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: P1343065

Luminaire Tested: P3A09R459830DE010 E3CA301MW

Issue Date: 2/13/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1343065
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab:	INNOVATION CENTER
Issue Date:	2/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	P3A09R459830DE010 E3CA301MW
Description:	3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	654.0 lumens
Efficiency:	N/A
Efficacy:	59.5 lumens/watt
Spacing Criteria (0/90/45):	2.13 / 0.47 / 1.22
Luminous Opening:	Circular (Dia: 0.25' x H: 0')
CIE Type:	Direct

Input Watts (W):	11
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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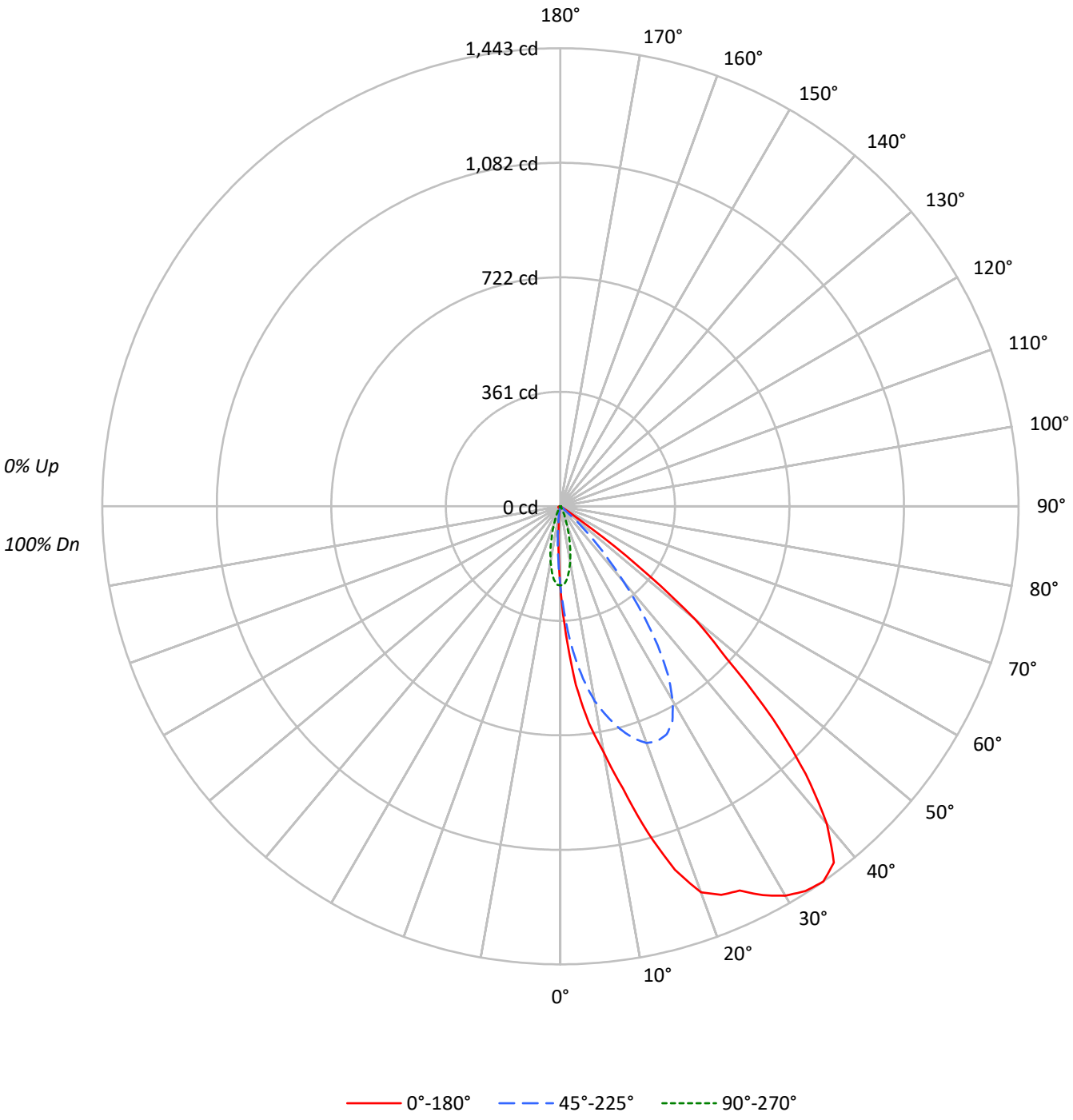
Luminous Intensity Polar Plot



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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°	54579	54579	54579	54579	54579
5°	124367	100880	51045	20471	13955
10°	175258	138586	39456	4498	2071
15°	241500	164882	25199	1498	1249
20°	301983	185189	13138	1027	1027
25°	323148	191745	6097	798	919
30°	358688	179066	2760	836	962
35°	386387	142760	883	883	1178
40°	373872	88451	458	1088	1403
45°	293612	41710	496	1364	1706
50°	188651	4844	751	1672	2252
55°	28635	421	841	2103	2714
60°	482	482	965	2412	2895
65°	571	571	1141	2542	3424
70°	705	705	1410	2821	3847
75°	424	932	1864	3219	4151
80°	631	1389	2020	3410	4799
85°	0	1258	2768	4026	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 293612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	4.2
10°-20°	98.5	15.1
20°-30°	173.0	26.5
30°-40°	196.4	30.0
40°-50°	127.2	19.4
50°-60°	25.0	3.8
60°-70°	3.0	0.5
70°-80°	2.5	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°	298.7	45.7
0°-40°	495.1	75.7
0°-60°	647.3	99.0
0°-90°	654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	249	249	249	249	249	
5°	565	458	232	93	63	60
15°	1064	726	111	7	6	306
25°	1336	792	25	3	4	626
35°	1443	533	3	3	4	887
45°	947	134	2	4	6	714
