

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: P1345776

Luminaire Tested: P3A13R35W2N902750DE010 E3A451WMH_3500K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345776
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: P3A13R35W2N902750DE010 E3A451WMH_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 3500K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

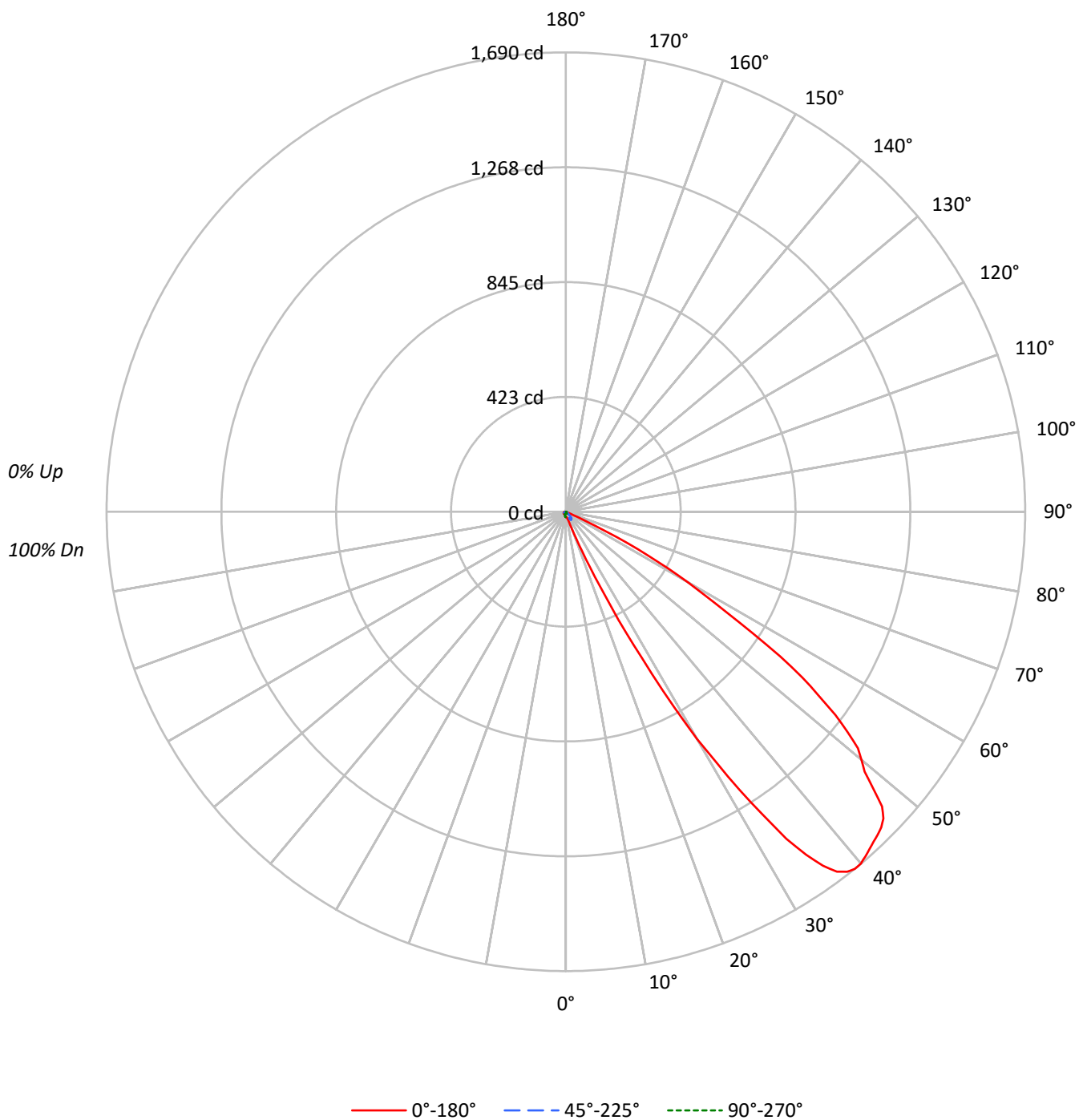
Lumens per Lamp: N/A
Luminaire Lumens: 421.0 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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			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	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38	31	26	24
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34	27	22	20
10	48	34	25	19	46	33	25	19	32	25	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4254	4254	4254	4254	4254
5°	4600	4512	4182	3764	3676
10°	4832	4409	3718	3206	3206
15°	6901	4313	3019	2770	2838
20°	17292	4620	2404	2404	2660
25°	80279	5879	1839	2202	2492
30°	244038	7976	1443	2026	2507
35°	412433	9262	1231	1927	2436
40°	483449	9131	973	1947	2605
45°	509138	6481	837	2109	2822
50°	484624	3889	785	2217	3104
55°	406084	1606	879	2485	3632
60°	227350	351	1009	2851	3991
65°	39226	208	986	3165	4514
70°	705	256	1218	3398	5129
75°	678	339	1610	3897	5761
80°	505	505	1894	4293	6693
85°	0	1006	3774	4780	7548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 512738 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.4
10°-20°	5.0	1.2
20°-30°	25.8	6.1
30°-40°	111.6	26.5
40°-50°	159.1	37.8
50°-60°	98.6	23.4
60°-70°	15.0	3.6
70°-80°	2.8	0.7
80°-90°	1.4	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°	32.5	7.7
0°-40°	144.1	34.2
0°-60°	401.8	95.4
0°-90°	421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	21	20	19	17	17	2
15°	30	19	13	12	12	11
25°	332	24	8	9	10	199
35°	1541	35	5	7	9	925
45°	1642	21	3	7	9	1240
55°	1062	4	2	6	10	905
65°	76	0	2	6	9	155
75°	1	0	2	5	7	1
85°	0	0	2	2	3	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°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	19.4	19.0
