

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: P1345186

Luminaire Tested: P3A13R30B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345186
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: P3A13R30B2750DE010 E3A451WMH_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

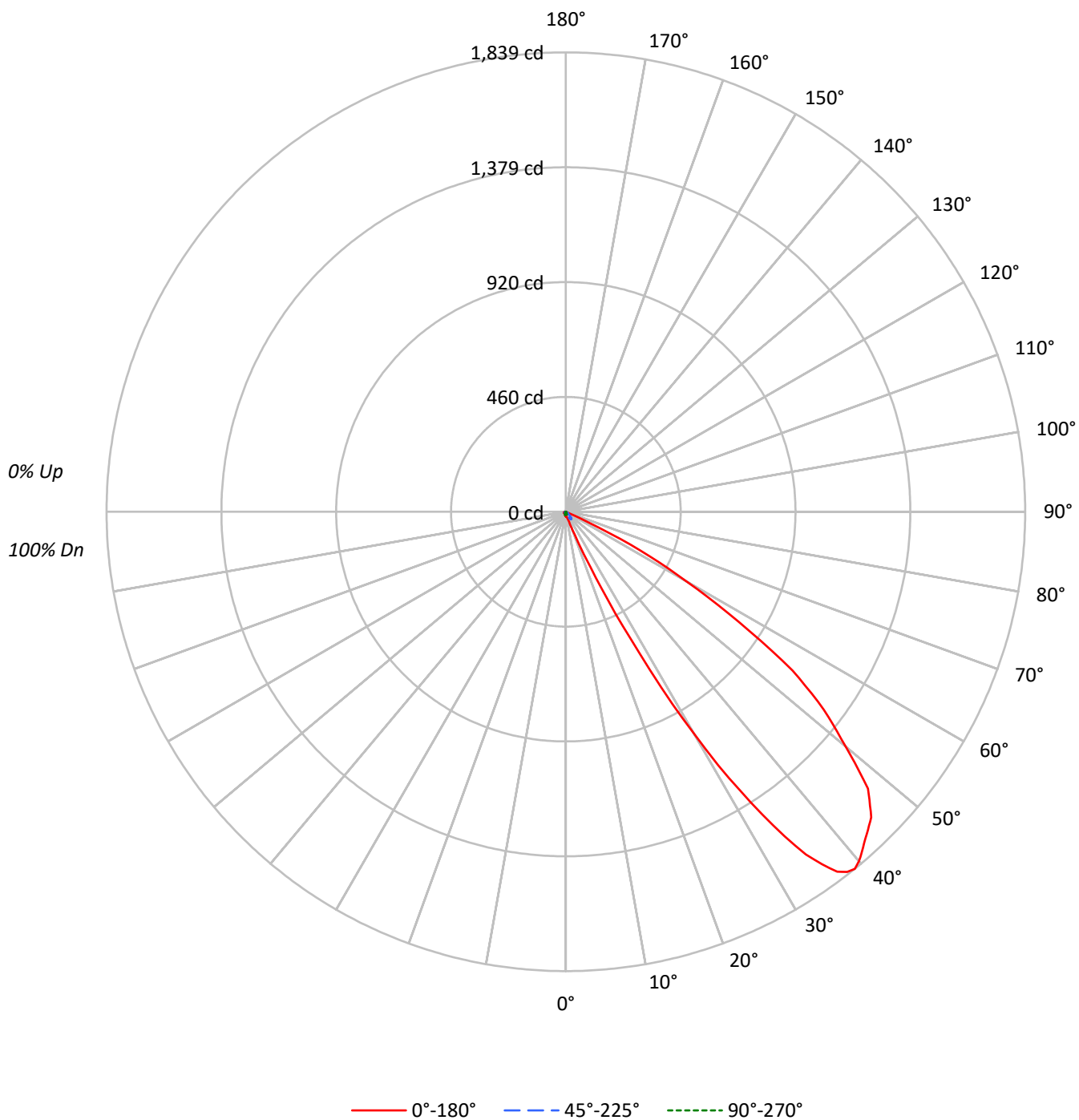
Lumens per Lamp: N/A
Luminaire Lumens: 478.0 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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	108	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	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4057	4057	4057	4057	4057
5°	4336	4248	3984	3632	3544
10°	4743	4208	3496	3140	3050
15°	6947	4200	2929	2656	2747
20°	17478	4597	2264	2264	2544
25°	81150	5758	1742	2057	2347
30°	258344	7951	1317	1950	2355
35°	448277	9690	1071	1820	2382
40°	522808	9675	802	1832	2433
45°	536180	6853	868	1985	2636
50°	498610	3855	682	2047	3036
55°	423784	1988	765	2294	3403
60°	244761	526	877	2456	3728
65°	49915	0	1038	2906	4203
70°	769	256	1282	3334	4937
75°	678	339	1356	3389	5761
80°	505	505	2020	4041	6566
85°	0	1006	4026	4026	8051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 536180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.3
10°-20°	4.8	1.0
20°-30°	27.6	5.8
30°-40°	128.7	26.9
40°-50°	182.1	38.1
50°-60°	112.0	23.4
60°-70°	17.1	3.6
70°-80°	2.7	0.6
80°-90°	1.3	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°	34.1	7.1
0°-40°	162.8	34.1
0°-60°	456.9	95.6
0°-90°	478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	478.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	20	19	18	16	16	2
15°	31	18	13	12	12	11
25°	335	24	7	8	10	206
35°	1675	36	4	7	9	1005
45°	1729	22	3	6	8	1311
55°	1108	5	2	6	9	943
65°	96	0	2	6	8	174
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°	22.5°	45°	67.5°	90°	112.5°	135°
