

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: P1335492

Luminaire Tested: P3A02R359835DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335492
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: P3A02R359835DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

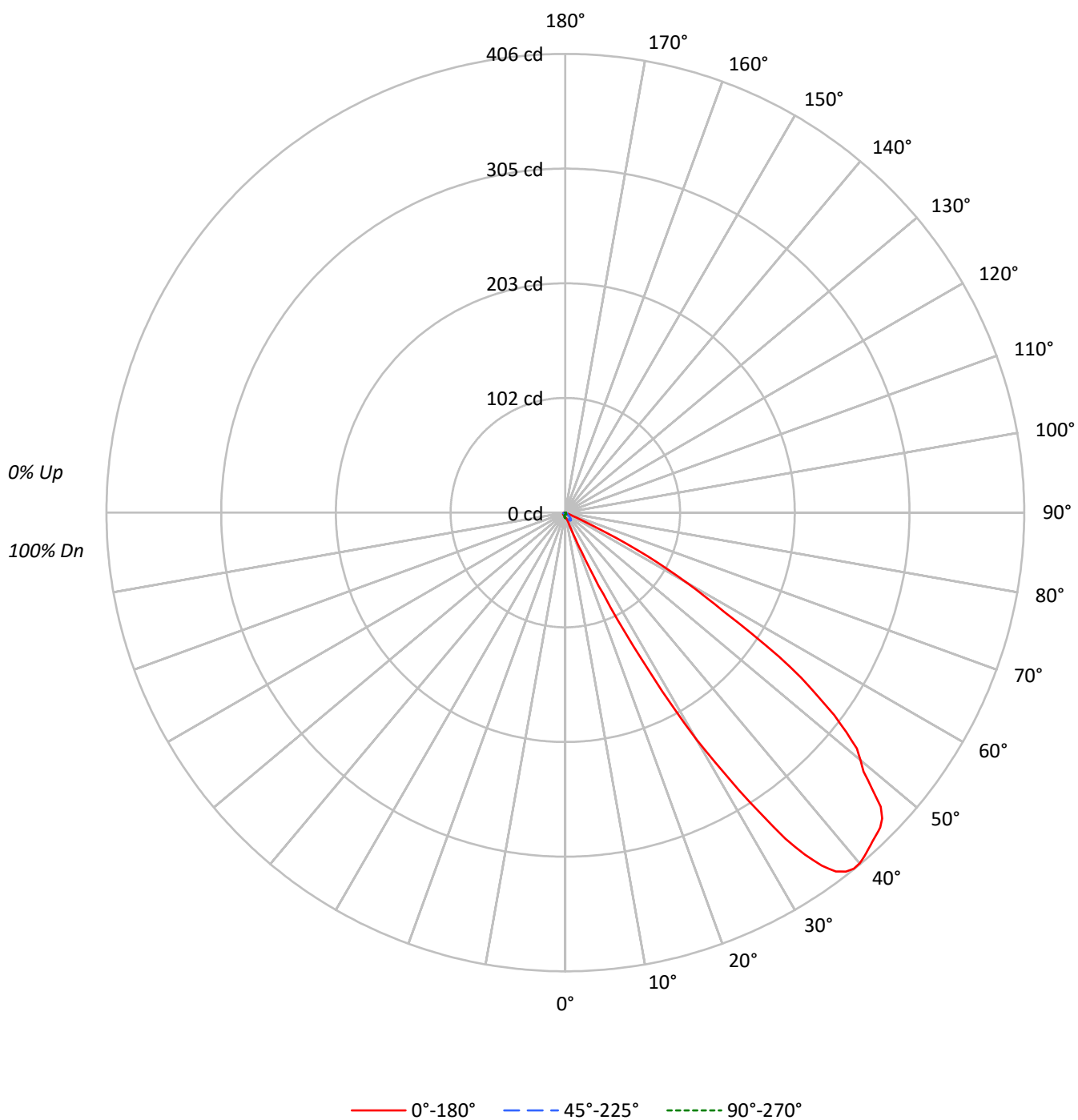
Lumens per Lamp: N/A
Luminaire Lumens: 101.0 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.67 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1335492

CATALOG NUMBER: P3A02R359835DE010 E3A451WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1335492

