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: P1306781

Luminaire Tested: P3SQAS09R559027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1306781
	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:	P3SQAS09R559027DE010 E3SQCA451MMS
Description:	3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	773.0 lumens
Efficiency:	N/A
Efficacy:	69.6 lumens/watt
Spacing Criteria (0/90/45):	3.76 / 0.9 / 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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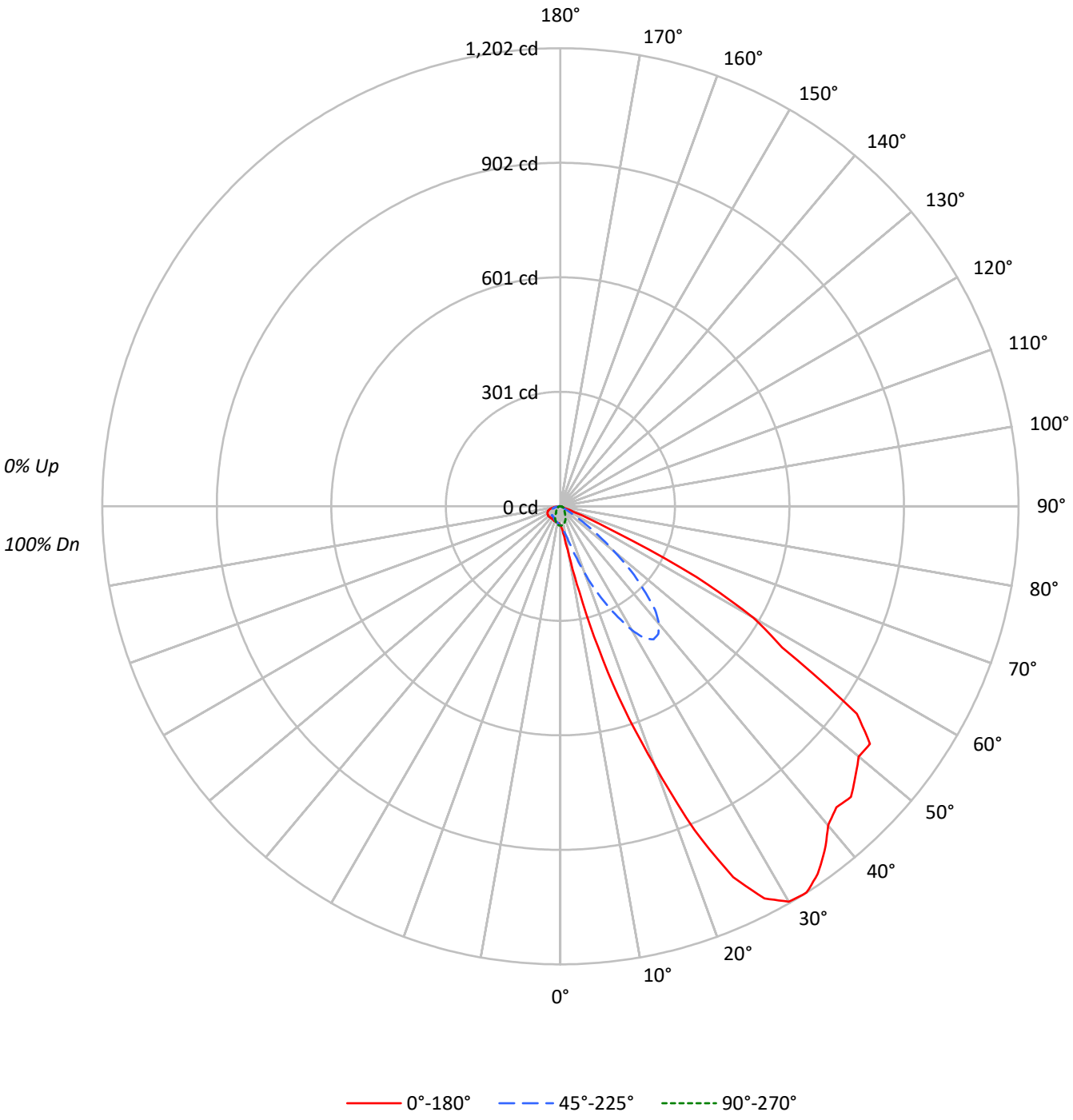
Luminous Intensity Polar Plot



