

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: P1345262

Luminaire Tested: P3A13R30W2N902750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R30W2N902750DE010 E3A451WMH_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

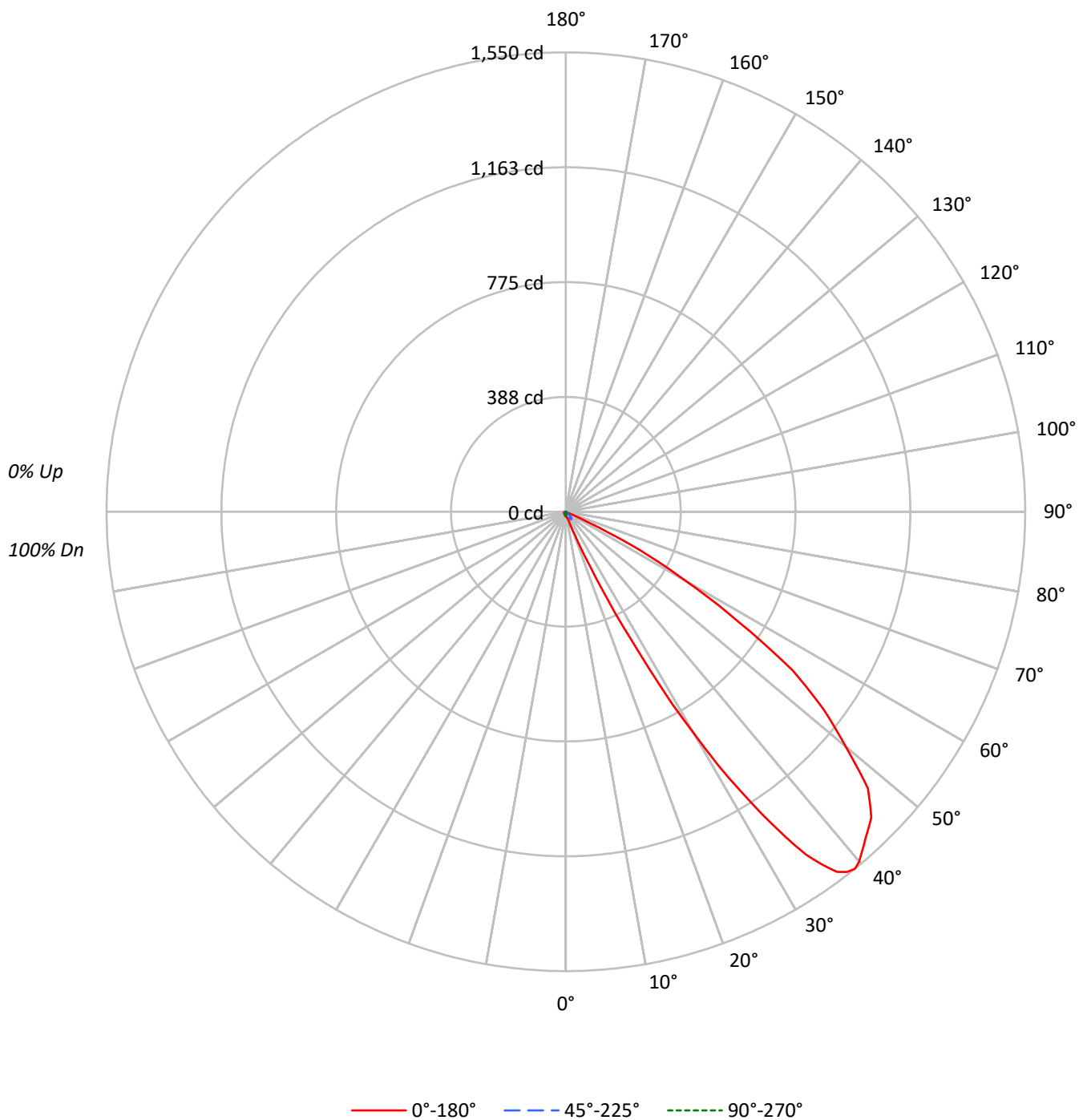
Lumens per Lamp: N/A
Luminaire Lumens: 403.0 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3421	3421	3421	3421	3421
5°	3654	3588	3368	3060	2994
10°	4008	3563	2939	2650	2561
15°	5857	3541	2474	2225	2316
20°	14725	3874	1890	1890	2147
25°	68423	4839	1476	1718	1960
30°	217806	6710	1114	1621	1975
35°	377955	8191	910	1553	2008
40°	440769	8158	687	1546	2032
45°	452047	5799	744	1675	2202
50°	420387	3241	580	1740	2559
55°	357301	1682	650	1950	2867
60°	206343	439	746	2105	3114
65°	42080	0	882	2491	3528
70°	641	192	1090	2821	4103
75°	593	254	1186	2881	4914
80°	379	379	1768	3410	5556
85°	0	755	3522	3522	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 452047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.4
10°-20°	4.1	1.0
20°-30°	23.2	5.8
30°-40°	108.6	26.9
40°-50°	153.5	38.1
50°-60°	94.4	23.4
60°-70°	14.4	3.6
70°-80°	2.3	0.6
80°-90°	1.1	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°	28.7	7.1
0°-40°	137.3	34.1
0°-60°	385.2	95.6
0°-90°	403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	403.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	17	16	15	14	14	2
15°	26	16	11	10	10	9
25°	283	20	6	7	8	174
35°	1412	31	3	6	8	847
45°	1458	19	2	5	7	1105
55°	935	4	2	5	8	795
65°	81	0	2	5	7	147
75°	1	0	1	3	6	1
85°	0	0	1	1	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	16.0	16.0	16.3	16.3	16.0	16.3	16.3	16.3	15.6	15.3	14.6
5°	16.6	16.6	16.6	17.0	16.6	16.6	16.3	16.0	15.3	14.3	13.9
7.5°	17.3	17.3	17.0	17.3	17.0	17.0	16.3	15.6	14.6	13.6	12.9
10°	18.0	18.0	17.7	17.7	17.3	17.3	16.0	14.9	13.2	12.2	11.9
12.5°	20.0	20.0	19.7	19.3	18.7	18.3	15.6	13.9	11.9	10.9	10.5
15°	25.8	25.5	24.8	23.8	22.1	21.7	15.6	12.9	10.9	9.8	9.8
17.5°	35.3	35.0	33.9	31.2	28.2	27.2	15.6	11.5	9.5	8.8	8.8
20°	63.1	60.4	55.3	48.5	41.4	37.7	16.6	10.2	8.1	7.8	8.1
21°	82.5	79.8	73.3	62.1	49.6	45.5	17.3	9.8	7.8	7.5	8.1
22°	112.4	109.3	96.1	80.8	62.8	55.7	17.7	9.2	7.1	7.1	7.8
23°	156.8	151.7	129.3	104.9	78.4	68.2	18.3	8.8	6.8	7.1	7.5
24°	205.4	201.0	175.5	138.8	100.1	85.5	19.0	8.5	6.4	6.4	7.1