CATALOG NUMBER: P3A02R359835DE010 E3A451WMH

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	99	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°	1009	1009	1009	1009	1009
5°	1101	1079	1013	902	880
10°	1158	1047	891	779	779
15°	1657	1044	726	658	681
20°	4154	1097	583	583	630
25°	19259	1403	436	532	605
30°	58541	1924	354	481	608
35°	98939	2222	294	455	589
40°	115989	2204	229	458	630
45°	122152	1551	186	496	682
50°	116261	921	171	512	751
55°	97411	382	191	573	879
60°	54557	88	219	658	965
65°	9391	52	259	778	1090
70°	192	64	321	833	1218
75°	169	85	424	932	1356
80°	126	126	505	1010	1642
85°	0	252	1006	1258	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 123015 cd/sqm

TEST NUMBER: P1335492

CATALOG NUMBER: P3A02R359835DE010 E3A451WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.4
10°-20°	1.2	1.2
20°-30°	6.2	6.1
30°-40°	26.8	26.5
40°-50°	38.2	37.8
50°-60°	23.6	23.4
60°-70°	3.6	3.6
70°-80°	0.7	0.7
80°-90°	0.4	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°	7.8	7.7
0°-40°	34.6	34.2
0°-60°	96.4	95.4
0°-90°	101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	101.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	5	5	5	4	4	0
15°	7	5	3	3	3	3
25°	80	6	2	2	2	48
35°	370	8	1	2	2	222
45°	394	5	1	2	2	298
55°	255	1	0	2	2	217
65°	18	0	0	2	2	37
75°	0	0	0	1	2	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1335492

CATALOG NUMBER: P3A02R359835DE010 E3A451WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.6
5°	5.0	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.7	4.6	4.3
7.5°	5.1	5.1	5.0	5.0	5.0	5.0	4.9	4.8	4.6	4.3	4.0
10°	5.2	5.2	5.2	5.2	5.1	5.0	4.9	4.7	4.5	4.0	3.7
12.5°	5.8	5.8	5.7	5.6	5.4	5.2	5.0	4.6	4.1	3.6	3.4
15°	7.3	7.2	7.0	6.7	6.4	5.9	5.6	4.6	3.7	3.2	3.0
17.5°	10.2	10.0	9.8	8.8	8.0	7.2	6.5	4.6	3.4	2.8	2.6
20°	17.8	17.9	16.0	13.8	11.9	9.9	8.1	4.7	3.0	2.5	2.4
22.5°	37.1	35.6	31.1	25.8	19.7	15.2	11.5	5.2	2.6	2.1	2.1
25°	79.6	74.0	63.0	47.6	33.6	23.8	16.7	5.8	2.4	1.8	1.9
27.5°	145.3	140.3	118.2	89.0	59.1	35.9	22.6	6.7	2.1	1.5	1.7
30°	231.2	217.4	188.5	145.9	98.7	55.0	30.4	7.6	1.7	1.4	1.6
31°	258.0	251.6	216.4	168.8	115.7	65.3	33.6	7.8	1.6	1.4	1.5
32°	289.8	278.5	247.0	193.8	132.9	74.5	37.6	8.1	1.5	1.2	1.5
33°	318.3	307.3	269.0	215.9	150.3	85.0	41.8	8.2	1.4	1.2	1.5
34°	348.2	333.2	295.2	239.0	168.2	96.3	45.6	8.3	1.3	1.1	1.5
35°	369.6	354.7	317.8	257.2	183.6	106.3	50.0	8.3	1.2	1.1	1.4
36°	386.2	373.1	337.3	276.0	198.9	115.3	53.4	8.3	1.0	1.0	1.4
37°	397.6	385.1	350.5	292.1	210.6	123.4	56.5	8.3	0.9	1.0	1.4
38°	403.2	392.8	363.1	303.9	221.9	129.6	59.0	8.1	0.8	0.9	1.3
39°	405.5	397.1	370.9	313.8	230.4	135.1	60.8	7.9	0.7	0.9	1.3
40°	405.2	397.8	375.3	320.7	237.2	138.9	61.8	7.7	0.6	0.8	1.3
41°	403.1	396.7	377.6	326.5	241.3	141.4	62.1	7.4	0.5	0.8	1.2
42°	400.7	394.9	378.3	329.6	244.0	142.2	61.4	7.0	0.5	0.7	1.2
43°	398.2	392.9	378.3	330.6	244.6	141.7	60.2	6.4	0.5	0.7	1.2
44°	396.2	391.1	377.1	330.3	243.3	139.6	58.0	5.7	0.4	0.7	1.2
45°	393.9	388.9	375.5	328.6	240.6	136.0	55.3	5.0	0.3	0.6	1.2
46°	389.7	385.8	372.8	325.0	236.4	131.1	51.8	4.6	0.2	0.6	1.1
47°	381.6	378.2	367.5	319.7	230.9	125.3	48.2	4.1	0.2	0.6	1.1
48°	365.2	365.2	356.9	309.9	222.0	118.0	44.5	3.6	0.2	0.6	1.1
49°	349.5	347.8	337.6	292.6	209.3	109.2	40.6	3.3	0.1	0.6	1.1
50°	340.8	337.3	320.5	272.2	193.1	97.1	36.4	2.7	0.1	0.5	1.1
51°	331.8	326.7	306.9	253.7	173.8	85.4	31.8	2.2	0.1	0.5	1.0
52°	315.5	310.6	288.5	236.1	155.0	73.5	27.4	1.8	0.1	0.5	1.1
53°	297.9	290.9	266.9	216.8	138.5	62.9	23.0	1.5	0.1	0.5	1.0
54°	275.7	272.6	245.0	193.1	119.2	52.7	18.9	1.3	0.1	0.5	1.0
55°	254.8	250.3	221.6	168.9	101.7	43.2	15.8	1.0	0.1	0.5	1.0
56°	228.2	221.4	194.5	146.6	83.9	34.8	13.3	0.8	0.1	0.5	1.0
57°	196.5	189.2	167.9	121.9	65.8	26.5	11.1	0.6	0.1	0.5	1.0
58°	166.2	159.9	137.1	94.1	49.6	18.4	9.2	0.5	0.1	0.5	1.0
59°	143.6	136.7	114.1	72.4	34.5	13.6	6.9	0.4	0.1	0.5	1.0
60°	124.4	115.4	91.8	56.1	24.6	9.8	5.1	0.2	0.2	0.5	1.0
62.5°	71.7	63.3	43.9	22.8	10.1	5.0	2.5	0.1	0.2	0.5	1.0
65°	18.1	16.1	10.5	4.9	2.8	1.7	0.9	0.1	0.2	0.5	0.9



