

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: P1345183

Luminaire Tested: P3A13R30B2750DE010 E3A451WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345183
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

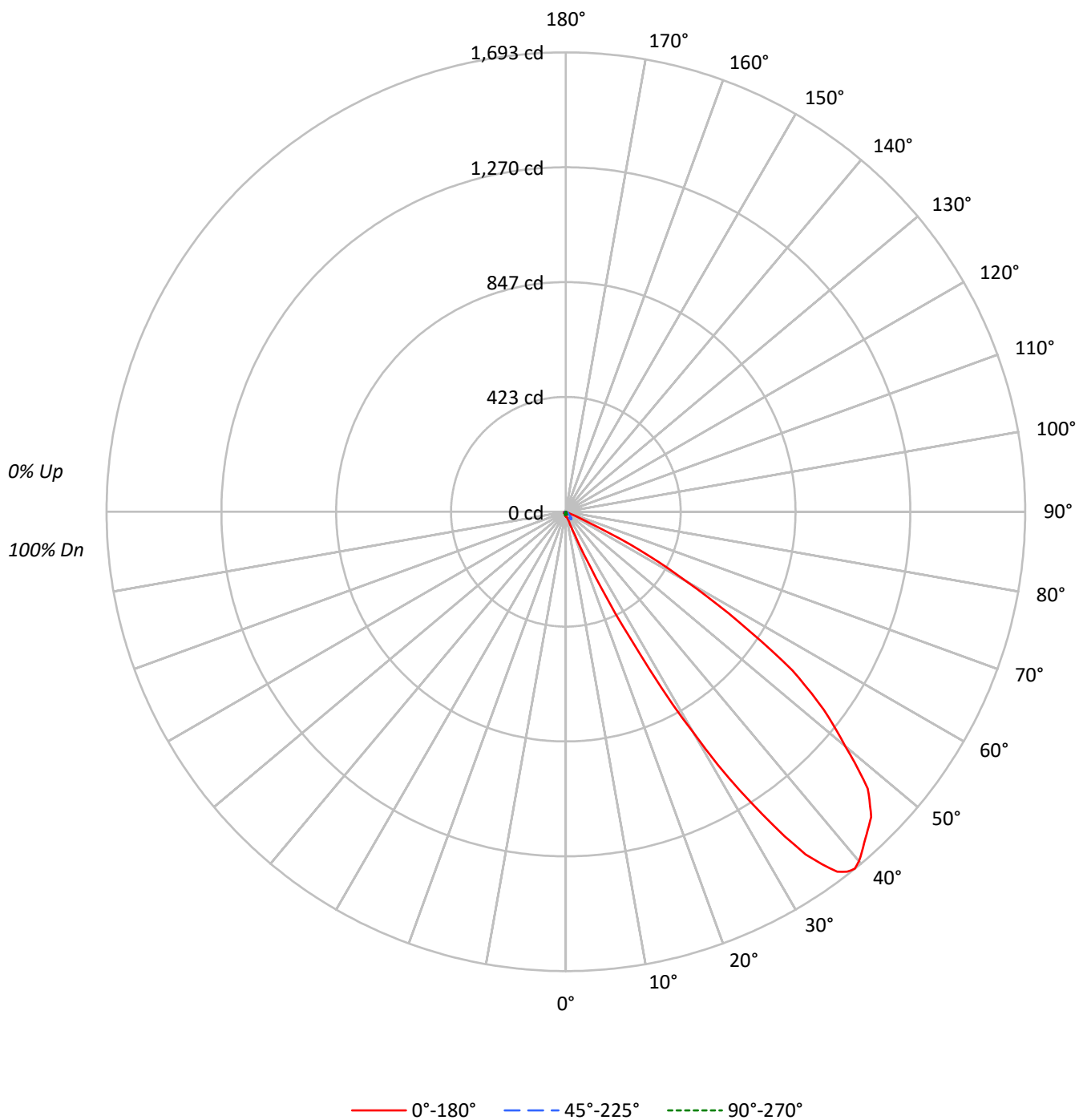
Lumens per Lamp: N/A
Luminaire Lumens: 440.0 lumens
Efficiency: N/A
Efficacy: 23.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3728	3728	3728	3728	3728
5°	4006	3918	3676	3346	3258
10°	4364	3874	3229	2895	2806
15°	6402	3859	2701	2429	2520
20°	16078	4247	2077	2077	2334
25°	74690	5299	1621	1887	2153
30°	237809	7318	1215	1772	2152
35°	412648	8941	990	1686	2195
40°	481244	8902	744	1689	2233
45°	493540	6326	806	1830	2419
50°	458970	3548	648	1910	2797
55°	390103	1835	726	2141	3135
60°	225289	482	833	2281	3421
65°	45971	0	986	2698	3840
70°	705	256	1218	3077	4488
75°	593	339	1271	3135	5338
80°	505	505	1894	3788	6061
85°	0	1006	3774	3774	7548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 493540 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.3
10°-20°	4.4	1.0
20°-30°	25.4	5.8
30°-40°	118.5	26.9
40°-50°	167.6	38.1
50°-60°	103.1	23.4
60°-70°	15.7	3.6
70°-80°	2.5	0.6
80°-90°	1.2	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°	31.3	7.1
0°-40°	149.9	34.1
0°-60°	420.6	95.6
0°-90°	440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	440.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	18	18	17	15	15	2
15°	28	17	12	11	11	10
25°	309	22	7	8	9	190
35°	1542	33	4	6	8	925
45°	1592	20	3	6	8	1207
55°	1020	5	2	6	8	868
65°	89	0	2	5	7	160
75°	1	0	2	4	6	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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	17.4	17.4	17.8	17.8	17.4	17.8	17.8	17.8	17.0	16.7	15.9
5°	18.2	18.2	18.2	18.5	18.2	18.2	17.8	17.4	16.7	15.6	15.2
7.5°	18.9	18.9	18.5	18.9	18.5	18.5	17.8	17.0	15.9	14.8	14.1
10°	19.6	19.6	19.3	19.3	18.9	18.9	17.4	16.3	14.5	13.3	13.0
12.5°	21.9	21.9	21.5	21.1	20.4	20.0	17.0	15.2	13.0	11.9	11.5
15°	28.2	27.8	27.1	25.9	24.1	23.7	17.0	14.1	11.9	10.7	10.7
17.5°	38.5	38.2	37.1	34.1	30.8	29.7	17.0	12.6	10.4	9.6	9.6
20°	68.9	66.0	60.4	53.0	45.2	41.1	18.2	11.1	8.9	8.5	8.9
21°	90.1	87.1	80.1	67.8	54.1	49.7	18.9	10.7	8.5	8.2	8.9
