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: P1316470

Luminaire Tested: P3SQAS17R709827DE010 E3SQCA451MW

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1316470
	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:	P3SQAS17R709827DE010 E3SQCA451MW
Description:	3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1097.0 lumens
Efficiency:	N/A
Efficacy:	53.8 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):	20.4
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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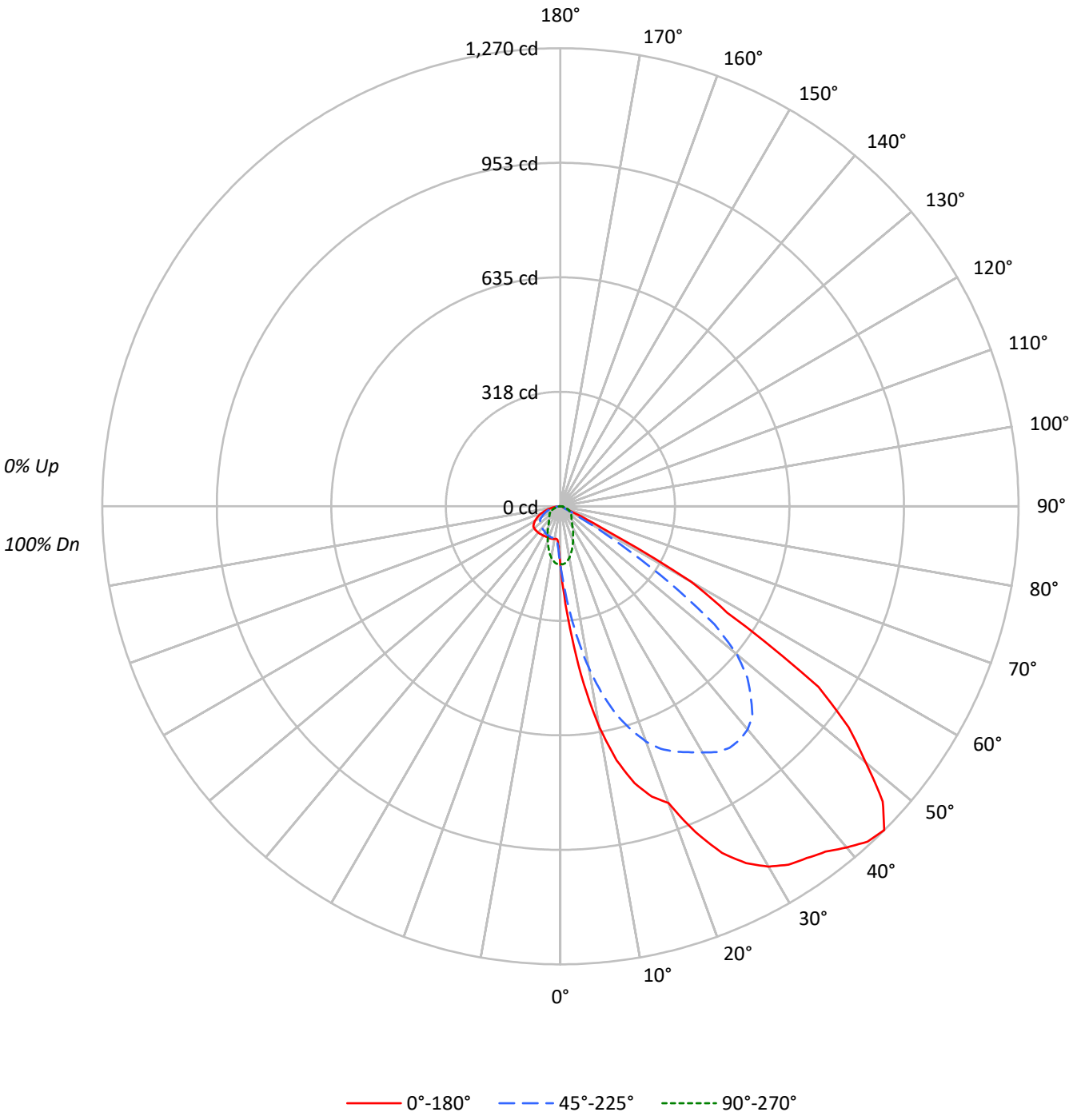
Luminous Intensity Polar Plot



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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	54	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°	27521	27521	27521	27521	27521
5°	62635	50135	27246	17219	16078
10°	108530	79623	25270	15687	16071
15°	141676	106355	22055	15993	16582
20°	160476	127175	18859	16257	17246
25°	201523	142672	15810	16437	17672
30°	229411	156706	13503	16764	18713
35°	250360	171896	11732	17030	19784
40°	277564	181588	10836	17716	21403
45°	309223	181793	10668	18657	23187
50°	296171	170967	10556	19639	25212
55°	262248	110736	10839	20718	27264
60°	143634	23767	10919	21114	28279
65°	10269	5787	10718	20946	28526
70°	4985	5489	9920	19840	27544
75°	4392	5856	9449	18964	25485
80°	4364	5455	8728	17356	23902
85°	4347	6521	8695	15215	21539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 309223 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	1.9
10°-20°	89.1	8.1
20°-30°	171.0	15.6
30°-40°	241.9	22.0
40°-50°	273.6	24.9
50°-60°	216.7	19.8
60°-70°	58.4	5.3
70°-80°	19.4	1.8
80°-90°	5.9	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°	281.0	25.6
0°-40°	522.9	47.7
0°-60°	1013.2	92.4
0°-90°	1097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	160	160	160	160	160	