TEST NUMBER: P1335492

CATALOG NUMBER: P3A02R359835DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	0.6	0.6	0.6	0.5	0.5	0.4	0.2	0.1	0.2	0.5	0.9
70°	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.5	0.8
72.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.5	0.7
75°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.5	0.7
77.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.6
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.5
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.3	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1335492

CATALOG NUMBER: P3A02R359835DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	4.6	4.6	4.6
2.5°	4.4	4.4	4.4
5°	4.1	4.1	4.0
7.5°	3.8	3.7	3.7
10°	3.5	3.5	3.5
12.5°	3.2	3.2	3.2
15°	2.9	3.0	3.0
17.5°	2.6	2.8	2.8
20°	2.5	2.6	2.7
22.5°	2.3	2.5	2.6
25°	2.2	2.4	2.5
27.5°	2.0	2.3	2.5
30°	1.9	2.2	2.4
31°	1.9	2.2	2.3
32°	1.8	2.2	2.3
33°	1.8	2.2	2.3
34°	1.8	2.1	2.3
35°	1.7	2.1	2.2
36°	1.7	2.1	2.2
37°	1.7	2.1	2.3
38°	1.7	2.1	2.2
39°	1.6	2.1	2.2
40°	1.6	2.1	2.2
41°	1.6	2.1	2.2
42°	1.6	2.1	2.2
43°	1.6	2.1	2.2
44°	1.6	2.0	2.2
45°	1.6	2.0	2.2
46°	1.6	2.1	2.2
47°	1.6	2.1	2.3
48°	1.6	2.0	2.2
49°	1.5	2.0	2.2
50°	1.5	2.0	2.2
51°	1.5	2.1	2.3
52°	1.5	2.1	2.3
53°	1.5	2.1	2.3
54°	1.5	2.1	2.2
55°	1.5	2.1	2.3
56°	1.5	2.1	2.2
57°	1.5	2.1	2.2
58°	1.5	2.0	2.2
59°	1.5	2.0	2.2
60°	1.5	2.0	2.2
62.5°	1.5	2.0	2.2
65°	1.5	1.9	2.1



TEST NUMBER: P1335492

CATALOG NUMBER: P3A02R359835DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	1.4	1.9	2.0
70°	1.3	1.8	1.9
72.5°	1.2	1.7	1.8
75°	1.1	1.5	1.6
77.5°	0.9	1.4	1.5
80°	0.8	1.2	1.3
82.5°	0.6	1.0	1.1
85°	0.5	0.7	0.7
87.5°	0.2	0.4	0.4
90°	0.0	0.0	0.0

(END OF REPORT)