

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: P1345206

Luminaire Tested: P3A13R30B2750DE010 E3CA451MW_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345206
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 E3CA451MW_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 80CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

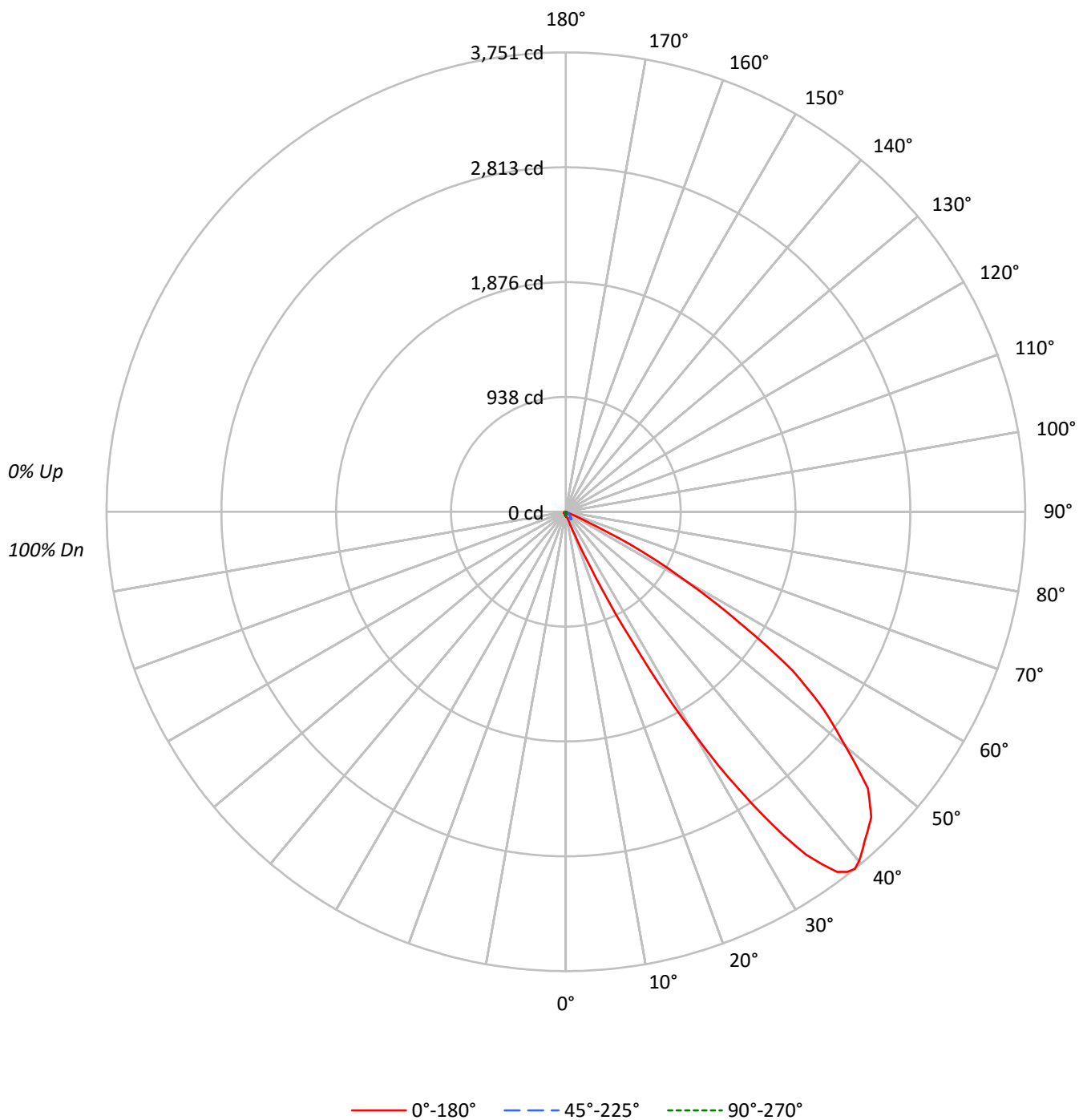
Lumens per Lamp: N/A
Luminaire Lumens: 975.0 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	8289	8289	8289	8289	8289
5°	8849	8673	8144	7418	7242
10°	9686	8595	7125	6390	6212
15°	14166	8581	5971	5403	5585
20°	35656	9381	4597	4597	5180
25°	165518	11735	3581	4162	4766
30°	526967	16230	2709	3950	4786
35°	914383	19782	2195	3748	4845
40°	1066398	19751	1632	3750	4924
45°	1093664	14017	1768	4062	5334
50°	1017041	7846	1399	4196	6175
55°	864390	4091	1567	4702	6920
60°	499214	1096	1798	5043	7543
65°	101853	0	2127	5967	8509
70°	1603	513	2629	6860	10002
75°	1356	678	2796	6947	11861
80°	1010	1010	4167	8334	13512
85°	0	2013	8303	8303	16605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1093664 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.4
10°-20°	9.8	1.0
20°-30°	56.2	5.8
30°-40°	262.6	26.9
40°-50°	371.4	38.1
50°-60°	228.5	23.4
60°-70°	34.8	3.6
70°-80°	5.5	0.6
80°-90°	2.8	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°	69.5	7.1
0°-40°	332.1	34.1
0°-60°	931.9	95.6
0°-90°	975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	975.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	40	39	37	34	33	4
15°	62	38	26	24	25	22
25°	684	48	15	17	20	421
35°	3416	74	8	14	18	2050
45°	3527	45	6	13	17	2674
55°	2261	11	4	12	18	1924
65°	196	0	4	12	16	355
75°	2	1	3	8	14	2
85°	0	1	3	3	7	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°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
2.5°	38.6	38.6	39.4	39.4	38.6	39.4	39.4	39.4	37.8	37.0	35.3
5°	40.2	40.2	40.2	41.1	40.2	40.2	39.4	38.6	37.0	34.5	33.7