25°	282.8	277.7	232.5	175.2	127.0	102.9	20.0	7.8	6.1	6.1	7.1
26°	382.9	359.5	299.4	225.7	156.5	129.0	21.0	7.5	5.8	6.1	6.8
27°	478.0	458.6	391.1	289.6	193.5	158.5	22.4	7.1	5.4	5.8	6.8
28°	602.9	575.7	490.5	366.3	243.7	191.8	23.8	6.8	5.1	5.8	6.4
29°	742.8	704.7	601.9	452.5	300.4	229.1	25.1	6.4	4.8	5.4	6.4
30°	860.2	824.6	721.7	554.7	365.6	278.4	26.5	6.1	4.4	5.4	6.4
31°	998.0	944.1	819.5	641.3	421.6	327.6	27.8	5.4	4.1	5.1	6.1
32°	1109.7	1072.0	939.7	739.0	495.3	381.9	28.9	5.1	4.1	5.1	6.1
33°	1217.7	1167.1	1039.1	832.7	561.8	437.6	29.9	4.8	3.7	4.8	6.1
34°	1320.9	1274.4	1133.2	908.4	624.6	490.5	30.6	4.1	3.7	4.8	5.8
35°	1411.9	1357.9	1216.0	982.4	689.1	538.7	30.6	3.7	3.4	4.4	5.8
36°	1470.9	1432.2	1287.9	1055.4	747.5	584.6	30.6	3.4	3.1	4.4	5.4
37°	1521.5	1476.4	1345.7	1111.4	790.6	621.2	30.6	3.1	3.1	4.4	5.4
38°	1542.2	1503.5	1385.4	1161.0	831.0	658.6	30.2	2.7	2.7	4.1	5.4
39°	1550.4	1515.7	1415.3	1196.6	860.9	683.7	29.5	2.4	2.7	4.1	5.4
40°	1539.8	1513.7	1430.5	1219.7	884.7	702.0	28.5	2.0	2.4	4.1	5.4
42.5°	1496.4	1479.1	1427.1	1242.8	905.0	715.6	24.8	1.4	2.4	3.7	5.4
45°	1457.7	1438.7	1392.8	1218.7	878.5	688.8	18.7	0.7	2.4	3.7	5.4
47.5°	1382.7	1370.8	1334.8	1157.3	820.5	628.4	13.2	0.3	2.0	3.4	5.1
50°	1232.3	1221.1	1173.5	1004.8	705.8	531.3	9.5	0.3	1.7	3.4	5.1
52.5°	1097.5	1085.6	1017.4	835.4	542.1	389.4	6.1	0.3	1.7	3.4	5.1
55°	934.6	913.9	824.2	634.1	384.3	261.1	4.4	0.3	1.7	3.1	5.1
57.5°	691.8	661.6	581.5	432.5	221.3	141.6	2.4	0.3	1.7	3.1	5.1
60°	470.5	452.5	363.9	228.1	94.4	59.7	1.0	0.3	1.7	3.1	4.8
62.5°	285.2	262.4	183.0	97.1	40.7	27.2	0.0	0.7	1.7	3.1	4.8
65°	81.1	72.0	47.9	22.1	11.5	8.8	0.0	0.7	1.7	3.1	4.8
67.5°	2.7	2.7	2.7	2.4	1.7	1.7	0.3	0.7	1.7	3.1	4.4
70°	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.7	1.7	2.7	4.4
72.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.7	1.4	2.4	4.1
75°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.4	2.4	3.4
77.5°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.4	2.0	3.4
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.4	2.0	2.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.3	1.0	1.4	1.4	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.4	1.0	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0	1.0	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):