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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°	8594	8594	8594	8594	8594
5°	10978	10044	8627	8022	7797
10°	22332	12784	8359	7642	7642
15°	68556	19613	7792	7435	7667
20°	132563	34291	7001	7258	7643
25°	204032	53340	6100	7012	7658
30°	238241	74575	5031	6921	7875
35°	247564	89606	4163	6896	8179
40°	245684	90445	3844	7217	8903
45°	262655	74846	3653	7818	9645
50°	273772	49406	3671	8413	10798
55°	285068	21529	3693	9218	11890
60°	201363	4926	3754	10127	13399
65°	65691	1671	3627	10840	15037
70°	2065	1712	3777	11682	17171
75°	1797	1797	3194	12244	19097
80°	1389	1984	3372	12199	20332
85°	1383	2766	3952	12054	20156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 52.5°
Luminance: 289640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.7
10°-20°	32.8	4.2
20°-30°	110.0	14.2
30°-40°	180.7	23.4
40°-50°	201.5	26.1
50°-60°	169.6	21.9
60°-70°	57.5	7.4
70°-80°	11.2	1.5
80°-90°	4.2	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°	148.1	19.2
0°-40°	328.8	42.5
0°-60°	700.0	90.6
0°-90°	773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	773.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	64	58	50	46	45	8
15°	384	110	44	42	43	122
25°	1074	281	32	37	40	483
35°	1178	426	20	33	39	731
45°	1078	307	15	32	40	824
55°	949	72	12	31	40	773
65°	161	4	9	27	37	218
75°	3	3	5	18	29	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°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
2.5°	54.6	54.6	54.6	54.6	54.6	54.6	54.0	51.9	50.5	48.5	47.8
5°	63.5	63.5	63.5	62.8	62.8	61.5	58.1	53.3	49.9	47.1	46.4
7.5°	82.0	81.3	79.9	79.2	77.2	76.5	64.2	54.6	49.2	45.8	45.1
10°	127.7	126.4	124.3	116.8	110.0	105.2	73.1	55.3	47.8	44.4	43.7
12.5°	230.2	227.4	217.2	201.5	182.4	172.8	87.4	56.0	45.8	43.0	43.0
15°	384.5	381.1	362.0	340.1	305.3	286.2	110.0	55.3	43.7	41.0	41.7
17.5°	555.3	545.7	525.9	497.2	450.1	427.6	143.4	54.0	41.0	39.6	41.0
20°	723.3	720.6	687.8	648.8	590.8	560.7	187.1	51.9	38.2	37.6	39.6
22.5°	920.0	908.4	873.5	831.9	752.0	712.4	234.3	49.2	35.5	35.5	38.2
25°	1073.7	1060.0	1032.7	984.2	908.4	866.0	280.7	45.8	32.1	33.5	36.9
27.5°	1159.7	1144.0	1123.5	1081.9	1023.1	985.6	327.2	41.7	28.7	31.4	35.5
30°	1198.0	1193.9	1178.8	1148.1	1094.2	1060.7	375.0	36.9	25.3	29.4	34.8
32.5°	1202.1	1204.1	1198.0	1178.2	1137.2	1108.5	410.5	32.8	22.5	28.0	33.5
35°	1177.5	1185.0	1189.1	1180.9	1154.3	1131.0	426.2	28.0	19.8	26.6	32.8
37.5°	1139.2	1152.9	1166.5	1168.6	1152.2	1137.2	422.1	23.9	18.4	26.0	32.8
40°	1092.8	1105.1	1133.1	1150.8	1145.4	1134.4	402.3	19.8	17.1	24.6	32.1
42.5°	1071.6	1074.3	1104.4	1134.4	1133.1	1124.2	367.4	15.7	15.7	24.6	32.1
45°	1078.4	1066.2	1086.0	1120.8	1118.7	1107.1	307.3	12.3	15.0	23.9	32.1
47.5°	1049.8	1032.7	1066.2	1107.1	1099.6	1082.5	254.1	8.9	14.3	23.2	31.4
50°	1021.8	1019.0	1045.0	1065.5	1055.2	1045.7	184.4	6.8	13.7	22.5	31.4
52.5°	1023.8	1019.0	1021.8	1021.1	1000.6	990.3	126.4	5.5	13.0	21.9	31.4
55°	949.4	934.3	920.0	924.1	925.5	918.6	71.7	4.8	12.3	21.9	30.7
57.5°	689.8	685.7	701.4	745.8	780.7	784.8	34.8	4.8	11.6	21.2	30.1
60°	584.6	581.9	582.6	595.6	614.0	602.4	14.3	4.8	10.9	20.5	29.4
62.5°	403.0	429.6	440.5	470.6	458.3	441.9	5.5	5.5	10.2	19.1	28.7
65°	161.2	160.5	175.5	189.9	185.8	173.5	4.1	4.8	8.9	17.8	26.6
67.5°	37.6	34.1	29.4	25.3	21.2	17.1	4.1	4.8	8.2	16.4	25.3
70°	4.1	4.1	4.1	4.1	4.1	3.4	3.4	4.8	7.5	15.0	23.2
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	6.1	13.0	21.2
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.8	10.9	18.4
77.5°	2.0	2.0	2.0	2.7	2.0	2.7	2.7	3.4	4.1	8.9	15.7
80°	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.7	3.4	7.5	12.3
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	5.5	8.9
85°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0	2.0	4.1	6.1
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0	2.0	2.7
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°	49.9	49.9
2.5°	47.1	47.1
5°	45.8	45.1
7.5°	44.4	44.4
10°	43.7	43.7
12.5°	43.0	43.7
15°	43.0	43.0
17.5°	41.7	42.3
20°	41.0	41.7
22.5°	40.3	41.0
25°	39.6	40.3
27.5°	38.9	39.6
30°	38.2	39.6
32.5°	*37.6*	*38.9*
35°	37.6	38.9
37.5°	37.6	39.6
40°	37.6	39.6
42.5°	37.6	39.6
45°	37.6	39.6
47.5°	37.6	39.6
50°	37.6	40.3
52.5°	37.6	40.3
55°	37.6	39.6
57.5°	36.9	39.6
60°	36.9	38.9
62.5°	36.2	38.2
65°	34.8	36.9
67.5°	33.5	36.2
70°	31.4	34.1
72.5°	29.4	31.4
75°	26.6	28.7
77.5°	23.2	24.6
80°	18.4	20.5
82.5°	14.3	15.7
85°	9.6	10.2
87.5°	4.1	4.8
90°	0.0	0.0

(END OF REPORT)