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: P1308840

Luminaire Tested: P3SQAS05R459035DE010 E3SQCA301MW

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1308840
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	P3SQAS05R459035DE010 E3SQCA301MW
Description:	3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	616.0 lumens
Efficiency:	N/A
Efficacy:	85.6 lumens/watt
Spacing Criteria (0/90/45):	2.13 / 0.47 / 1.22
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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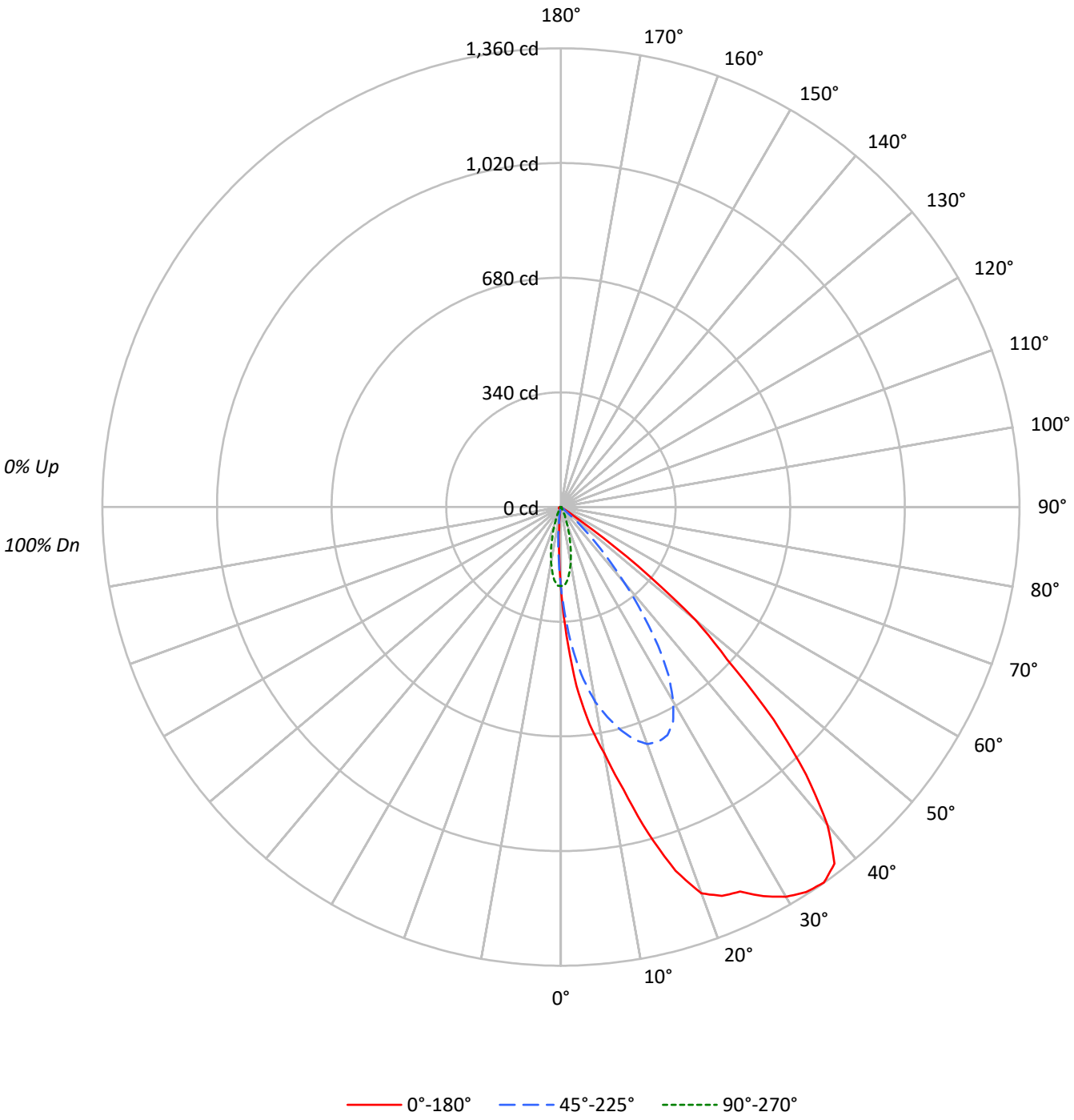
Luminous Intensity Polar Plot



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	40369	40369	40369	40369	40369
5°	92007	74633	37757	15144	10338
10°	129638	102532	29187	3340	1539
15°	178655	121974	18650	1105	927
20°	223395	136998	9732	751	751
25°	239054	141855	4504	589	684
30°	265346	132464	2048	616	716
35°	285828	105606	652	652	862
40°	276574	65445	337	809	1034
45°	217206	30859	365	999	1267
50°	139538	3590	563	1232	1661
55°	21198	300	631	1561	2012
60°	344	344	723	1791	2136
65°	408	408	856	1875	2527
70°	504	504	1057	2065	2870
75°	333	665	1397	2396	3061
80°	496	992	1488	2579	3570
85°	0	988	1976	2964	2964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 217206 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	4.2
10°-20°	92.7	15.1
20°-30°	162.9	26.5
30°-40°	185.0	30.0
40°-50°	119.8	19.5
50°-60°	23.5	3.8
60°-70°	2.8	0.5
70°-80°	2.4	0.4
80°-90°	1.1	0.2
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°	281.3	45.7
0°-40°	466.4	75.7
0°-60°	609.7	99.0
0°-90°	616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	234	234	234	234	234	
5°	532	432	218	88	60	57
