

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: P1344698

Luminaire Tested: P3A13R25B2750DE010 E3CA451MW_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R25B2750DE010 E3CA451MW_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 5000K CCT AND, 80CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

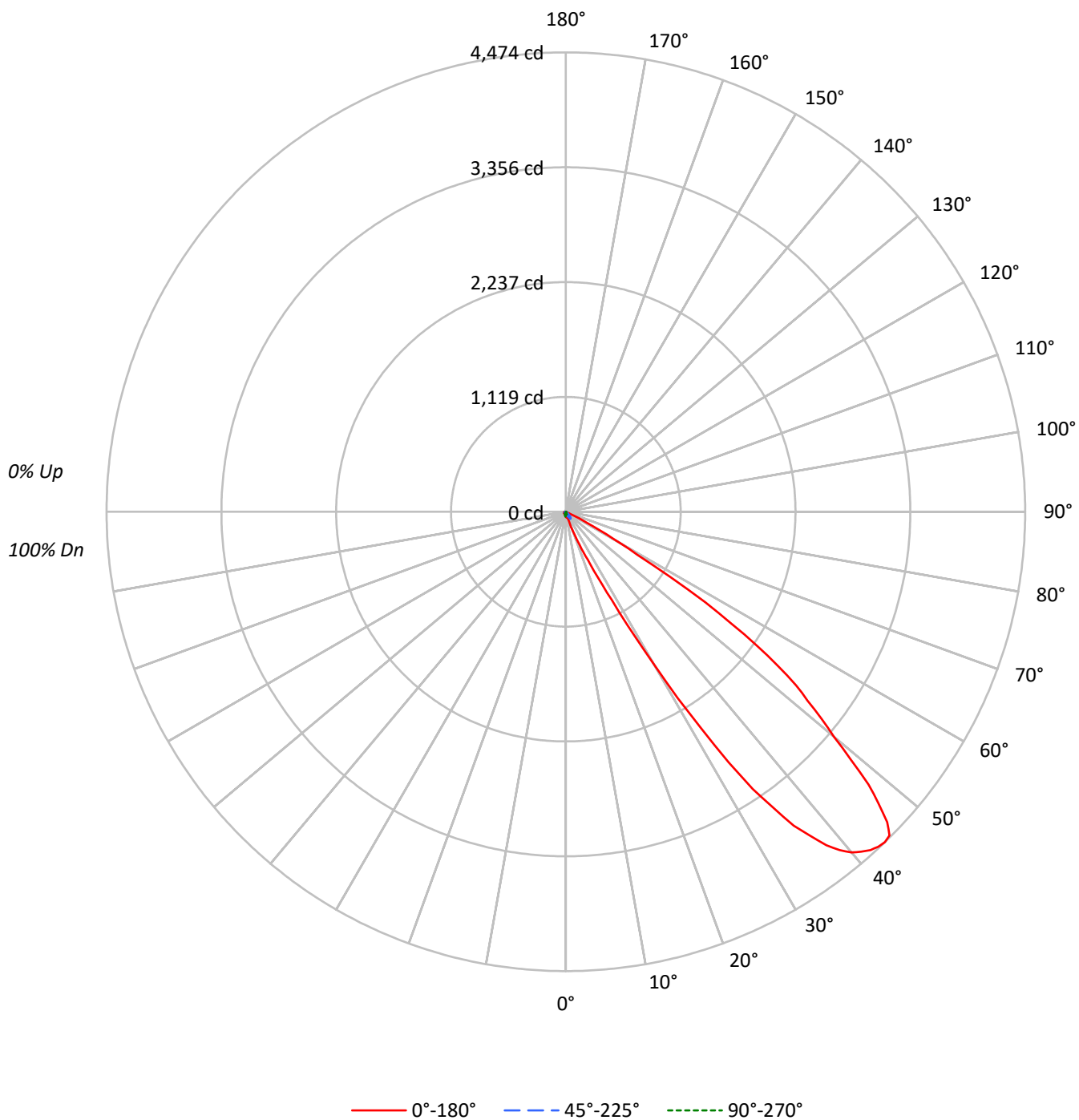
Lumens per Lamp: N/A
Luminaire Lumens: 933.0 lumens
Efficiency: N/A
Efficacy: 48.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	101	97	100	97	94	96	94	92	92	91	89	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10438	10438	10438	10438	10438
5°	11930	11380	10125	9047	8849
10°	11890	10777	8595	7504	7504
15°	13235	9330	6720	6334	6720
20°	46741	9194	5180	5367	5951
25°	134476	11710	4162	4960	5758
30°	429079	18079	3317	4786	5824
35°	939787	21308	2864	4604	5943
40°	1239723	19265	2347	4695	6355
45°	1382500	13490	2295	5086	6884
50°	1163731	6993	2252	5322	7573
55°	870086	2829	2179	5964	8487
60°	269321	702	2149	6491	9341
65°	22986	0	2542	6797	10222
70°	1603	513	2629	7886	11605
75°	1356	678	3474	8388	13217
80°	1010	1010	5177	9345	15532
85°	2013	2013	8303	10315	16605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1382500 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.5
10°-20°	11.0	1.2
20°-30°	51.6	5.5
30°-40°	248.5	26.6
40°-50°	389.5	41.8
50°-60°	199.7	21.4
60°-70°	18.8	2.0
70°-80°	6.3	0.7
80°-90°	3.2	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°	66.9	7.2
0°-40°	315.4	33.8
0°-60°	904.6	97.0
0°-90°	933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	54	52	46	41	40	5
15°	58	41	30	28	30	25
25°	556	48	17	20	24	345
35°	3511	80	11	17	22	2131
45°	4458	44	7	16	22	3262
55°	2276	7	6	16	22	1895
65°	44	0	5	13	20	139
75°	2	1	4	10	16	2
85°	1	1	3	4	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
