

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: P1335432

Luminaire Tested: P3A02R359735DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R359735DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

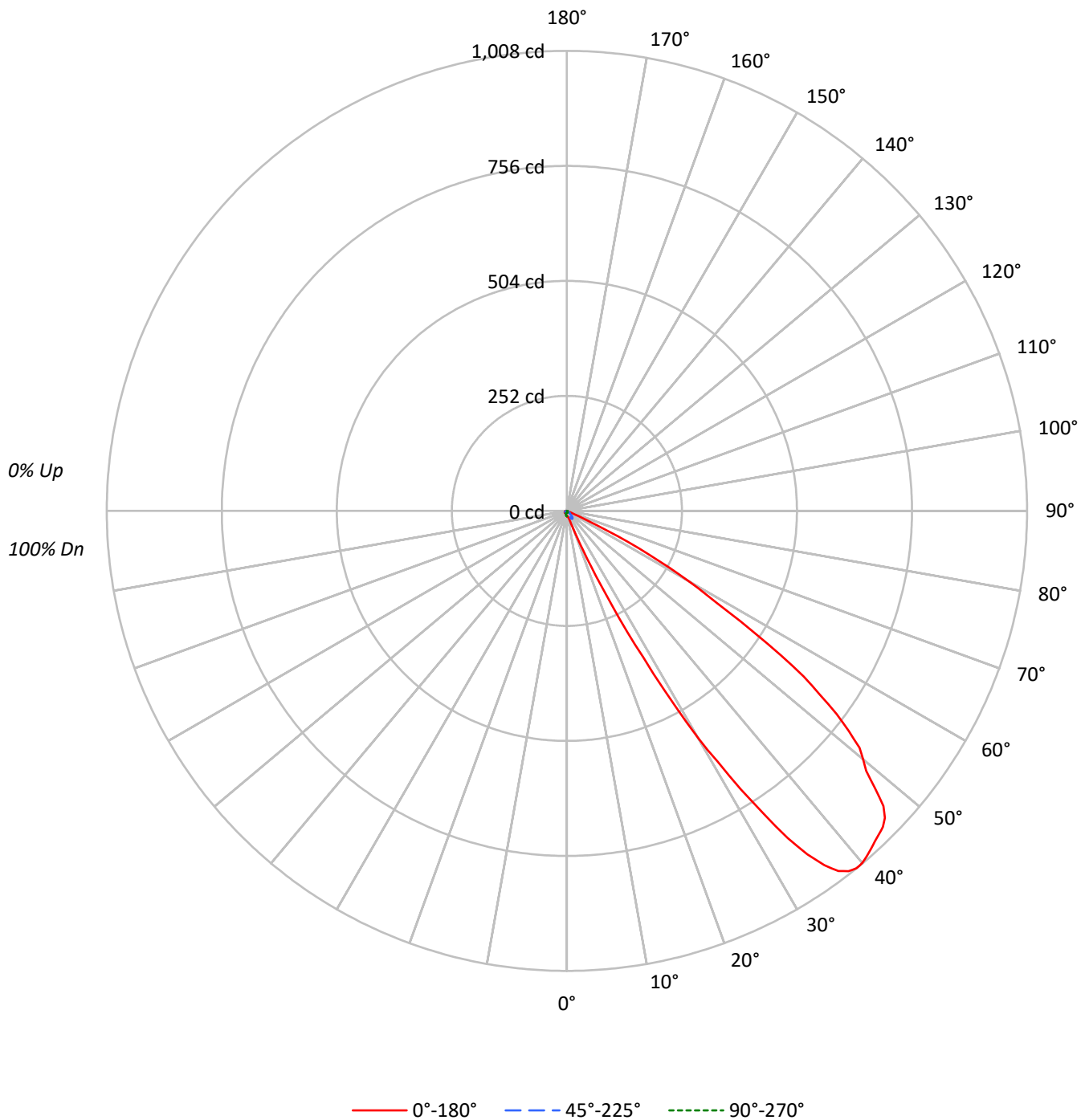
Lumens per Lamp: N/A
Luminaire Lumens: 251.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2544	2544	2544	2544	2544
5°	2751	2685	2487	2245	2201
10°	2872	2627	2227	1915	1915
15°	4109	2565	1793	1657	1703
20°	10314	2754	1423	1423	1587
25°	47858	3508	1089	1307	1476
30°	145491	4760	861	1215	1494
35°	245902	5514	723	1151	1446
40°	288226	5439	573	1174	1546
45°	303535	3876	496	1271	1675
50°	288946	2320	478	1330	1842
55°	242113	956	535	1491	2179
60°	135559	219	614	1710	2368
65°	23401	104	571	1868	2698
70°	449	128	705	2052	3077
75°	424	169	932	2288	3474
80°	253	253	1137	2526	4041
85°	0	503	2264	2768	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 305692 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	3.0	1.2
20°-30°	15.4	6.1
30°-40°	66.5	26.5
40°-50°	94.9	37.8
50°-60°	58.8	23.4
60°-70°	9.0	3.6
70°-80°	1.7	0.7
80°-90°	0.8	0.3
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°	19.4	7.7
0°-40°	85.9	34.2
0°-60°	239.6	95.4
0°-90°	251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	12	12	11	10	10	1
15°	18	11	8	7	8	7
25°	198	14	4	5	6	118
35°	919	21	3	4	5	552
45°	979	12	2	4	5	739
55°	633	2	1	4	6	539
65°	45	0	1	4	5	92
75°	0	0	1	3	4	1
85°	0	0	1	1	2	0
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°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
2.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.6	11.3
5°	12.5	12.5	12.2	12.2	12.2	12.2	12.2	12.2	11.8	11.3	10.6
7.5°	12.7	12.7	12.5	12.5	12.5	12.5	12.2	12.0	11.6	10.6	10.0
10°	12.9	12.9	12.9	12.9	12.7	12.5	12.2	11.8	11.1	10.0	9.3
12.5°	14.5	14.5	14.3	13.8	13.4	12.9	12.5	11.6	10.2	9.1	8.4
15°	18.1	17.9	17.4	16.8	15.9	14.7	13.8	11.3	9.3	7.9	7.5
