

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: P1345860

Luminaire Tested: P3A13R35W2N902765DE010 E3A451WH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345860
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: P3A13R35W2N902765DE010 E3A451WH_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
E3A451WH TRIM
Light Source: -
Ballast/Driver: -

Summary

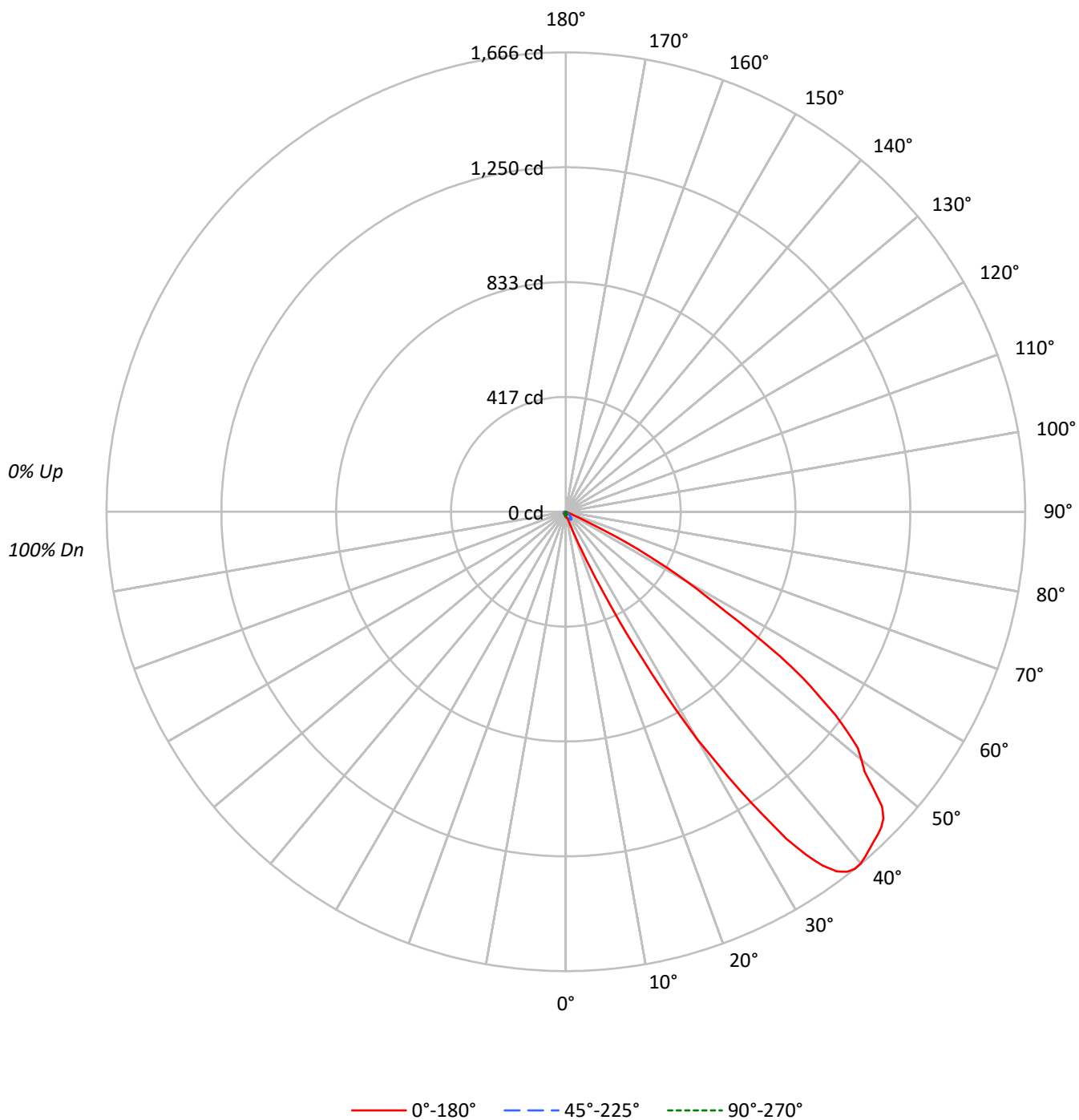
Lumens per Lamp: N/A
Luminaire Lumens: 415.0 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4188	4188	4188	4188	4188
5°	4534	4446	4116	3720	3632
10°	4765	4342	3674	3162	3162
15°	6810	4245	2974	2724	2815
20°	17058	4550	2357	2357	2614
25°	79117	5807	1815	2178	2444
30°	240569	7875	1418	2000	2456
35°	406544	9128	1205	1901	2409
40°	476550	9017	973	1918	2576
45°	501882	6388	806	2078	2791
50°	477733	3821	751	2183	3070
55°	400311	1567	841	2447	3594
60°	224105	307	965	2807	3947
65°	38707	208	986	3113	4462
70°	705	256	1218	3334	5065
75°	593	339	1610	3813	5676
80°	505	505	1894	4293	6566
85°	0	1006	3774	4780	7548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 505446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.4
10°-20°	4.9	1.2
20°-30°	25.5	6.1
30°-40°	110.0	26.5
40°-50°	156.9	37.8
50°-60°	97.2	23.4
60°-70°	14.8	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°	32.1	7.7
0°-40°	142.0	34.2
0°-60°	396.1	95.4
0°-90°	415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	415.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	21	20	19	17	16	2
15°	30	19	13	12	12	11
25°	327	24	8	9	10	196
35°	1519	34	4	7	9	912
45°	1618	21	3	7	9	1223
55°	1047	4	2	6	9	892
65°	75	0	2	6	9	152
75°	1	0	2	4	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°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.1	18.7
5°	20.6	20.6	20.2	20.2	20.2	20.2	20.2	20.2	19.5	18.7	17.6
7.5°	21.0	21.0	20.6	20.6	20.6	20.6	20.2	19.9	19.1	17.6	16.5
10°	21.4	21.4	21.4	21.4	21.0	20.6	20.2	19.5	18.4	16.5	15.4
12.5°	24.0	24.0	23.6	22.9	22.1	21.4	20.6	19.1	16.9	15.0	13.9