2.5°	51.7	51.7	51.7	51.7	51.7	51.7	50.9	50.9	51.7	50.9	50.9
5°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	53.4	53.4	53.4	51.7
7.5°	55.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	53.4	53.4	50.9
10°	53.4	53.4	53.4	53.4	52.5	52.5	52.5	51.7	51.7	51.7	48.4
12.5°	53.4	53.4	53.4	53.4	52.5	52.5	51.7	51.7	50.9	50.1	44.3
15°	58.3	58.3	58.3	57.5	56.7	55.8	55.0	54.2	53.4	51.7	41.1
17.5°	85.4	82.9	82.1	78.8	74.7	70.6	67.3	64.0	60.8	58.3	39.4
20°	200.3	199.5	195.4	185.6	174.9	162.6	150.2	136.3	116.6	103.4	39.4
22.5°	347.3	342.4	335.0	327.6	308.7	286.5	263.5	237.3	211.8	184.7	41.9
25°	555.8	567.3	542.7	523.0	490.1	449.9	406.4	370.3	324.3	281.6	48.4
27.5°	966.3	973.7	925.3	861.2	784.9	700.3	618.2	556.7	479.5	408.9	60.8
30°	1694.6	1702.0	1620.7	1484.4	1326.8	1188.0	1000.0	835.0	683.1	565.7	71.4
31°	2114.9	2057.5	1963.1	1830.9	1631.4	1422.0	1196.2	996.7	804.6	650.2	74.7
32°	2480.3	2475.4	2365.4	2165.0	1964.7	1706.1	1426.1	1165.8	930.2	735.6	77.2
33°	2911.3	2878.5	2723.3	2534.5	2269.3	2009.0	1647.8	1350.6	1059.1	830.9	78.8
34°	3257.0	3168.3	3104.3	2888.3	2608.4	2276.7	1890.0	1546.0	1220.0	922.8	79.6
35°	3510.7	3491.8	3367.0	3165.8	2881.0	2541.9	2151.1	1748.8	1354.7	1029.6	79.6
36°	3779.1	3720.9	3599.3	3417.1	3139.6	2789.0	2350.6	1924.5	1511.5	1125.6	78.8
37°	3947.5	3913.0	3792.3	3604.3	3332.5	2997.5	2573.9	2110.0	1636.3	1221.7	77.2
38°	4120.7	4050.9	3931.9	3752.1	3485.2	3170.8	2735.6	2252.9	1751.2	1306.2	74.7
39°	4240.6	4168.3	4046.8	3867.8	3606.7	3294.7	2863.7	2374.4	1851.4	1369.5	71.4
40°	4330.9	4261.1	4137.9	3954.0	3696.2	3392.4	2970.4	2481.9	1935.1	1424.5	67.3
41°	4386.7	4321.8	4199.5	4016.4	3757.8	3448.3	3040.2	2551.7	1991.8	1461.4	63.2
42°	4433.5	4367.0	4242.2	4055.0	3795.6	3495.9	3082.9	2596.1	2030.4	1480.3	59.9
