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: P1315104

Luminaire Tested: P3SQAS05R659740DE010 E3SQCA451MB

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1315104
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	P3SQAS05R659740DE010 E3SQCA451MB
Description:	3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	484.0 lumens
Efficiency:	N/A
Efficacy:	67.2 lumens/watt
Spacing Criteria (0/90/45):	3.28 / 0.89 / 2.04
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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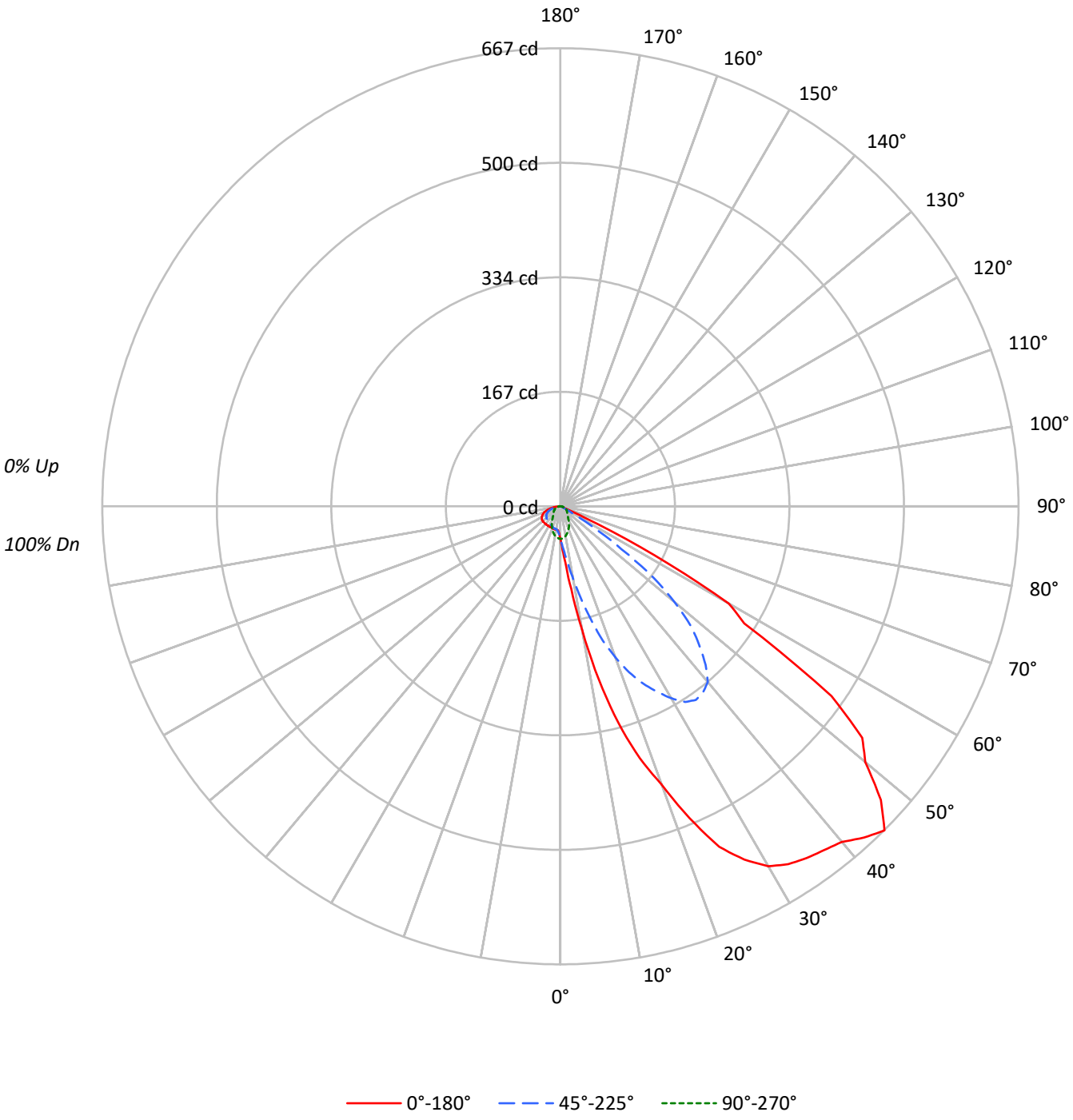
Luminous Intensity Polar Plot