5°	362	290	158	100	93	43
15°	795	596	124	90	93	224
25°	1060	751	83	86	93	486
35°	1191	818	56	81	94	750
45°	1270	746	44	77	95	950
55°	873	369	36	69	91	709
65°	25	14	26	51	70	91
75°	7	9	14	28	38	7
85°	2	3	4	8	11	2
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°	*159.8*	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8
2.5°	*248.4*	248.4	247.4	243.0	240.8	235.3	230.9	218.9	189.3	160.9	137.9
5°	*362.3*	367.7	360.1	359.0	352.4	342.6	336.0	290.0	218.9	157.6	118.2
7.5°	*496.9*	499.1	496.9	485.9	476.1	459.7	444.4	372.1	248.4	152.1	104.0
10°	*620.6*	617.3	610.7	603.1	588.8	571.3	545.1	455.3	276.9	144.5	95.2
12.5°	*721.3*	720.2	712.5	704.8	687.3	664.3	638.1	530.8	301.0	134.6	90.8
15°	*794.6*	794.6	786.9	778.2	761.8	743.2	713.6	596.5	320.7	123.7	86.5
17.5°	*843.8*	841.7	836.2	829.6	816.5	797.9	774.9	649.0	333.8	112.7	85.4
20°	*875.6*	874.5	870.1	860.3	849.3	835.1	814.3	693.9	339.3	102.9	84.3
22.5°	*977.4*	968.6	952.2	931.4	905.1	871.2	842.7	727.8	337.1	91.9	82.1
25°	*1060.5*	1057.3	1039.8	1014.6	979.6	935.8	888.7	750.8	326.2	83.2	79.9
27.5°	*1115.3*	1109.8	1093.4	1066.0	1028.8	986.1	942.3	768.3	310.8	75.5	76.6
30°	*1153.6*	1150.3	1133.9	1103.2	1064.9	1017.9	973.0	788.0	290.0	67.9	73.3
32.5°	*1177.7*	1174.4	1158.0	1130.6	1093.4	1044.1	992.7	807.7	264.9	61.3	70.0
35°	*1190.8*	1187.5	1168.9	1144.8	1109.8	1061.6	1006.9	817.6	234.2	55.8	66.8
37.5°	*1207.2*	1200.6	1175.5	1145.9	1110.9	1066.0	1011.3	816.5	203.6	51.4	64.6
40°	*1234.6*	1217.1	1180.9	1141.5	1105.4	1060.5	1008.0	807.7	169.6	48.2	62.4
42.5°	*1260.8*	1235.7	1182.0	1135.0	1094.5	1050.7	996.0	788.0	132.4	46.0	61.3
45°	*1269.6*	*1232.4*	*1166.7*	*1119.7*	*1081.3*	*1036.5*	*979.6*	*746.4*	*89.7*	*43.8*	*59.1*
47.5°	*1211.6*	1184.2	1129.5	1094.5	1058.4	1014.6	955.5	702.7	51.4	41.6	56.9