0°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	18.9	18.9	19.3	19.3	18.9	19.3	19.3	19.3	18.5	18.1	17.3
5°	19.7	19.7	19.7	20.1	19.7	19.7	19.3	18.9	18.1	16.9	16.5
7.5°	20.5	20.5	20.1	20.5	20.1	20.1	19.3	18.5	17.3	16.1	15.3
10°	21.3	21.3	20.9	20.9	20.5	20.5	18.9	17.7	15.7	14.5	14.1
12.5°	23.8	23.8	23.4	23.0	22.1	21.7	18.5	16.5	14.1	12.9	12.5
15°	30.6	30.2	29.4	28.2	26.2	25.8	18.5	15.3	12.9	11.7	11.7
17.5°	41.9	41.5	40.3	37.0	33.4	32.2	18.5	13.7	11.3	10.5	10.5
20°	74.9	71.7	65.6	57.6	49.1	44.7	19.7	12.1	9.7	9.3	9.7
21°	97.8	94.6	87.0	73.7	58.8	54.0	20.5	11.7	9.3	8.9	9.7
22°	133.3	129.7	113.9	95.8	74.5	66.0	20.9	10.9	8.5	8.5	9.3
23°	186.0	180.0	153.4	124.4	93.0	80.9	21.7	10.5	8.1	8.5	8.9
24°	243.6	238.4	208.2	164.7	118.8	101.5	22.5	10.1	7.7	7.7	8.5
25°	335.4	329.4	275.8	207.8	150.6	122.0	23.8	9.3	7.2	7.2	8.5
26°	454.2	426.4	355.1	267.8	185.6	153.0	25.0	8.9	6.8	7.2	8.1
27°	566.9	544.0	463.8	343.5	229.5	188.0	26.6	8.5	6.4	6.8	8.1
28°	715.1	682.9	581.8	434.5	289.1	227.5	28.2	8.1	6.0	6.8	7.7
29°	881.0	835.9	713.9	536.7	356.3	271.8	29.8	7.7	5.6	6.4	7.7
30°	1020.3	978.0	856.0	657.9	433.7	330.2	31.4	7.2	5.2	6.4	7.7
31°	1183.8	1119.8	972.0	760.6	500.1	388.6	33.0	6.4	4.8	6.0	7.2
32°	1316.3	1271.6	1114.5	876.6	587.5	453.0	34.2	6.0	4.8	6.0	7.2
33°	1444.3	1384.3	1232.5	987.7	666.4	519.0	35.4	5.6	4.4	5.6	7.2
34°	1566.7	1511.5	1344.0	1077.5	740.9	581.8	36.2	4.8	4.4	5.6	6.8
35°	1674.6	1610.6	1442.3	1165.3	817.4	639.0	36.2	4.4	4.0	5.2	6.8
36°	1744.7	1698.8	1527.6	1251.8	886.6	693.4	36.2	4.0	3.6	5.2	6.4
37°	1804.7	1751.1	1596.1	1318.3	937.8	736.8	36.2	3.6	3.6	5.2	6.4
38°	1829.2	1783.3	1643.2	1377.1	985.7	781.1	35.8	3.2	3.2	4.8	6.4
39°	1838.9	1797.8	1678.6	1419.3	1021.1	810.9	35.0	2.8	3.2	4.8	6.4
40°	1826.4	1795.4	1696.8	1446.7	1049.3	832.7	33.8	2.4	2.8	4.8	6.4
42.5°	1774.9	1754.3	1692.7	1474.1	1073.5	848.8	29.4	1.6	2.8	4.4	6.4
45°	1729.0	1706.4	1652.1	1445.5	1042.1	817.0	22.1	0.8	2.8	4.4	6.4