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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	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8112	8112	8112	8112	8112
5°	14176	11583	7970	6466	6206
10°	32073	18677	7642	5946	6033
15°	58321	30025	7096	5973	6151
20°	79065	42868	6396	5956	6231
25°	103926	54139	5625	5815	6366
30°	120353	64174	4832	5787	6662
35°	131424	72345	4079	5908	7043
40°	143368	75068	3597	6228	7531
45°	162527	69609	3434	6625	8159
50°	155239	58114	3376	7020	8976
55°	144696	32638	3483	7567	9909
60°	97444	7027	3513	8026	10712
65°	15037	1793	3342	8313	11655
70°	1712	1712	3172	8560	12438
75°	1597	1597	2928	8384	12576
80°	1488	1884	2876	7736	12497
85°	988	1976	2964	7707	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 162527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	1.2
10°-20°	30.8	6.4
20°-30°	72.3	14.9
30°-40°	109.2	22.6
40°-50°	125.6	25.9
50°-60°	99.7	20.6
60°-70°	29.9	6.2
70°-80°	8.1	1.7
80°-90°	2.7	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°	108.8	22.5
0°-40°	218.0	45.0
0°-60°	443.3	91.6
0°-90°	484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	484.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	82	67	46	37	36	11
15°	327	168	40	34	34	94
25°	547	285	30	31	34	250
35°	625	344	19	28	34	392
45°	667	286	14	27	34	496
55°	482	109	12	25	33	397
65°	37	4	8	20	29	83
75°	2	2	4	13	19	3
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	59.7	60.2	59.7	59.7	59.2	58.7	55.3	51.4	47.1	43.7	41.2
5°	82.0	82.5	81.0	81.0	80.1	78.6	67.0	55.8	46.1	40.8	37.4
7.5°	121.3	123.3	120.8	117.9	112.6	111.6	83.5	60.2	45.1	37.9	34.9
10°	183.4	182.0	179.6	173.7	164.5	160.1	106.8	64.5	43.7	35.9	34.0
12.5°	258.7	254.8	251.9	241.2	228.6	221.3	135.9	68.4	41.7	34.0	33.5
15°	327.1	324.2	317.4	307.2	291.7	285.8	168.4	70.9	39.8	32.5	33.5
17.5°	384.8	381.9	378.0	367.8	351.8	343.1	204.8	72.3	37.4	31.5	33.0
20°	431.4	429.5	424.1	415.9	399.9	391.6	233.9	72.3	34.9	30.6	32.5
22.5°	491.6	487.2	480.4	468.3	448.4	435.8	261.6	70.9	32.5	29.6	31.5
25°	546.9	544.0	535.3	520.7	499.4	486.7	284.9	67.9	29.6	28.1	30.6
27.5°	579.9	578.0	569.7	554.7	530.9	521.2	304.3	63.6	26.7	26.7	30.1
30°	605.2	601.3	593.0	578.5	554.2	542.6	322.7	58.2	24.3	25.2	29.1
32.5°	617.8	616.3	609.0	596.4	572.6	559.5	337.8	51.4	21.4	24.3	28.6
35°	625.1	623.6	617.8	605.6	583.3	570.7	344.1	45.1	19.4	23.3	28.1
37.5°	630.9	629.4	622.1	610.0	587.7	574.6	341.2	38.3	17.5	22.3	27.7
40°	637.7	632.3	621.2	609.0	588.7	576.0	333.9	32.0	16.0	21.8	27.7
42.5°	654.2	635.7	618.3	607.1	587.7	573.1	313.0	25.2	14.6	20.9	27.2
45°	667.3	634.8	612.4	603.7	583.8	567.3	285.8	18.4	14.1	20.4	27.2
47.5°	632.8	612.9	602.7	597.9	576.5	558.6	257.7	12.6	13.6	19.9	26.7
50°	579.4	577.0	573.1	573.6	554.2	539.6	216.9	8.7	12.6	19.4	26.2
52.5°	553.7	550.8	544.0	539.2	519.7	507.1	171.8	6.8	12.1	18.9	25.7
55°	481.9	483.8	476.6	479.5	473.6	467.3	108.7	6.3	11.6	18.0	25.2
57.5°	317.4	327.1	344.1	364.5	382.9	395.5	58.7	6.3	10.7	17.5	24.3
60°	282.9	280.5	280.0	283.9	292.1	298.9	20.4	5.8	10.2	16.0	23.3
62.5°	154.8	153.8	168.4	193.1	207.7	209.2	5.8	5.8	9.2	15.0	21.8
65°	36.9	38.3	42.7	53.4	63.1	69.4	4.4	5.3	8.2	14.1	20.4
67.5°	5.8	6.3	6.3	7.8	8.7	8.7	3.9	4.9	7.3	12.6	18.9
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.4	6.3	11.2	17.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.4	3.9	5.3	9.7	14.6
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.4	4.4	7.8	12.6
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.9	6.3	10.2
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.4	2.9	4.9	7.8
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.9	2.4	3.9	5.8
85°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.4	3.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	1.9
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):

	157.5°	180°
0°	47.1	47.1
2.5°	39.8	39.3
5°	35.9	35.9
7.5°	34.5	34.5
10°	34.0	34.5
12.5°	34.0	34.5
15°	34.0	34.5
17.5°	34.0	34.5
20°	33.5	34.0
22.5°	33.0	33.5
25°	32.5	33.5
27.5°	32.0	33.5
30°	32.0	33.5
32.5°	32.0	33.5
35°	31.5	33.5
37.5°	31.5	33.5
40°	31.5	33.5
42.5°	31.5	33.5
45°	*31.5*	*33.5*
47.5°	31.5	33.5
50°	31.5	33.5
52.5°	31.1	33.5
55°	31.1	33.0
57.5°	30.1	32.0
60°	29.1	31.1
62.5°	28.1	30.1
65°	26.7	28.6
67.5°	25.2	26.7
70°	22.8	24.7
72.5°	20.4	21.8
75°	17.5	18.9
77.5°	14.6	16.0
80°	11.6	12.6
82.5°	8.2	9.2
85°	5.3	5.8
87.5°	2.4	2.4
90°	0.0	0.0

(END OF REPORT)