15°	30.0	29.6	28.8	27.7	26.2	24.4	22.9	18.7	15.4	13.1	12.4
17.5°	42.0	41.2	40.1	36.3	33.0	29.6	26.6	18.7	13.9	11.6	10.9
20°	73.1	73.4	65.6	56.6	49.1	40.8	33.3	19.5	12.4	10.1	9.7
22.5°	152.5	146.5	127.7	106.0	80.9	62.6	47.2	21.4	10.9	8.6	8.6
25°	327.0	304.2	258.9	195.6	137.9	97.8	68.6	24.0	9.7	7.5	7.9
27.5°	597.2	576.5	485.5	365.6	242.8	147.6	92.9	27.3	8.6	6.4	7.1
30°	950.1	893.1	774.4	599.4	405.7	225.9	124.8	31.1	7.1	5.6	6.7
31°	1060.2	1034.0	889.4	693.4	475.4	268.2	138.2	32.2	6.7	5.6	6.4
32°	1190.9	1144.5	1014.9	796.5	546.2	306.1	154.3	33.3	6.4	4.9	6.4
33°	1307.8	1262.9	1105.1	887.1	617.8	349.2	171.6	33.7	5.6	4.9	6.0
34°	1430.7	1369.3	1213.0	981.9	691.2	395.6	187.3	34.1	5.2	4.5	6.0
35°	1518.7	1457.3	1305.9	1056.8	754.5	436.8	205.3	34.1	4.9	4.5	5.6
36°	1586.9	1533.0	1386.1	1134.0	817.4	473.9	219.5	34.1	4.1	4.1	5.6
37°	1633.7	1582.4	1440.1	1200.3	865.4	506.9	232.3	34.1	3.7	4.1	5.6
38°	1656.6	1613.9	1492.1	1248.6	911.8	532.7	242.4	33.3	3.4	3.7	5.2
39°	1666.3	1631.5	1524.0	1289.5	946.7	555.2	249.9	32.6	3.0	3.7	5.2
40°	1664.8	1634.5	1542.0	1317.6	974.8	570.6	254.0	31.5	2.6	3.4	5.2
41°	1656.2	1630.0	1551.3	1341.5	991.6	581.0	255.1	30.3	2.2	3.4	4.9
42°	1646.5	1622.5	1554.3	1354.3	1002.5	584.4	252.1	28.8	2.2	3.0	4.9
43°	1636.4	1614.3	1554.3	1358.4	1005.1	582.2	247.3	26.2	1.9	3.0	4.9
44°	1628.1	1607.1	1549.5	1357.3	999.5	573.6	238.3	23.2	1.5	3.0	4.9
45°	1618.4	1597.8	1543.1	1350.2	988.6	558.9	227.0	20.6	1.1	2.6	4.9
46°	1601.2	1585.0	1531.8	1335.5	971.4	538.7	212.8	18.7	0.7	2.6	4.5
47°	1567.8	1554.0	1510.1	1313.8	948.6	514.7	198.2	16.9	0.7	2.6	4.5
48°	1500.8	1500.4	1466.7	1273.4	912.2	484.8	182.8	15.0	0.7	2.6	4.5
49°	1435.9	1429.2	1387.2	1202.2	860.1	448.8	166.7	13.5	0.4	2.6	4.5
50°	1400.4	1385.7	1316.8	1118.3	793.5	399.0	149.5	11.2	0.4	2.2	4.5
51°	1363.3	1342.3	1261.0	1042.6	714.0	351.0	130.7	9.0	0.4	2.2	4.1
52°	1296.2	1276.4	1185.3	970.3	636.9	301.9	112.8	7.5	0.4	2.2	4.5
53°	1223.9	1195.4	1096.5	890.9	569.1	258.5	94.4	6.4	0.4	2.2	4.1