47.5°	1640.0	1625.9	1583.2	1372.6	973.2	745.3	15.7	0.4	2.4	4.0	6.0
50°	1461.6	1448.3	1392.0	1191.8	837.1	630.1	11.3	0.4	2.0	4.0	6.0
52.5°	1301.8	1287.7	1206.7	990.9	643.0	461.8	7.2	0.4	2.0	4.0	6.0
55°	1108.5	1083.9	977.6	752.1	455.8	309.6	5.2	0.4	2.0	3.6	6.0
57.5°	820.6	784.8	689.7	513.0	262.5	167.9	2.8	0.4	2.0	3.6	6.0
60°	558.1	536.7	431.6	270.6	111.9	70.9	1.2	0.4	2.0	3.6	5.6
62.5°	338.2	311.2	217.0	115.2	48.3	32.2	0.0	0.8	2.0	3.6	5.6
65°	96.2	85.4	56.8	26.2	13.7	10.5	0.0	0.8	2.0	3.6	5.6
67.5°	3.2	3.2	3.2	2.8	2.0	2.0	0.4	0.8	2.0	3.6	5.2
70°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.8	2.0	3.2	5.2
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.8	1.6	2.8	4.8
75°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.6	2.8	4.0
77.5°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.6	2.4	4.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.4	3.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.4	1.2	1.6	1.6	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	1.2	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.2	1.2	0.8
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°	18.5	18.5
2.5°	17.3	17.3
5°	16.1	16.1
7.5°	14.9	14.9
10°	13.7	13.7
12.5°	12.9	12.9
15°	11.7	12.1
17.5°	10.9	11.3
20°	10.5	10.9
21°	10.5	10.9
22°	10.1	10.5
23°	10.1	10.5
24°	9.7	10.1
25°	9.3	9.7
26°	9.3	9.7
27°	9.3	9.7
28°	8.9	9.7
29°	8.9	9.3
30°	8.9	9.3
31°	8.5	9.3
32°	8.5	9.3
33°	8.5	8.9
34°	8.1	8.9
35°	8.1	8.9
36°	8.1	8.9
37°	8.1	8.5
38°	8.1	8.9
39°	8.1	8.5
40°	8.1	8.5
42.5°	8.1	8.5
45°	8.1	8.5
47.5°	8.1	8.9
50°	8.1	8.9
52.5°	8.1	8.9
55°	8.1	8.9
57.5°	8.1	8.5
60°	8.1	8.5
62.5°	7.7	8.5
65°	7.7	8.1
67.5°	7.7	8.1
70°	7.2	7.7
72.5°	6.8	7.2
75°	6.0	6.8
77.5°	5.6	6.0
80°	4.8	5.2



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	4.0	4.0
85°	2.8	3.2
87.5°	1.6	1.6
90°	0.0	0.0

(END OF REPORT)