

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: P1338446

Luminaire Tested: P3A05R359735DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338446
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: P3A05R359735DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

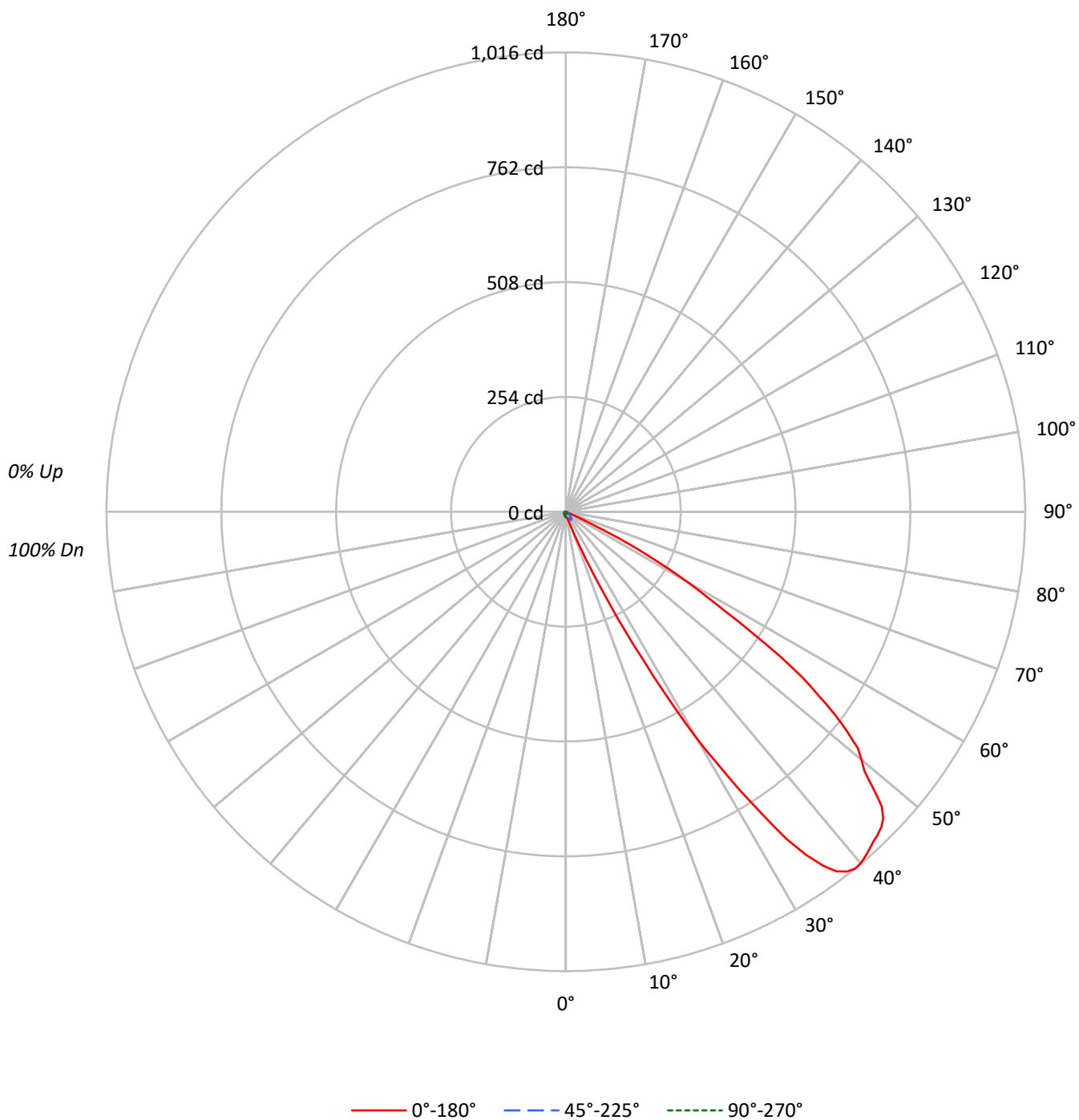
Lumens per Lamp: N/A
Luminaire Lumens: 253.0 lumens
Efficiency: N/A
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.42
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2544	2544	2544	2544	2544
5°	2773	2707	2509	2267	2201
10°	2895	2650	2227	1937	1937
15°	4154	2588	1816	1657	1703
20°	10384	2777	1447	1447	1610
25°	48245	3532	1113	1331	1500
30°	146655	4811	861	1215	1494
35°	247856	5568	723	1151	1472
40°	290544	5496	601	1174	1574
45°	305954	3907	496	1271	1706
50°	291231	2354	478	1330	1876
55°	244025	956	535	1491	2179
60°	136612	219	614	1710	2412
65°	23556	104	571	1920	2750
70°	449	128	705	2052	3077
75°	424	169	932	2288	3474
80°	253	253	1137	2652	4041
85°	0	503	2264	2768	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 308122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	3.0	1.2
20°-30°	15.5	6.1
30°-40°	67.0	26.5
40°-50°	95.6	37.8
50°-60°	59.2	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°	19.6	7.7
0°-40°	86.6	34.2
0°-60°	241.5	95.4
0°-90°	253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	13	12	11	10	10	1
15°	18	11	8	7	8	7
25°	199	15	5	6	6	119
35°	926	21	3	4	6	556
45°	987	13	2	4	6	745
55°	638	2	1	4	6	544
65°	45	0	1	4	5	93
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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	11.6	11.4
5°	12.6	12.6	12.3	12.3	12.3	12.3	12.3	12.3	11.9	11.4	10.7
7.5°	12.8	12.8	12.6	12.6	12.6	12.6	12.3	12.1	11.6	10.7	10.0
