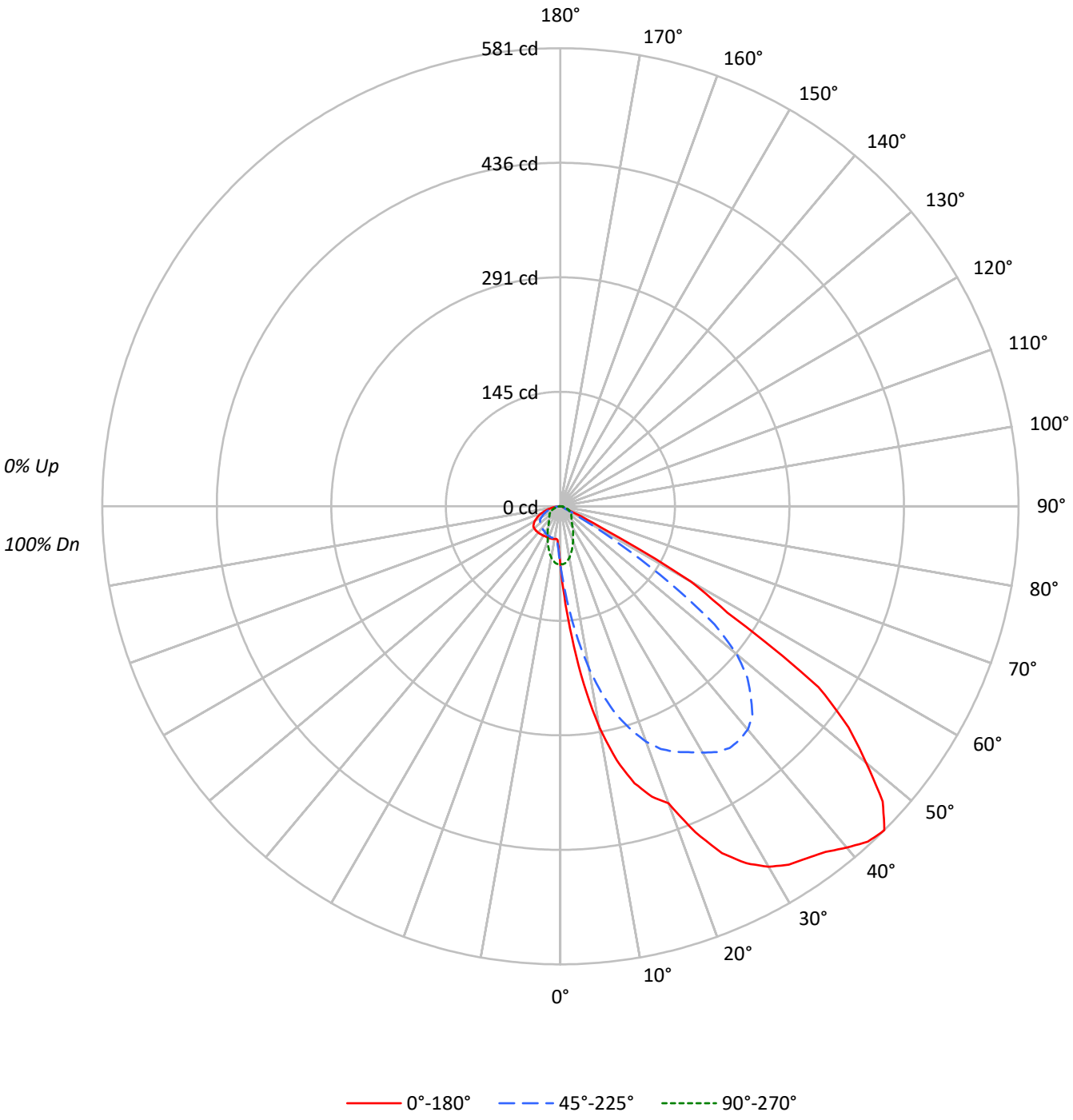
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12589	12589	12589	12589	12589
5°	28664	22941	12465	7883	7365
10°	49666	36445	11560	7188	7362
15°	64829	48675	10092	7328	7595
20°	73438	58190	8632	7441	7899
25°	92220	65293	7240	7525	8095
30°	104981	71711	6185	7676	8571
35°	114563	78653	5361	7800	9062
40°	127024	83094	4946	8116	9802
45°	141508	83200	4871	8549	10619
50°	135546	78236	4823	9002	11548
55°	120014	50684	4954	9488	12491
60°	65720	10884	4994	9644	12951
65°	4686	2649	4890	9577	13081
70°	2266	2518	4532	9064	12589
75°	1996	2662	4325	8650	11645
80°	1984	2479	3967	7934	10910
85°	1976	2964	3952	6916	9880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 141508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	1.9
10°-20°	40.8	8.1
20°-30°	78.3	15.6
30°-40°	110.7	22.1
40°-50°	125.2	24.9
50°-60°	99.2	19.8
60°-70°	26.7	5.3
70°-80°	8.9	1.8
80°-90°	2.7	0.5
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°	128.6	25.6
0°-40°	239.3	47.7
0°-60°	463.7	92.4
0°-90°	502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	166	133	72	46	43	20
15°	364	273	57	41	43	102
25°	485	344	38	40	43	222
35°	545	374	26	37	43	343
45°	581	342	20	35	44	435
55°	400	169	16	32	42	324
65°	12	6	12	24	32	42
75°	3	4	6	13	18	3
85°	1	2	2	4	5	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	*73.1*	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
2.5°	*113.7*	113.7	113.2	111.2	110.2	107.7	105.7	100.2	86.6	73.6	63.1
5°	*165.8*	168.3	164.8	164.3	161.3	156.8	153.8	132.7	100.2	72.1	54.1
7.5°	*227.4*	228.4	227.4	222.4	217.9	210.4	203.3	170.3	113.7	69.6	47.6
10°	*284.0*	282.5	279.5	276.0	269.5	261.4	249.4	208.4	126.7	66.1	43.6
12.5°	*330.1*	329.6	326.1	322.5	314.5	304.0	292.0	242.9	137.7	61.6	41.6
15°	*363.6*	363.6	360.1	356.1	348.6	340.1	326.6	273.0	146.7	56.6	39.6
17.5°	*386.2*	385.2	382.6	379.6	373.6	365.1	354.6	297.0	152.8	51.6	39.1
20°	*400.7*	400.2	398.2	393.7	388.7	382.1	372.6	317.5	155.3	47.1	38.6
22.5°	*447.3*	443.2	435.7	426.2	414.2	398.7	385.7	333.1	154.3	42.1	37.6
25°	*485.3*	483.8	475.8	464.3	448.3	428.2	406.7	343.6	149.3	38.1	36.6
27.5°	*510.4*	507.9	500.3	487.8	470.8	451.3	431.2	351.6	142.2	34.6	35.1
30°	*527.9*	526.4	518.9	504.9	487.3	465.8	445.3	360.6	132.7	31.1	33.6
32.5°	*538.9*	537.4	529.9	517.4	500.3	477.8	454.3	369.6	121.2	28.0	32.1