22°	122.7	119.3	104.9	88.2	68.6	60.8	19.3	10.0	7.8	7.8	8.5
23°	171.2	165.7	141.2	114.5	85.6	74.5	20.0	9.6	7.4	7.8	8.2
24°	224.2	219.4	191.6	151.6	109.3	93.4	20.8	9.3	7.0	7.0	7.8
25°	308.7	303.2	253.9	191.2	138.6	112.3	21.9	8.5	6.7	6.7	7.8
26°	418.1	392.5	326.9	246.5	170.9	140.8	23.0	8.2	6.3	6.7	7.4
27°	521.9	500.7	427.0	316.2	211.3	173.1	24.5	7.8	5.9	6.3	7.4
28°	658.3	628.6	535.6	399.9	266.1	209.4	25.9	7.4	5.6	6.3	7.0
29°	811.0	769.4	657.1	494.1	328.0	250.2	27.4	7.0	5.2	5.9	7.0
30°	939.2	900.3	788.0	605.6	399.2	303.9	28.9	6.7	4.8	5.9	7.0
31°	1089.7	1030.7	894.7	700.1	460.3	357.7	30.4	5.9	4.4	5.6	6.7
32°	1211.6	1170.5	1025.9	806.9	540.8	417.0	31.5	5.6	4.4	5.6	6.7
33°	1329.5	1274.3	1134.5	909.2	613.4	477.8	32.6	5.2	4.1	5.2	6.7
34°	1442.2	1391.4	1237.2	991.8	682.0	535.6	33.4	4.4	4.1	5.2	6.3
35°	1541.5	1482.5	1327.6	1072.6	752.4	588.2	33.4	4.1	3.7	4.8	6.3
36°	1606.0	1563.7	1406.2	1152.3	816.1	638.2	33.4	3.7	3.3	4.8	5.9
37°	1661.2	1611.9	1469.2	1213.5	863.2	678.3	33.4	3.3	3.3	4.8	5.9
38°	1683.8	1641.6	1512.6	1267.6	907.3	719.0	33.0	3.0	3.0	4.4	5.9
39°	1692.7	1654.9	1545.2	1306.5	939.9	746.5	32.2	2.6	3.0	4.4	5.9
40°	1681.2	1652.7	1561.9	1331.7	965.9	766.5	31.1	2.2	2.6	4.4	5.9
42.5°	1633.8	1614.9	1558.2	1356.9	988.1	781.3	27.1	1.5	2.6	4.1	5.9
45°	1591.5	1570.8	1520.7	1330.6	959.2	752.0	20.4	0.7	2.6	4.1	5.9
47.5°	1509.6	1496.6	1457.3	1263.5	895.8	686.0	14.5	0.4	2.2	3.7	5.6
50°	1345.4	1333.2	1281.3	1097.1	770.6	580.0	10.4	0.4	1.9	3.7	5.6
52.5°	1198.3	1185.3	1110.8	912.1	591.9	425.1	6.7	0.4	1.9	3.7	5.6
55°	1020.4	997.8	899.9	692.4	419.6	285.0	4.8	0.4	1.9	3.3	5.6
57.5°	755.4	722.4	634.9	472.2	241.7	154.6	2.6	0.4	1.9	3.3	5.6
60°	513.7	494.1	397.3	249.1	103.0	65.2	1.1	0.4	1.9	3.3	5.2
62.5°	311.3	286.5	199.8	106.0	44.5	29.7	0.0	0.7	1.9	3.3	5.2
65°	88.6	78.6	52.3	24.1	12.6	9.6	0.0	0.7	1.9	3.3	5.2
67.5°	3.0	3.0	3.0	2.6	1.9	1.9	0.4	0.7	1.9	3.3	4.8
70°	1.1	1.1	1.1	0.7	0.7	0.4	0.4	0.7	1.9	3.0	4.8
72.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.7	1.5	2.6	4.4
75°	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.5	2.6	3.7
77.5°	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.5	2.2	3.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.2	3.0