55°	75	1	2	6	7	143
65°	1	1	2	5	7	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°	*248.9*	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9
2.5°	*404.2*	403.1	404.7	393.8	393.3	385.0	382.9	373.6	361.0	355.0	340.7
5°	*565.0*	559.5	559.5	546.4	542.0	532.7	516.9	497.2	480.8	458.3	434.3
7.5°	*689.2*	688.1	688.1	676.6	665.6	652.5	631.2	608.8	582.5	548.0	513.0
10°	*787.1*	788.7	783.8	773.4	757.5	743.3	718.1	690.8	658.5	622.4	575.9
12.5°	*910.7*	898.6	894.8	871.3	851.0	823.7	793.6	762.4	722.5	677.1	624.6
15°	*1063.8*	1048.5	1033.2	1002.0	968.1	926.0	878.9	833.0	781.6	726.3	660.7
17.5°	*1200.5*	1200.5	1180.3	1131.1	1087.3	1025.0	961.5	900.3	839.6	766.8	684.8
20°	*1294.1*	1289.1	1273.8	1237.7	1188.0	1117.4	1034.8	948.9	875.7	793.6	698.4
22.5°	*1324.7*	1323.6	1324.2	1302.8	1262.9	1189.6	1088.4	987.2	895.3	800.2	691.9
25°	*1335.6*	1337.8	1343.3	1335.1	1305.0	1231.7	1121.2	1005.3	901.4	792.5	666.7
27.5°	*1381.0*	1376.7	1382.7	1377.2	1343.3	1255.8	1127.8	1000.9	888.2	764.6	621.9
30°	*1416.6*	1415.5	1425.9	1421.0	1376.7	1271.1	1121.8	984.5	856.0	707.2	551.3
32.5°	*1436.8*	1437.4	1440.1	1419.9	1354.2	1237.7	1092.2	951.1	795.3	632.3	459.4
35°	*1443.4*	*1440.1*	*1424.8*	*1375.0*	*1285.3*	*1160.6*	*1019.5*	*871.8*	*712.7*	*533.3*	*363.2*
37.5°	*1414.9*	1398.0	1358.6	1284.2	1180.3	1063.8	926.5	771.7	599.5	421.1	270.7
40°	*1306.1*	1283.7	1233.9	1157.9	1061.1	948.4	807.8	645.9	464.9	309.0	190.3
42.5°	*1143.1*	1131.6	1079.7	1013.5	931.4	817.7	672.7	508.7	344.0	213.3	121.4
45°	*946.8*	932.0	899.2	840.7	776.1	656.9	521.8	364.3	234.6	134.5	60.2
47.5°	*709.9*	711.0	688.6	644.3	580.9	481.3	357.2	244.5	147.1	69.5	13.7
50°	*553.0*	545.3	513.6	468.2	394.3	320.5	230.8	154.2	77.7	14.2	1.1
52.5°	*306.3*	311.2	294.3	279.5	241.2	191.4	136.2	78.2	16.4	1.6	1.1
55°	*74.9*	79.3	76.0	77.7	80.4	71.6	55.2	15.3	1.6	1.1	1.1
57.5°	*1.6*	1.6	1.6	1.6	2.7	3.8	3.8	1.1	1.1	1.1	1.1