15°	1002	684	105	6	5	289
25°	1258	746	24	3	4	590
35°	1360	502	3	3	4	836
45°	892	127	2	4	5	672
55°	71	1	2	5	7	135
65°	1	1	2	5	6	1
75°	0	1	2	4	5	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	380.7	379.7	381.2	370.9	370.4	362.7	360.6	351.9	340.0	334.3	320.9
5°	532.2	527.0	527.0	514.7	510.5	501.8	486.8	468.3	452.8	431.7	409.0
7.5°	649.1	648.1	648.1	637.3	627.0	614.6	594.5	573.4	548.7	516.2	483.2
10°	741.3	742.9	738.2	728.4	713.5	700.1	676.4	650.7	620.3	586.3	542.5
12.5°	857.8	846.4	842.8	820.7	801.6	775.8	747.5	718.1	680.5	637.8	588.3
15°	1002.0	987.6	973.1	943.8	911.8	872.2	827.9	784.6	736.2	684.1	622.3
17.5°	1130.8	1130.8	1111.7	1065.4	1024.1	965.4	905.7	848.0	790.8	722.3	645.0
20°	1218.9	1214.2	1199.8	1165.8	1118.9	1052.5	974.7	893.8	824.8	747.5	657.9
22.5°	1247.7	1246.7	1247.2	1227.1	1189.5	1120.5	1025.2	929.9	843.3	753.7	651.7
25°	1258.0	1260.1	1265.2	1257.5	1229.2	1160.2	1056.1	946.9	849.0	746.5	628.0
27.5°	1300.8	1296.7	1302.3	1297.2	1265.2	1182.8	1062.3	942.8	836.6	720.2	585.7
30°	1334.3	1333.2	1343.0	1338.4	1296.7	1197.2	1056.6	927.3	806.2	666.1	519.3
32.5°	1353.3	1353.9	1356.4	1337.4	1275.5	1165.8	1028.8	895.9	749.1	595.5	432.7
35°	1359.5	1356.4	1342.0	1295.1	1210.6	1093.2	960.3	821.2	671.3	502.3	342.1
37.5°	1332.7	1316.8	1279.7	1209.6	1111.7	1002.0	872.7	726.9	564.6	396.7	255.0
40°	1230.2	1209.1	1162.2	1090.6	999.4	893.3	760.9	608.4	437.9	291.1	179.3
42.5°	1076.7	1065.9	1016.9	954.6	877.3	770.2	633.7	479.1	324.0	200.9	114.4
45°	891.8	877.8	846.9	791.8	731.0	618.7	491.5	343.1	221.0	126.7	56.7
47.5°	668.7	669.7	648.6	606.9	547.1	453.3	336.4	230.3	138.6	65.4	12.9
50°	520.8	513.6	483.7	441.0	371.4	301.9	217.4	145.3	73.2	13.4	1.0