5°	20.9	20.9	20.5	20.5	20.5	20.5	20.5	20.5	19.8	19.0	17.9
7.5°	21.3	21.3	20.9	20.9	20.9	20.9	20.5	20.1	19.4	17.9	16.7
10°	21.7	21.7	21.7	21.7	21.3	20.9	20.5	19.8	18.6	16.7	15.6
12.5°	24.3	24.3	23.9	23.2	22.4	21.7	20.9	19.4	17.1	15.2	14.1
15°	30.4	30.0	29.3	28.1	26.6	24.7	23.2	19.0	15.6	13.3	12.5
17.5°	42.6	41.8	40.7	36.9	33.4	30.0	27.0	19.0	14.1	11.8	11.0
20°	74.1	74.5	66.5	57.4	49.8	41.4	33.8	19.8	12.5	10.3	9.9
22.5°	154.7	148.6	129.6	107.6	82.1	63.5	47.9	21.7	11.0	8.7	8.7
25°	331.8	308.6	262.6	198.4	139.9	99.2	69.5	24.3	9.9	7.6	8.0
27.5°	605.8	584.9	492.5	370.9	246.3	149.7	94.3	27.7	8.7	6.5	7.2
30°	963.8	906.0	785.5	608.1	411.6	229.2	126.6	31.5	7.2	5.7	6.8
31°	1075.5	1048.9	902.2	703.5	482.3	272.1	140.2	32.7	6.8	5.7	6.5
32°	1208.2	1161.0	1029.5	808.0	554.1	310.5	156.6	33.8	6.5	4.9	6.5
33°	1326.7	1281.1	1121.1	899.9	626.7	354.2	174.1	34.2	5.7	4.9	6.1
34°	1451.4	1389.1	1230.6	996.1	701.2	401.3	190.0	34.6	5.3	4.6	6.1
35°	1540.7	1478.4	1324.8	1072.1	765.4	443.1	208.3	34.6	4.9	4.6	5.7
36°	1609.9	1555.1	1406.2	1150.4	829.3	480.8	222.7	34.6	4.2	4.2	5.7
37°	1657.4	1605.3	1460.9	1217.7	877.9	514.2	235.6	34.6	3.8	4.2	5.7
38°	1680.5	1637.2	1513.7	1266.7	925.0	540.4	245.9	33.8	3.4	3.8	5.3
39°	1690.4	1655.1	1546.0	1308.1	960.4	563.2	253.5	33.1	3.0	3.8	5.3
40°	1688.9	1658.1	1564.3	1336.6	988.9	578.8	257.7	31.9	2.7	3.4	5.3
41°	1680.2	1653.6	1573.8	1360.9	1006.0	589.4	258.8	30.8	2.3	3.4	4.9
42°	1670.3	1646.0	1576.8	1373.9	1017.0	592.9	255.8	29.3	2.3	3.0	4.9
43°	1660.0	1637.6	1576.8	1378.0	1019.7	590.6	250.8	26.6	1.9	3.0	4.9
44°	1651.7	1630.4	1571.9	1376.9	1014.0	581.8	241.7	23.6	1.5	3.0	4.9
45°	1641.8	1620.9	1565.4	1369.7	1002.9	567.0	230.3	20.9	1.1	2.7	4.9
46°	1624.3	1608.0	1554.0	1354.9	985.5	546.5	215.9	19.0	0.8	2.7	4.6
47°	1590.5	1576.4	1532.0	1332.8	962.3	522.2	201.0	17.1	0.8	2.7	4.6
48°	1522.5	1522.1	1487.9	1291.8	925.4	491.8	185.5	15.2	0.8	2.7	4.6
49°	1456.7	1449.9	1407.3	1219.6	872.6	455.3	169.1	13.7	0.4	2.7	4.6
50°	1420.6	1405.8	1335.8	1134.4	804.9	404.7	151.6	11.4	0.4	2.3	4.6
51°	1383.0	1361.7	1279.2	1057.7	724.4	356.1	132.6	9.1	0.4	2.3	4.2
52°	1314.9	1294.8	1202.5	984.3	646.1	306.3	114.4	7.6	0.4	2.3	4.6