10°	13.0	13.0	13.0	13.0	12.8	12.6	12.3	11.9	11.2	10.0	9.4
12.5°	14.6	14.6	14.4	13.9	13.5	13.0	12.6	11.6	10.3	9.1	8.5
15°	18.3	18.0	17.6	16.9	16.0	14.8	13.9	11.4	9.4	8.0	7.5
17.5°	25.6	25.1	24.4	22.2	20.1	18.0	16.2	11.4	8.5	7.1	6.6
20°	44.5	44.8	40.0	34.5	29.9	24.9	20.3	11.9	7.5	6.2	5.9
22.5°	93.0	89.3	77.9	64.6	49.3	38.1	28.8	13.0	6.6	5.3	5.3
25°	199.4	185.4	157.8	119.2	84.0	59.6	41.8	14.6	5.9	4.6	4.8
27.5°	364.0	351.5	296.0	222.9	148.0	90.0	56.6	16.7	5.3	3.9	4.3
30°	579.2	544.5	472.1	365.4	247.3	137.7	76.1	19.0	4.3	3.4	4.1
31°	646.3	630.3	542.2	422.7	289.8	163.5	84.3	19.6	4.1	3.4	3.9
32°	726.0	697.7	618.7	485.6	333.0	186.6	94.1	20.3	3.9	3.0	3.9
33°	797.3	769.9	673.7	540.8	376.6	212.9	104.6	20.6	3.4	3.0	3.7
34°	872.2	834.8	739.5	598.6	421.4	241.2	114.2	20.8	3.2	2.7	3.7
35°	925.9	888.4	796.2	644.3	460.0	266.3	125.2	20.8	3.0	2.7	3.4
36°	967.4	934.6	845.0	691.3	498.3	288.9	133.8	20.8	2.5	2.5	3.4
37°	996.0	964.7	877.9	731.8	527.6	309.0	141.6	20.8	2.3	2.5	3.4
38°	1009.9	983.9	909.7	761.2	555.9	324.8	147.8	20.3	2.1	2.3	3.2
39°	1015.9	994.6	929.1	786.1	577.1	338.5	152.3	19.9	1.8	2.3	3.2
40°	1015.0	996.5	940.0	803.2	594.3	347.8	154.8	19.2	1.6	2.1	3.2
41°	1009.7	993.7	945.7	817.9	604.5	354.2	155.5	18.5	1.4	2.1	3.0
42°	1003.8	989.1	947.6	825.6	611.2	356.3	153.7	17.6	1.4	1.8	3.0
43°	997.6	984.1	947.6	828.1	612.8	354.9	150.7	16.0	1.1	1.8	3.0
44°	992.6	979.8	944.6	827.4	609.3	349.7	145.3	14.2	0.9	1.8	3.0
45°	986.6	974.1	940.7	823.1	602.7	340.8	138.4	12.6	0.7	1.6	3.0
46°	976.1	966.3	933.9	814.2	592.2	328.4	129.7	11.4	0.5	1.6	2.7
47°	955.8	947.3	920.6	801.0	578.3	313.8	120.8	10.3	0.5	1.6	2.7
48°	914.9	914.7	894.1	776.3	556.1	295.5	111.5	9.1	0.5	1.6	2.7
49°	875.4	871.3	845.7	732.9	524.4	273.6	101.6	8.2	0.2	1.6	2.7
50°	853.7	844.8	802.8	681.7	483.7	243.2	91.1	6.9	0.2	1.4	2.7