17.5°	25.4	24.9	24.2	22.0	19.9	17.9	16.1	11.3	8.4	7.0	6.6
20°	44.2	44.4	39.7	34.2	29.7	24.7	20.2	11.8	7.5	6.1	5.9
22.5°	92.2	88.6	77.3	64.1	48.9	37.8	28.5	12.9	6.6	5.2	5.2
25°	197.8	184.0	156.6	118.3	83.4	59.1	41.5	14.5	5.9	4.5	4.8
27.5°	361.2	348.7	293.6	221.1	146.8	89.3	56.2	16.5	5.2	3.9	4.3
30°	574.6	540.2	468.3	362.5	245.4	136.6	75.5	18.8	4.3	3.4	4.1
31°	641.2	625.4	537.9	419.4	287.5	162.2	83.6	19.5	4.1	3.4	3.9
32°	720.3	692.2	613.8	481.7	330.4	185.1	93.4	20.2	3.9	2.9	3.9
33°	791.0	763.8	668.4	536.5	373.6	211.2	103.8	20.4	3.4	2.9	3.6
34°	865.3	828.2	733.7	593.9	418.0	239.3	113.3	20.6	3.2	2.7	3.6
35°	918.6	881.4	789.9	639.2	456.3	264.2	124.2	20.6	2.9	2.7	3.4
36°	959.8	927.2	838.4	685.9	494.4	286.6	132.8	20.6	2.5	2.5	3.4
37°	988.1	957.1	871.0	726.0	523.4	306.6	140.5	20.6	2.3	2.5	3.4
38°	1001.9	976.1	902.5	755.2	551.5	322.2	146.6	20.2	2.0	2.3	3.2
39°	1007.8	986.8	921.7	779.9	572.6	335.8	151.1	19.7	1.8	2.3	3.2
40°	1006.9	988.6	932.6	796.9	589.6	345.1	153.6	19.0	1.6	2.0	3.2
41°	1001.7	985.9	938.3	811.4	599.8	351.4	154.3	18.4	1.4	2.0	2.9
42°	995.8	981.3	940.1	819.1	606.3	353.5	152.5	17.4	1.4	1.8	2.9
43°	989.7	976.3	940.1	821.6	607.9	352.1	149.5	15.9	1.1	1.8	2.9
44°	984.7	972.0	937.1	820.9	604.5	346.9	144.1	14.0	0.9	1.8	2.9
45°	978.8	966.4	933.3	816.6	597.9	338.1	137.3	12.5	0.7	1.6	2.9
46°	968.4	958.7	926.5	807.8	587.5	325.8	128.7	11.3	0.5	1.6	2.7
47°	948.2	939.9	913.3	794.6	573.7	311.3	119.9	10.2	0.5	1.6	2.7
48°	907.7	907.5	887.1	770.1	551.7	293.2	110.6	9.1	0.5	1.6	2.7
49°	868.5	864.4	839.0	727.1	520.2	271.4	100.8	8.2	0.2	1.6	2.7
50°	847.0	838.1	796.4	676.3	479.9	241.3	90.4	6.8	0.2	1.4	2.7
51°	824.5	811.8	762.7	630.6	431.9	212.3	79.1	5.4	0.2	1.4	2.5
52°	784.0	772.0	716.9	586.8	385.2	182.6	68.2	4.5	0.2	1.4	2.7
53°	740.2	723.0	663.2	538.8	344.2	156.3	57.1	3.9	0.2	1.4	2.5
54°	685.2	677.5	608.8	479.9	296.1	131.0	46.9	3.2	0.2	1.4	2.5
55°	633.3	622.0	550.6	419.6	252.6	107.4	39.2	2.5	0.2	1.4	2.5