43°	4459.8	4393.3	4271.8	4080.5	3818.6	3518.1	3105.9	2616.6	2043.5	1477.8	54.2
44°	4474.5	4405.6	4283.3	4092.0	3828.4	3523.8	3107.6	2612.5	2034.5	1458.1	49.3
45°	4458.1	4390.0	4271.8	4080.5	3811.2	3505.7	3091.1	2590.3	2000.0	1419.5	43.5
46°	4351.4	4298.9	4190.5	4014.8	3757.0	3459.8	3049.3	2547.6	1946.6	1371.9	36.9
47°	4163.4	4121.5	4016.4	3885.9	3652.7	3375.2	2972.1	2466.3	1871.9	1300.5	29.6
48°	3967.2	3905.6	3807.9	3674.1	3477.0	3223.3	2844.8	2347.3	1758.6	1206.9	26.3
49°	3677.3	3641.2	3555.0	3405.6	3242.2	3018.9	2665.0	2194.6	1619.9	1105.1	23.0
50°	3411.3	3386.7	3266.0	3156.0	2982.8	2774.2	2421.2	1993.4	1447.5	978.7	20.5
51°	3203.6	3174.1	3087.0	2949.9	2765.2	2523.0	2190.5	1732.3	1249.6	828.4	16.4
52°	2986.9	2970.4	2893.3	2752.1	2570.6	2329.2	1966.3	1510.7	1057.5	700.3	13.1
53°	2809.5	2785.7	2691.3	2565.7	2369.5	2119.9	1723.3	1304.6	895.7	588.7	11.5
54°	2550.9	2541.1	2480.3	2348.9	2136.3	1864.5	1503.3	1098.5	747.1	499.2	9.9
55°	2275.9	2243.0	2181.4	2077.2	1881.8	1628.1	1248.8	910.5	604.3	420.4	7.4
56°	1940.9	1939.2	1829.2	1742.2	1569.0	1299.7	997.5	711.0	491.0	350.6	6.6
57°	1620.7	1569.0	1463.1	1376.8	1190.5	986.0	740.6	532.8	384.2	284.1	4.9
58°	1198.7	1171.6	1143.7	1017.2	844.8	698.7	528.7	374.4	284.1	216.7	3.3
59°	813.6	812.8	780.0	683.9	584.6	435.1	330.0	254.5	195.4	159.3	2.5
60°	614.1	599.3	533.7	470.4	367.8	275.0	195.4	150.2	121.5	102.6	1.6
62.5°	215.1	223.3	196.2	162.6	124.0	101.8	78.0	63.2	51.7	41.9	0.0
65°	44.3	48.4	41.9	39.4	31.2	27.1	23.8	20.5	17.2	14.8	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	5.7	4.9	4.9	4.9	4.1	4.1	4.1	4.1	3.3	3.3	0.8
70°	2.5	2.5	2.5	2.5	2.5	2.5	1.6	1.6	1.6	1.6	0.8
72.5°	2.5	2.5	2.5	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	47.6	47.6	47.6	47.6	47.6	47.6
2.5°	50.1	48.4	46.0	45.2	44.3	44.3