51°	831.1	818.3	768.7	635.6	435.3	214.0	79.7	5.5	0.2	1.4	2.5
52°	790.2	778.1	722.6	591.5	388.3	184.1	68.7	4.6	0.2	1.4	2.7
53°	746.1	728.8	668.5	543.1	346.9	157.6	57.6	3.9	0.2	1.4	2.5
54°	690.6	682.9	613.7	483.7	298.5	132.0	47.3	3.2	0.2	1.4	2.5
55°	638.3	626.9	555.0	423.0	254.7	108.3	39.5	2.5	0.2	1.4	2.5
56°	571.7	554.5	487.1	367.2	210.1	87.2	33.3	2.1	0.2	1.4	2.5
57°	492.2	473.9	420.7	305.4	164.9	66.5	27.9	1.6	0.2	1.4	2.5
58°	416.3	400.6	343.5	235.7	124.2	46.1	23.1	1.1	0.2	1.1	2.5
59°	359.7	342.4	285.7	181.3	86.3	34.0	17.4	0.9	0.2	1.4	2.5
60°	311.5	289.1	230.0	140.5	61.7	24.4	12.8	0.5	0.5	1.4	2.5
62.5°	179.5	158.5	109.9	57.1	25.4	12.6	6.2	0.2	0.5	1.4	2.5
65°	45.4	40.4	26.3	12.3	7.1	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	2.1
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°	11.0	11.0	11.0
5°	10.3	10.3	10.0
7.5°	9.6	9.4	9.4
10°	8.7	8.7	8.7
12.5°	8.0	8.0	8.0
15°	7.3	7.5	7.5
17.5°	6.6	7.1	7.1
20°	6.2	6.6	6.9
22.5°	5.7	6.2	6.4
25°	5.5	5.9	6.2
27.5°	5.0	5.7	6.2
30°	4.8	5.5	5.9
31°	4.8	5.5	5.7
32°	4.6	5.5	5.7
33°	4.6	5.5	5.7
34°	4.6	5.3	5.7
35°	4.3	5.3	5.5
36°	4.3	5.3	5.5
37°	4.3	5.3	5.7
38°	4.3	5.3	5.5
39°	4.1	5.3	5.5
40°	4.1	5.3	5.5
41°	4.1	5.3	5.5
42°	4.1	5.3	5.5
43°	4.1	5.3	5.5
44°	4.1	5.0	5.5
45°	4.1	5.0	5.5
46°	4.1	5.3	5.5
47°	4.1	5.3	5.7
48°	4.1	5.0	5.5
49°	3.9	5.0	5.5
50°	3.9	5.0	5.5
51°	3.9	5.3	5.7
52°	3.9	5.3	5.7
53°	3.9	5.3	5.7
54°	3.9	5.3	5.5
55°	3.9	5.3	5.7
56°	3.9	5.3	5.5
57°	3.9	5.3	5.5
58°	3.9	5.0	5.5
59°	3.9	5.0	5.5
60°	3.9	5.0	5.5
62.5°	3.7	5.0	5.5
65°	3.7	4.8	5.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.4	4.8	5.0
70°	3.2	4.6	4.8
72.5°	3.0	4.3	4.6
75°	2.7	3.9	4.1
77.5°	2.3	3.4	3.9
80°	2.1	3.0	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)