50°	*1105.4*	1087.9	1057.3	1035.4	1015.7	985.0	927.0	638.1	30.6	39.4	54.7
52.5°	*1006.9*	1001.4	979.6	962.0	951.1	936.9	884.3	538.5	25.2	38.3	52.5
55°	*873.4*	855.9	850.4	843.8	866.8	865.7	794.6	368.8	24.1	36.1	50.3
57.5°	*548.3*	556.0	584.5	637.0	699.4	735.5	733.3	197.0	23.0	33.9	47.1
60°	*417.0*	415.9	424.7	446.5	492.5	544.0	592.1	69.0	21.9	31.7	44.9
62.5°	*124.8*	128.1	154.3	226.6	271.4	334.9	305.4	16.4	20.8	28.5	40.5
65°	*25.2*	26.3	26.3	29.6	36.1	54.7	66.8	14.2	19.7	26.3	37.2
67.5°	*10.9*	10.9	10.9	12.0	12.0	14.2	12.0	13.1	17.5	23.0	32.8
70°	*9.9*	9.9	9.9	9.9	9.9	9.9	10.9	10.9	15.3	19.7	28.5
72.5°	*7.7*	7.7	7.7	8.8	8.8	8.8	8.8	9.9	13.1	16.4	24.1
75°	*6.6*	6.6	6.6	6.6	7.7	7.7	7.7	8.8	10.9	14.2	19.7
77.5°	*5.5*	5.5	5.5	5.5	5.5	6.6	6.6	6.6	8.8	10.9	16.4
80°	*4.4*	4.4	4.4	4.4	4.4	4.4	4.4	5.5	6.6	8.8	12.0
82.5°	*3.3*	3.3	3.3	3.3	3.3	3.3	3.3	4.4	5.5	6.6	8.8
85°	*2.2*	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.4	5.5
87.5°	*1.1*	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.3
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°	159.8	159.8	159.8
2.5°	121.5	114.9	111.6
5°	99.6	94.1	93.0
7.5°	91.9	90.8	90.8
10°	89.7	90.8	91.9
12.5°	89.7	91.9	93.0
15°	89.7	91.9	93.0
17.5°	89.7	91.9	93.0
20°	88.7	91.9	94.1
22.5°	87.6	91.9	93.0
25°	86.5	91.9	93.0
27.5°	85.4	90.8	93.0
30°	84.3	90.8	94.1
32.5°	82.1	90.8	94.1
35°	81.0	90.8	94.1
37.5°	79.9	90.8	95.2
40°	78.8	90.8	95.2
42.5°	77.7	90.8	95.2
45°	*76.6*	*89.7*	*95.2*
47.5°	74.4	89.7	95.2
50°	73.3	88.7	94.1
52.5°	71.1	87.6	94.1
55°	69.0	85.4	90.8
57.5°	65.7	82.1	86.5
60°	61.3	77.7	82.1
62.5°	55.8	72.2	75.5
65°	51.4	65.7	70.0
67.5°	44.9	58.0	62.4
70°	39.4	50.3	54.7
72.5°	33.9	42.7	47.1
75°	28.5	35.0	38.3
77.5°	21.9	28.5	30.6
80°	17.5	21.9	24.1
82.5°	12.0	15.3	16.4
85°	7.7	9.9	10.9
87.5°	3.3	4.4	4.4
90°	0.0	0.0	0.0

(END OF REPORT)