35°	*544.9*	543.4	534.9	523.9	507.9	485.8	460.8	374.1	107.2	25.5	30.6
37.5°	*552.4*	549.4	537.9	524.4	508.4	487.8	462.8	373.6	93.2	23.5	29.5
40°	*565.0*	556.9	540.4	522.4	505.9	485.3	461.3	369.6	77.6	22.0	28.5
42.5°	*577.0*	565.5	540.9	519.4	500.8	480.8	455.8	360.6	60.6	21.0	28.0
45°	*581.0*	*564.0*	*533.9*	*512.4*	*494.8*	*474.3*	*448.3*	*341.6*	*41.1*	*20.0*	*27.0*
47.5°	*554.4*	541.9	516.9	500.8	484.3	464.3	437.2	321.5	23.5	19.0	26.0
50°	*505.9*	497.8	483.8	473.8	464.8	450.8	424.2	292.0	14.0	18.0	25.0
52.5°	*460.8*	458.3	448.3	440.2	435.2	428.7	404.7	246.4	11.5	17.5	24.0
55°	*399.7*	391.7	389.2	386.2	396.7	396.2	363.6	168.8	11.0	16.5	23.0
57.5°	*250.9*	254.4	267.5	291.5	320.0	336.6	335.6	90.2	10.5	15.5	21.5
60°	*190.8*	190.3	194.3	204.3	225.4	248.9	271.0	31.6	10.0	14.5	20.5
62.5°	*57.1*	58.6	70.6	103.7	124.2	153.3	139.7	7.5	9.5	13.0	18.5
65°	*11.5*	12.0	12.0	13.5	16.5	25.0	30.6	6.5	9.0	12.0	17.0
67.5°	*5.0*	5.0	5.0	5.5	5.5	6.5	5.5	6.0	8.0	10.5	15.0
70°	*4.5*	4.5	4.5	4.5	4.5	4.5	5.0	5.0	7.0	9.0	13.0
72.5°	*3.5*	3.5	3.5	4.0	4.0	4.0	4.0	4.5	6.0	7.5	11.0
75°	*3.0*	3.0	3.0	3.0	3.5	3.5	3.5	4.0	5.0	6.5	9.0
77.5°	*2.5*	2.5	2.5	2.5	2.5	3.0	3.0	3.0	4.0	5.0	7.5
80°	*2.0*	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.0	4.0	5.5
82.5°	*1.5*	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.5	3.0	4.0
85°	*1.0*	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	2.5
87.5°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5
90°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	73.1	73.1	73.1
2.5°	55.6	52.6	51.1
5°	45.6	43.1	42.6
7.5°	42.1	41.6	41.6
10°	41.1	41.6	42.1
12.5°	41.1	42.1	42.6
15°	41.1	42.1	42.6
17.5°	41.1	42.1	42.6
20°	40.6	42.1	43.1
22.5°	40.1	42.1	42.6
25°	39.6	42.1	42.6
27.5°	39.1	41.6	42.6
30°	38.6	41.6	43.1
32.5°	37.6	41.6	43.1
35°	37.1	41.6	43.1
37.5°	36.6	41.6	43.6
40°	36.1	41.6	43.6
42.5°	35.6	41.6	43.6
45°	*35.1*	*41.1*	*43.6*
47.5°	34.1	41.1	43.6
50°	33.6	40.6	43.1
52.5°	32.6	40.1	43.1
55°	31.6	39.1	41.6
57.5°	30.1	37.6	39.6
60°	28.0	35.6	37.6
62.5°	25.5	33.1	34.6
65°	23.5	30.1	32.1
67.5°	20.5	26.5	28.5
70°	18.0	23.0	25.0
72.5°	15.5	19.5	21.5
75°	13.0	16.0	17.5
77.5°	10.0	13.0	14.0
80°	8.0	10.0	11.0
82.5°	5.5	7.0	7.5
85°	3.5	4.5	5.0
87.5°	1.5	2.0	2.0
90°	0.0	0.0	0.0

(END OF REPORT)