56°	567.1	550.1	483.3	364.3	208.5	86.6	33.1	2.0	0.2	1.4	2.5
57°	488.3	470.2	417.4	302.9	163.6	65.9	27.6	1.6	0.2	1.4	2.5
58°	413.1	397.4	340.8	233.8	123.3	45.8	22.9	1.1	0.2	1.1	2.5
59°	356.9	339.6	283.5	179.9	85.6	33.8	17.2	0.9	0.2	1.4	2.5
60°	309.1	286.9	228.2	139.3	61.2	24.2	12.7	0.5	0.5	1.4	2.5
62.5°	178.1	157.2	109.0	56.6	25.2	12.5	6.1	0.2	0.5	1.4	2.5
65°	45.1	40.1	26.1	12.2	7.0	4.3	2.3	0.2	0.5	1.1	2.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.6	1.6	1.6	1.4	1.1	0.9	0.5	0.2	0.5	1.1	2.3
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.2	0.5	1.1	2.0
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.1	1.8
75°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.1	1.8
77.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.6
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.7
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):

	135°	157.5°	180°
0°	11.6	11.6	11.6
2.5°	10.9	10.9	10.9
5°	10.2	10.2	10.0
7.5°	9.5	9.3	9.3
10°	8.6	8.6	8.6
12.5°	7.9	7.9	7.9
15°	7.3	7.5	7.5
17.5°	6.6	7.0	7.0
20°	6.1	6.6	6.8
22.5°	5.7	6.1	6.3
25°	5.4	5.9	6.1
27.5°	5.0	5.7	6.1
30°	4.8	5.4	5.9
31°	4.8	5.4	5.7
32°	4.5	5.4	5.7
33°	4.5	5.4	5.7
34°	4.5	5.2	5.7
35°	4.3	5.2	5.4
36°	4.3	5.2	5.4
37°	4.3	5.2	5.7
38°	4.3	5.2	5.4
39°	4.1	5.2	5.4
40°	4.1	5.2	5.4
41°	4.1	5.2	5.4
42°	4.1	5.2	5.4
43°	4.1	5.2	5.4
44°	4.1	5.0	5.4
45°	4.1	5.0	5.4
46°	4.1	5.2	5.4
47°	4.1	5.2	5.7
48°	4.1	5.0	5.4
49°	3.9	5.0	5.4
50°	3.9	5.0	5.4
51°	3.9	5.2	5.7
52°	3.9	5.2	5.7
53°	3.9	5.2	5.7
54°	3.9	5.2	5.4
55°	3.9	5.2	5.7
56°	3.9	5.2	5.4
57°	3.9	5.2	5.4
58°	3.9	5.0	5.4
59°	3.9	5.0	5.4
60°	3.9	5.0	5.4
62.5°	3.6	5.0	5.4
65°	3.6	4.8	5.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.4	4.8	5.0
70°	3.2	4.5	4.8
72.5°	2.9	4.3	4.5
75°	2.7	3.9	4.1
77.5°	2.3	3.4	3.9
80°	2.0	2.9	3.2
82.5°	1.6	2.5	2.7
85°	1.1	1.8	1.8
87.5°	0.5	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)