	157.5°	180°
0°	15.6	15.6
2.5°	14.6	14.6
5°	13.6	13.6
7.5°	12.6	12.6
10°	11.5	11.5
12.5°	10.9	10.9
15°	9.8	10.2
17.5°	9.2	9.5
20°	8.8	9.2
21°	8.8	9.2
22°	8.5	8.8
23°	8.5	8.8
24°	8.1	8.5
25°	7.8	8.1
26°	7.8	8.1
27°	7.8	8.1
28°	7.5	8.1
29°	7.5	7.8
30°	7.5	7.8
31°	7.1	7.8
32°	7.1	7.8
33°	7.1	7.5
34°	6.8	7.5
35°	6.8	7.5
36°	6.8	7.5
37°	6.8	7.1
38°	6.8	7.5
39°	6.8	7.1
40°	6.8	7.1
42.5°	6.8	7.1
45°	6.8	7.1
47.5°	6.8	7.5
50°	6.8	7.5
52.5°	6.8	7.5
55°	6.8	7.5
57.5°	6.8	7.1
60°	6.8	7.1
62.5°	6.4	7.1
65°	6.4	6.8
67.5°	6.4	6.8
70°	6.1	6.4
72.5°	5.8	6.1
75°	5.1	5.8
77.5°	4.8	5.1
80°	4.1	4.4



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	3.4	3.4
85°	2.4	2.7
87.5°	1.4	1.4
90°	0.0	0.0

(END OF REPORT)