54°	1132.9	1120.1	1006.6	793.5	489.6	216.5	77.5	5.2	0.4	2.2	4.1
55°	1047.1	1028.3	910.3	693.8	417.7	177.6	64.8	4.1	0.4	2.2	4.1
56°	937.7	909.6	799.1	602.4	344.7	143.1	54.7	3.4	0.4	2.2	4.1
57°	807.3	777.3	690.1	500.9	270.5	109.0	45.7	2.6	0.4	2.2	4.1
58°	682.9	657.1	563.4	386.6	203.8	75.7	37.8	1.9	0.4	1.9	4.1
59°	590.0	561.6	468.7	297.5	141.6	55.8	28.5	1.5	0.4	2.2	4.1
60°	511.0	474.3	377.2	230.4	101.1	40.1	21.0	0.7	0.7	2.2	4.1
62.5°	294.5	260.0	180.2	93.7	41.6	20.6	10.1	0.4	0.7	2.2	4.1
65°	74.6	66.3	43.1	20.2	11.6	7.1	3.7	0.4	0.7	1.9	3.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.6	2.6	2.6	2.2	1.9	1.5	0.7	0.4	0.7	1.9	3.7
70°	1.1	1.1	1.1	0.7	0.7	0.4	0.4	0.4	0.7	1.9	3.4
72.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.9	3.0
75°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.9	3.0
77.5°	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.6
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.2
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°	19.1	19.1	19.1
2.5°	18.0	18.0	18.0
5°	16.9	16.9	16.5
7.5°	15.7	15.4	15.4
10°	14.2	14.2	14.2
12.5°	13.1	13.1	13.1
15°	12.0	12.4	12.4
17.5°	10.9	11.6	11.6
20°	10.1	10.9	11.2
22.5°	9.4	10.1	10.5
25°	9.0	9.7	10.1
27.5°	8.2	9.4	10.1
30°	7.9	9.0	9.7
31°	7.9	9.0	9.4
32°	7.5	9.0	9.4
33°	7.5	9.0	9.4
34°	7.5	8.6	9.4
35°	7.1	8.6	9.0
36°	7.1	8.6	9.0
37°	7.1	8.6	9.4
38°	7.1	8.6	9.0
39°	6.7	8.6	9.0
40°	6.7	8.6	9.0
41°	6.7	8.6	9.0
42°	6.7	8.6	9.0
43°	6.7	8.6	9.0
44°	6.7	8.2	9.0
45°	6.7	8.2	9.0
46°	6.7	8.6	9.0
47°	6.7	8.6	9.4
48°	6.7	8.2	9.0
49°	6.4	8.2	9.0
50°	6.4	8.2	9.0
51°	6.4	8.6	9.4
52°	6.4	8.6	9.4
53°	6.4	8.6	9.4
54°	6.4	8.6	9.0
55°	6.4	8.6	9.4
56°	6.4	8.6	9.0
57°	6.4	8.6	9.0
58°	6.4	8.2	9.0
59°	6.4	8.2	9.0
60°	6.4	8.2	9.0
62.5°	6.0	8.2	9.0
65°	6.0	7.9	8.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.6	7.9	8.2
70°	5.2	7.5	7.9
72.5°	4.9	7.1	7.5
75°	4.5	6.4	6.7
77.5°	3.7	5.6	6.4
80°	3.4	4.9	5.2
82.5°	2.6	4.1	4.5
85°	1.9	3.0	3.0
87.5°	0.7	1.5	1.5
90°	0.0	0.0	0.0

(END OF REPORT)