60°	*1.1*	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	*1.1*	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	*1.1*	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	*1.1*	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	*1.1*	1.1	1.1	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
75°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
77.5°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
80°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
82.5°	*0.0*	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1
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°	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9
2.5°	333.6	323.2	304.1	247.2	198.5	160.3	137.3	135.1
5°	412.9	385.0	344.6	231.9	146.6	93.0	67.3	63.4
7.5°	475.8	436.5	374.1	206.7	100.1	47.6	26.3	21.9
10°	527.8	472.0	389.4	177.2	62.9	20.2	10.9	9.3
12.5°	563.4	496.1	392.2	144.4	36.1	9.8	7.1	6.6
15°	586.3	503.7	379.0	111.0	20.2	6.6	6.0	5.5
17.5°	595.6	497.2	353.9	80.4	10.9	4.9	4.9	4.9
20°	591.2	475.8	316.7	56.3	7.1	4.4	4.4	4.4
22.5°	570.5	439.2	270.2	37.7	4.9	3.8	3.8	3.8
25°	529.4	389.4	221.0	25.2	3.3	3.3	3.8	3.8
27.5°	468.2	328.2	169.0	17.0	2.7	3.3	3.8	3.8
30°	391.1	259.8	121.4	10.9	2.7	3.3	3.3	3.8
32.5°	310.7	189.2	79.9	6.6	2.2	3.3	3.8	4.4
35°	*225.3*	*129.1*	*50.9*	*3.3*	*2.7*	*3.3*	*3.8*	*4.4*
37.5°	158.1	84.2	29.5	2.2	2.7	3.3	4.4	4.4
40°	102.8	47.0	10.9	1.6	2.7	3.8	4.4	4.9
42.5°	53.6	16.4	2.2	1.6	2.7	3.8	4.9	5.5
45°	13.7	2.2	0.5	1.6	3.3	4.4	5.5	5.5
47.5°	1.6	0.5	0.5	2.2	3.3	4.9	5.5	6.0
50°	0.5	1.1	1.1	2.2	3.3	4.9	6.0	6.6
52.5°	1.1	1.1	1.1	2.2	3.8	4.9	6.6	7.1
55°	1.1	1.1	1.1	2.2	3.8	5.5	6.6	7.1
57.5°	1.1	1.1	1.1	2.2	3.8	5.5	6.6	6.6
60°	1.1	1.1	1.1	2.2	3.8	5.5	6.6	6.6
62.5°	1.1	1.1	1.6	2.2	3.8	4.9	6.6	6.6
65°	1.1	1.6	1.6	2.2	3.8	4.9	6.0	6.6
67.5°	1.1	1.1	1.6	2.2	3.8	4.9	6.0	6.6
70°	1.1	1.1	1.6	2.2	3.3	4.4	5.5	6.0
72.5°	1.1	1.1	1.6	2.2	3.3	4.4	4.9	5.5
75°	1.1	1.1	1.6	2.2	2.7	3.8	4.9	4.9
77.5°	1.1	1.1	1.6	1.6	2.7	3.3	4.4	4.4
80°	1.1	1.1	1.6	1.6	2.2	2.7	3.3	3.8
82.5°	1.1	1.1	1.1	1.6	1.6	2.2	2.7	2.7
85°	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)