52.5°	288.5	293.1	277.2	263.2	227.2	180.3	128.3	73.7	15.5	1.5	1.0
55°	70.6	74.7	71.6	73.2	75.7	67.5	52.0	14.4	1.5	1.0	1.0
57.5°	1.5	1.5	1.5	1.5	2.6	3.6	3.6	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	314.3	304.5	286.4	232.9	187.0	150.9	129.3	127.2
5°	388.9	362.7	324.6	218.4	138.1	87.6	63.4	59.8
7.5°	448.2	411.1	352.4	194.7	94.3	44.8	24.7	20.6
10°	497.1	444.6	366.8	166.9	59.2	19.1	10.3	8.8
12.5°	530.6	467.3	369.4	136.0	34.0	9.3	6.7	6.2
15°	552.3	474.5	357.0	104.6	19.1	6.2	5.7	5.2
17.5°	561.0	468.3	333.3	75.7	10.3	4.6	4.6	4.6
20°	556.9	448.2	298.3	53.1	6.7	4.1	4.1	4.1
22.5°	537.3	413.7	254.5	35.5	4.6	3.6	3.6	3.6
25°	498.7	366.8	208.1	23.7	3.1	3.1	3.6	3.6
27.5°	441.0	309.1	159.2	16.0	2.6	3.1	3.6	3.6
30°	368.3	244.7	114.4	10.3	2.6	3.1	3.1	3.6
32.5°	292.6	178.2	75.2	6.2	2.1	3.1	3.6	4.1
35°	*212.2*	*121.6*	*47.9*	*3.1*	*2.6*	*3.1*	*3.6*	*4.1*
37.5°	148.9	79.3	27.8	2.1	2.6	3.1	4.1	4.1
40°	96.9	44.3	10.3	1.5	2.6	3.6	4.1	4.6
42.5°	50.5	15.5	2.1	1.5	2.6	3.6	4.6	5.2
45°	12.9	2.1	0.5	1.5	3.1	4.1	5.2	5.2
47.5°	1.5	0.5	0.5	2.1	3.1	4.6	5.2	5.7
50°	0.5	1.0	1.0	2.1	3.1	4.6	5.7	6.2
52.5°	1.0	1.0	1.0	2.1	3.6	4.6	6.2	6.7
55°	1.0	1.0	1.0	2.1	3.6	5.2	6.2	6.7
57.5°	1.0	1.0	1.0	2.1	3.6	5.2	6.2	6.2
60°	1.0	1.0	1.0	2.1	3.6	5.2	6.2	6.2
62.5°	1.0	1.0	1.5	2.1	3.6	4.6	6.2	6.2
65°	1.0	1.5	1.5	2.1	3.6	4.6	5.7	6.2
67.5°	1.0	1.0	1.5	2.1	3.6	4.6	5.7	6.2
70°	1.0	1.0	1.5	2.1	3.1	4.1	5.2	5.7
72.5°	1.0	1.0	1.5	2.1	3.1	4.1	4.6	5.2
75°	1.0	1.0	1.5	2.1	2.6	3.6	4.6	4.6
77.5°	1.0	1.0	1.5	1.5	2.6	3.1	4.1	4.1
80°	1.0	1.0	1.5	1.5	2.1	2.6	3.1	3.6
82.5°	1.0	1.0	1.0	1.5	1.5	2.1	2.6	2.6
85°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
87.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)