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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	1.1	1.5	1.5	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.5	1.1	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.1	1.1	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°	17.0	17.0
2.5°	15.9	15.9
5°	14.8	14.8
7.5°	13.7	13.7
10°	12.6	12.6
12.5°	11.9	11.9
15°	10.7	11.1
17.5°	10.0	10.4
20°	9.6	10.0
21°	9.6	10.0
22°	9.3	9.6
23°	9.3	9.6
24°	8.9	9.3
25°	8.5	8.9
26°	8.5	8.9
27°	8.5	8.9
28°	8.2	8.9
29°	8.2	8.5
30°	8.2	8.5
31°	7.8	8.5
32°	7.8	8.5
33°	7.8	8.2
34°	7.4	8.2
35°	7.4	8.2
36°	7.4	8.2
37°	7.4	7.8
38°	7.4	8.2
39°	7.4	7.8
40°	7.4	7.8
42.5°	7.4	7.8
45°	7.4	7.8
47.5°	7.4	8.2
50°	7.4	8.2
52.5°	7.4	8.2
55°	7.4	8.2
57.5°	7.4	7.8
60°	7.4	7.8
62.5°	7.0	7.8
65°	7.0	7.4
67.5°	7.0	7.4
70°	6.7	7.0
72.5°	6.3	6.7
75°	5.6	6.3
77.5°	5.2	5.6
80°	4.4	4.8



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	3.7	3.7
85°	2.6	3.0
87.5°	1.5	1.5
90°	0.0	0.0

(END OF REPORT)