7.5°	41.9	41.9	41.1	41.9	41.1	41.1	39.4	37.8	35.3	32.9	31.2
10°	43.5	43.5	42.7	42.7	41.9	41.9	38.6	36.1	32.0	29.6	28.7
12.5°	48.5	48.5	47.6	46.8	45.2	44.4	37.8	33.7	28.7	26.3	25.5
15°	62.4	61.6	60.0	57.5	53.4	52.6	37.8	31.2	26.3	23.8	23.8
17.5°	85.4	84.6	82.1	75.6	68.2	65.7	37.8	27.9	23.0	21.4	21.4
20°	152.8	146.2	133.9	117.4	100.2	91.2	40.2	24.6	19.7	18.9	19.7
21°	199.6	193.0	177.4	150.3	119.9	110.1	41.9	23.8	18.9	18.1	19.7
22°	271.8	264.5	232.4	195.5	151.9	134.7	42.7	22.2	17.2	17.2	18.9
23°	379.4	367.1	312.9	253.8	189.7	165.1	44.4	21.4	16.4	17.2	18.1
24°	496.9	486.2	424.6	335.9	242.3	207.0	46.0	20.5	15.6	15.6	17.2
25°	684.1	671.8	562.6	423.8	307.2	248.9	48.5	18.9	14.8	14.8	17.2
26°	926.4	869.8	724.4	546.2	378.6	312.1	50.9	18.1	14.0	14.8	16.4
27°	1156.4	1109.6	946.1	700.6	468.1	383.5	54.2	17.2	13.1	14.0	16.4
28°	1458.6	1392.9	1186.8	886.2	589.7	464.0	57.5	16.4	12.3	14.0	15.6
29°	1797.0	1705.0	1456.2	1094.8	726.8	554.4	60.8	15.6	11.5	13.1	15.6
30°	2081.2	1994.9	1746.1	1342.0	884.5	673.5	64.1	14.8	10.7	13.1	15.6
31°	2414.6	2284.0	1982.6	1551.4	1020.1	792.6	67.3	13.1	9.9	12.3	14.8
32°	2684.8	2593.7	2273.4	1788.0	1198.3	924.0	69.8	12.3	9.9	12.3	14.8
33°	2946.0	2823.6	2514.0	2014.6	1359.2	1058.7	72.3	11.5	9.0	11.5	14.8
34°	3195.7	3083.2	2741.5	2197.8	1511.2	1186.8	73.9	9.9	9.0	11.5	14.0
35°	3415.8	3285.2	2941.9	2376.8	1667.2	1303.4	73.9	9.0	8.2	10.7	14.0
36°	3558.7	3465.1	3116.0	2553.4	1808.5	1414.3	73.9	8.2	7.4	10.7	13.1
37°	3681.1	3571.8	3255.6	2688.9	1912.8	1503.0	73.9	7.4	7.4	10.7	13.1
38°	3731.2	3637.5	3351.7	2808.8	2010.5	1593.3	73.1	6.6	6.6	9.9	13.1
39°	3750.9	3667.1	3424.0	2895.1	2082.8	1654.1	71.5	5.7	6.6	9.9	13.1
40°	3725.4	3662.2	3461.0	2950.9	2140.3	1698.4	69.0	4.9	5.7	9.9	13.1
42.5°	3620.3	3578.4	3452.7	3006.8	2189.6	1731.3	60.0	3.3	5.7	9.0	13.1
45°	3526.7	3480.7	3369.8	2948.5	2125.5	1666.4	45.2	1.6	5.7	9.0	13.1
