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: P1305808

Luminaire Tested: P3SQAS09R559024DE010 E3SQCA451MB

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1305808
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	P3SQAS09R559024DE010 E3SQCA451MB
Description:	3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	731.0 lumens
Efficiency:	N/A
Efficacy:	65.9 lumens/watt
Spacing Criteria (0/90/45):	3.76 / 0.91 / 1.95
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

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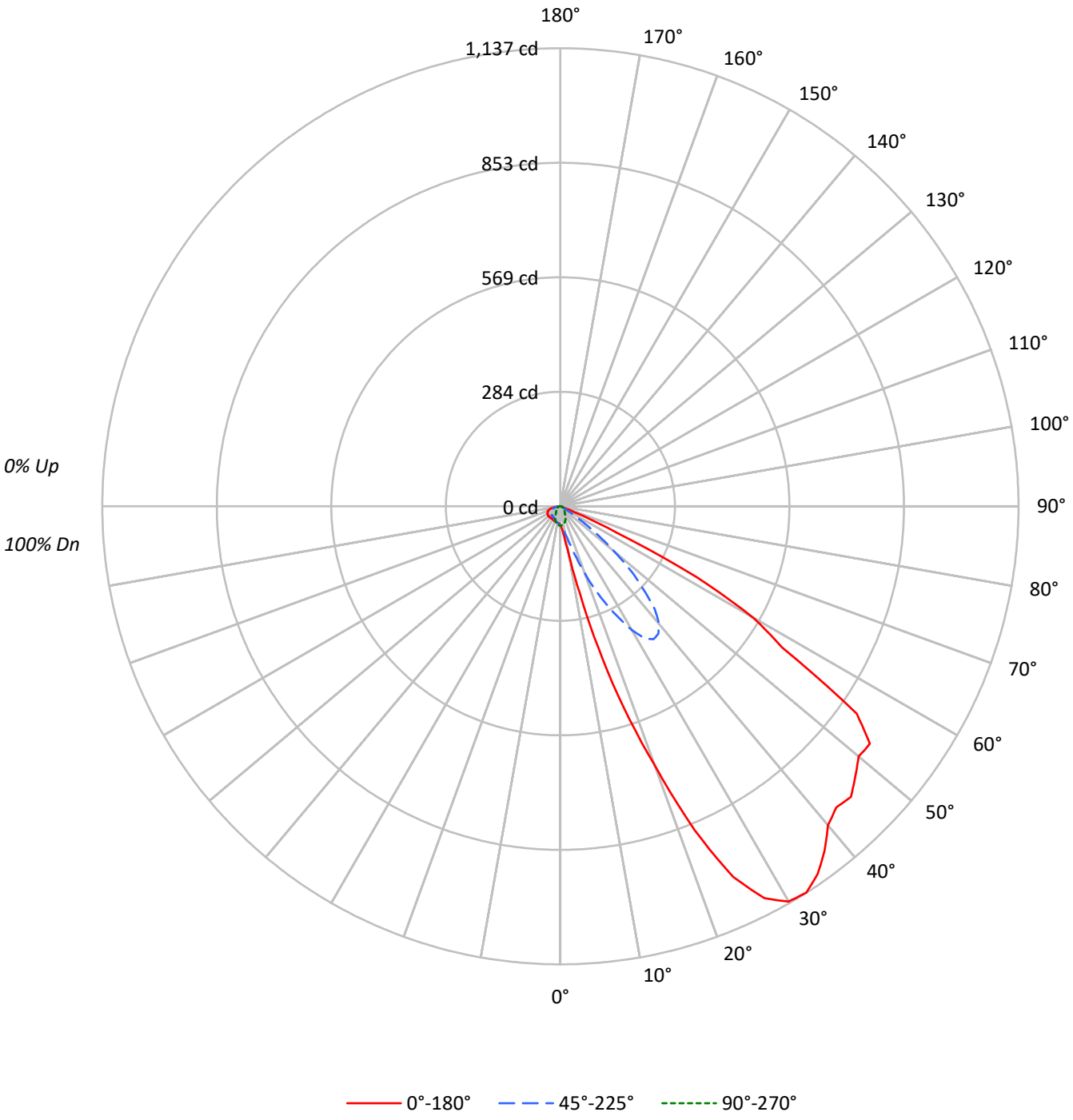
Luminous Intensity Polar Plot