5°	49.3	46.0	43.5	41.1	40.2	40.2
7.5°	46.8	42.7	39.4	37.8	36.9	36.1
10°	44.3	38.6	35.3	33.7	33.7	33.7
12.5°	39.4	34.5	31.2	30.4	31.2	31.2
15°	35.3	29.6	27.9	27.9	28.7	29.6
17.5°	30.4	26.3	24.6	25.5	26.3	27.1
20°	27.1	22.2	22.2	23.0	25.5	25.5
22.5°	23.8	19.7	19.7	22.2	23.8	24.6
25°	21.3	17.2	18.1	20.5	23.0	23.8
27.5°	18.1	14.8	16.4	19.7	22.2	23.0
30°	15.6	13.1	15.6	18.9	21.3	23.0
31°	14.8	12.3	15.6	18.1	21.3	23.0
32°	13.1	12.3	14.8	18.1	21.3	22.2
33°	12.3	11.5	14.8	18.1	21.3	22.2
34°	11.5	10.7	14.0	18.1	21.3	22.2
35°	9.9	10.7	14.0	17.2	20.5	22.2
36°	9.0	9.9	14.0	17.2	20.5	22.2
37°	8.2	9.9	13.1	17.2	20.5	22.2
38°	7.4	9.0	13.1	17.2	20.5	22.2
39°	6.6	9.0	12.3	17.2	20.5	22.2
40°	5.7	8.2	12.3	16.4	20.5	22.2
41°	5.7	8.2	12.3	16.4	20.5	22.2
42°	4.9	8.2	12.3	16.4	20.5	22.2
43°	4.1	7.4	12.3	16.4	20.5	22.2
44°	3.3	7.4	11.5	16.4	20.5	22.2
45°	3.3	7.4	11.5	16.4	20.5	22.2
46°	2.5	6.6	11.5	16.4	20.5	22.2
47°	1.6	6.6	11.5	15.6	20.5	22.2
48°	1.6	6.6	11.5	15.6	20.5	22.2
49°	1.6	6.6	10.7	15.6	20.5	22.2
50°	1.6	6.6	10.7	15.6	20.5	22.2
51°	0.8	5.7	10.7	15.6	20.5	22.2
52°	0.8	5.7	10.7	15.6	20.5	23.0
53°	0.8	5.7	10.7	15.6	20.5	22.2
54°	0.8	5.7	9.9	15.6	20.5	22.2
55°	0.8	5.7	9.9	15.6	20.5	22.2
56°	0.8	4.9	9.9	14.8	20.5	22.2
57°	1.6	4.9	9.9	14.8	20.5	21.3
58°	1.6	4.9	9.9	14.8	19.7	21.3
59°	1.6	4.9	9.9	14.8	19.7	21.3
60°	1.6	4.9	9.0	14.8	19.7	21.3
62.5°	1.6	4.9	9.0	14.0	18.9	20.5
65°	1.6	4.9	8.2	13.1	18.9	19.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.6	4.1	8.2	12.3	18.1	18.9
70°	2.5	4.1	7.4	12.3	17.2	18.1
72.5°	2.5	4.1	7.4	10.7	15.6	17.2
75°	2.5	4.1	6.6	9.9	14.8	15.6
77.5°	2.5	4.1	5.7	9.0	13.1	14.0
80°	3.3	4.1	4.9	7.4	11.5	12.3
82.5°	3.3	4.1	4.1	5.7	9.0	9.9
85°	2.5	3.3	3.3	4.1	5.7	6.6
87.5°	2.5	3.3	2.5	1.6	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)