47.5°	3345.2	3316.4	3229.3	2799.8	1985.1	1520.2	32.0	0.8	4.9	8.2	12.3
50°	2981.3	2954.2	2839.2	2431.0	1707.5	1285.3	23.0	0.8	4.1	8.2	12.3
52.5°	2655.3	2626.5	2461.4	2021.2	1311.6	942.0	14.8	0.8	4.1	8.2	12.3
55°	2261.0	2210.9	1994.1	1534.2	929.7	631.6	10.7	0.8	4.1	7.4	12.3
57.5°	1673.8	1600.7	1406.9	1046.3	535.5	342.5	5.7	0.8	4.1	7.4	12.3
60°	1138.3	1094.8	880.4	551.9	228.3	144.5	2.5	0.8	4.1	7.4	11.5
62.5°	689.9	634.9	442.7	234.9	98.6	65.7	0.0	1.6	4.1	7.4	11.5
65°	196.3	174.1	115.8	53.4	27.9	21.4	0.0	1.6	4.1	7.4	11.5
67.5°	6.6	6.6	6.6	5.7	4.1	4.1	0.8	1.6	4.1	7.4	10.7
70°	2.5	2.5	2.5	1.6	1.6	0.8	0.8	1.6	4.1	6.6	10.7
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	1.6	3.3	5.7	9.9
75°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.5	3.3	5.7	8.2
77.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.5	3.3	4.9	8.2
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.5	3.3	4.9	6.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	2.5	3.3	3.3	4.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.3	2.5	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	2.5	2.5	1.6
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°	37.8	37.8
2.5°	35.3	35.3
5°	32.9	32.9
7.5°	30.4	30.4
10°	27.9	27.9
12.5°	26.3	26.3
15°	23.8	24.6
17.5°	22.2	23.0
20°	21.4	22.2
21°	21.4	22.2
22°	20.5	21.4
23°	20.5	21.4
24°	19.7	20.5
25°	18.9	19.7
26°	18.9	19.7
27°	18.9	19.7
28°	18.1	19.7
29°	18.1	18.9
30°	18.1	18.9
31°	17.2	18.9
32°	17.2	18.9
33°	17.2	18.1
34°	16.4	18.1
35°	16.4	18.1
36°	16.4	18.1
37°	16.4	17.2
38°	16.4	18.1
39°	16.4	17.2
40°	16.4	17.2
42.5°	16.4	17.2
45°	16.4	17.2
47.5°	16.4	18.1
50°	16.4	18.1
52.5°	16.4	18.1
55°	16.4	18.1
57.5°	16.4	17.2
60°	16.4	17.2
62.5°	15.6	17.2
65°	15.6	16.4
67.5°	15.6	16.4
70°	14.8	15.6
72.5°	14.0	14.8
75°	12.3	14.0
77.5°	11.5	12.3
80°	9.9	10.7



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	8.2	8.2
85°	5.7	6.6
87.5°	3.3	3.3
90°	0.0	0.0

(END OF REPORT)