53°	1241.6	1212.7	1112.4	903.7	577.3	262.2	95.8	6.5	0.4	2.3	4.2
54°	1149.2	1136.3	1021.2	804.9	496.7	219.7	78.7	5.3	0.4	2.3	4.2
55°	1062.2	1043.2	923.5	703.8	423.7	180.1	65.7	4.2	0.4	2.3	4.2
56°	951.2	922.7	810.6	611.1	349.6	145.2	55.5	3.4	0.4	2.3	4.2
57°	819.0	788.6	700.0	508.1	274.4	110.6	46.4	2.7	0.4	2.3	4.2
58°	692.8	666.6	571.6	392.2	206.7	76.8	38.4	1.9	0.4	1.9	4.2
59°	598.6	569.7	475.4	301.8	143.7	56.6	28.9	1.5	0.4	2.3	4.2
60°	518.4	481.1	382.7	233.7	102.6	40.7	21.3	0.8	0.8	2.3	4.2
62.5°	298.7	263.7	182.8	95.0	42.2	20.9	10.3	0.4	0.8	2.3	4.2
65°	75.6	67.3	43.7	20.5	11.8	7.2	3.8	0.4	0.8	1.9	3.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.7	2.7	2.7	2.3	1.9	1.5	0.8	0.4	0.8	1.9	3.8
70°	1.1	1.1	1.1	0.8	0.8	0.4	0.4	0.4	0.8	1.9	3.4
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.1	1.9	3.0
75°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.1	1.9	3.0
77.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.3
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.1	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.5	1.1
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°	19.4	19.4	19.4
2.5°	18.2	18.2	18.2
5°	17.1	17.1	16.7
7.5°	16.0	15.6	15.6
10°	14.4	14.4	14.4
12.5°	13.3	13.3	13.3
15°	12.2	12.5	12.5
17.5°	11.0	11.8	11.8
20°	10.3	11.0	11.4
22.5°	9.5	10.3	10.6
25°	9.1	9.9	10.3
27.5°	8.4	9.5	10.3
30°	8.0	9.1	9.9
31°	8.0	9.1	9.5
32°	7.6	9.1	9.5
33°	7.6	9.1	9.5
34°	7.6	8.7	9.5
35°	7.2	8.7	9.1
36°	7.2	8.7	9.1
37°	7.2	8.7	9.5
38°	7.2	8.7	9.1
39°	6.8	8.7	9.1
40°	6.8	8.7	9.1
41°	6.8	8.7	9.1
42°	6.8	8.7	9.1
43°	6.8	8.7	9.1
44°	6.8	8.4	9.1
45°	6.8	8.4	9.1
46°	6.8	8.7	9.1
47°	6.8	8.7	9.5
48°	6.8	8.4	9.1
49°	6.5	8.4	9.1
50°	6.5	8.4	9.1
51°	6.5	8.7	9.5
52°	6.5	8.7	9.5
53°	6.5	8.7	9.5
54°	6.5	8.7	9.1
55°	6.5	8.7	9.5
56°	6.5	8.7	9.1
57°	6.5	8.7	9.1
58°	6.5	8.4	9.1
59°	6.5	8.4	9.1
60°	6.5	8.4	9.1
62.5°	6.1	8.4	9.1
65°	6.1	8.0	8.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.7	8.0	8.4
70°	5.3	7.6	8.0
72.5°	4.9	7.2	7.6
75°	4.6	6.5	6.8
77.5°	3.8	5.7	6.5
80°	3.4	4.9	5.3
82.5°	2.7	4.2	4.6
85°	1.9	3.0	3.0
87.5°	0.8	1.5	1.5
90°	0.0	0.0	0.0

(END OF REPORT)