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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	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8112	8112	8112	8112	8112
5°	10390	9491	8143	7589	7365
10°	21125	12084	7905	7223	7223
15°	64829	18543	7364	7025	7257
20°	125360	32440	6635	6873	7221
25°	192934	50452	5777	6632	7240
30°	225295	70518	4753	6543	7457
35°	234108	84729	3932	6518	7737
40°	232330	85522	3620	6835	8431
45°	248382	70778	3459	7404	9133
50°	258875	46727	3456	7958	10208
55°	269574	20358	3483	8738	11260
60°	190444	4684	3548	9576	12676
65°	62105	1589	3423	10269	14222
70°	1964	1611	3575	11078	16265
75°	1730	1730	2994	11578	18033
80°	1289	1884	3174	11505	19241
85°	1186	2569	3754	11461	19168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 52.5°
Luminance: 273910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.7
10°-20°	31.0	4.2
20°-30°	104.0	14.2
30°-40°	170.9	23.4
40°-50°	190.6	26.1
50°-60°	160.4	21.9
60°-70°	54.4	7.4
70°-80°	10.6	1.5
80°-90°	4.0	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°	140.1	19.2
0°-40°	311.0	42.5
0°-60°	662.0	90.6
0°-90°	731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	60	55	47	44	43	7
15°	364	104	41	39	41	115
25°	1015	266	30	35	38	456
35°	1114	403	19	31	37	691
45°	1020	291	14	30	38	779
55°	898	68	12	29	38	731
65°	152	4	8	25	35	206
75°	3	3	4	17	27	3
85°	1	1	2	6	10	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°	51.7	51.7	51.7	51.7	51.7	51.7	51.0	49.1	47.8	45.9	45.2
5°	60.1	60.1	60.1	59.4	59.4	58.1	54.9	50.4	47.1	44.6	43.9
7.5°	77.5	76.9	75.6	74.9	73.0	72.3	60.7	51.7	46.5	43.3	42.6
10°	120.8	119.5	117.6	110.4	104.0	99.5	69.1	52.3	45.2	42.0	41.3
12.5°	217.7	215.1	205.4	190.5	172.5	163.4	82.7	53.0	43.3	40.7	40.7
15°	363.6	360.4	342.3	321.6	288.7	270.6	104.0	52.3	41.3	38.8	39.4
17.5°	525.1	516.1	497.3	470.2	425.6	404.3	135.6	51.0	38.8	37.5	38.8
20°	684.0	681.4	650.4	613.6	558.7	530.3	177.0	49.1	36.2	35.5	37.5
22.5°	870.0	859.0	826.1	786.7	711.1	673.7	221.5	46.5	33.6	33.6	36.2
25°	1015.3	1002.4	976.6	930.7	859.0	819.0	265.5	43.3	30.4	31.6	34.9
27.5°	1096.7	1081.9	1062.5	1023.1	967.5	932.0	309.4	39.4	27.1	29.7	33.6
30°	1132.9	1129.0	1114.8	1085.7	1034.7	1003.1	354.6	34.9	23.9	27.8	32.9
32.5°	1136.8	1138.7	1132.9	1114.1	1075.4	1048.3	388.2	31.0	21.3	26.5	31.6
35°	1113.5	1120.6	1124.5	1116.7	1091.5	1069.6	403.0	26.5	18.7	25.2	31.0
37.5°	1077.3	1090.2	1103.2	1105.1	1089.6	1075.4	399.2	22.6	17.4	24.5	31.0
40°	1033.4	1045.0	1071.5	1088.3	1083.1	1072.8	380.4	18.7	16.1	23.3	30.4
42.5°	1013.4	1016.0	1044.4	1072.8	1071.5	1063.1	347.5	14.9	14.9	23.3	30.4
45°	1019.8	1008.2	1027.0	1059.9	1058.0	1047.0	290.6	11.6	14.2	22.6	30.4
47.5°	992.7	976.6	1008.2	1047.0	1039.9	1023.7	240.3	8.4	13.6	22.0	29.7
50°	966.2	963.7	988.2	1007.6	997.9	988.8	174.4	6.5	12.9	21.3	29.7
52.5°	968.2	963.7	966.2	965.6	946.2	936.5	119.5	5.2	12.3	20.7	29.7
55°	897.8	883.6	870.0	873.9	875.2	868.7	67.8	4.5	11.6	20.7	29.1
57.5°	652.3	648.5	663.3	705.3	738.2	742.1	32.9	4.5	11.0	20.0	28.4
60°	552.9	550.3	550.9	563.2	580.6	569.7	13.6	4.5	10.3	19.4	27.8
62.5°	381.1	406.3	416.6	445.0	433.4	417.9	5.2	5.2	9.7	18.1	27.1
65°	152.4	151.8	166.0	179.6	175.7	164.1	3.9	4.5	8.4	16.8	25.2
67.5°	35.5	32.3	27.8	23.9	20.0	16.1	3.9	4.5	7.8	15.5	23.9
70°	3.9	3.9	3.9	3.9	3.9	3.2	3.2	4.5	7.1	14.2	22.0
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.9	5.8	12.3	20.0
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	4.5	10.3	17.4
77.5°	1.9	1.9	1.9	2.6	1.9	2.6	2.6	3.2	3.9	8.4	14.9
80°	1.3	1.3	1.9	1.9	1.9	1.9	1.9	2.6	3.2	7.1	11.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.6	5.2	8.4
85°	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9	1.9	3.9	5.8
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9	1.9	2.6
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°	44.6	44.6
5°	43.3	42.6
7.5°	42.0	42.0
10°	41.3	41.3
12.5°	40.7	41.3
15°	40.7	40.7
17.5°	39.4	40.0
20°	38.8	39.4
22.5°	38.1	38.8
25°	37.5	38.1
27.5°	36.8	37.5
30°	36.2	37.5
32.5°	*35.5*	*36.8*
35°	35.5	36.8
37.5°	35.5	37.5
40°	35.5	37.5
42.5°	35.5	37.5
45°	35.5	37.5
47.5°	35.5	37.5
50°	35.5	38.1
52.5°	35.5	38.1
55°	35.5	37.5
57.5°	34.9	37.5
60°	34.9	36.8
62.5°	34.2	36.2
65°	32.9	34.9
67.5°	31.6	34.2
70°	29.7	32.3
72.5°	27.8	29.7
75°	25.2	27.1
77.5°	22.0	23.3
80°	17.4	19.4
82.5°	13.6	14.9
85°	9.0	9.7
87.5°	3.9	4.5
90°	0.0	0.0

(END OF REPORT)