

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: P1344695

Luminaire Tested: P3A13R25B2750DE010 E3CA451MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344695
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

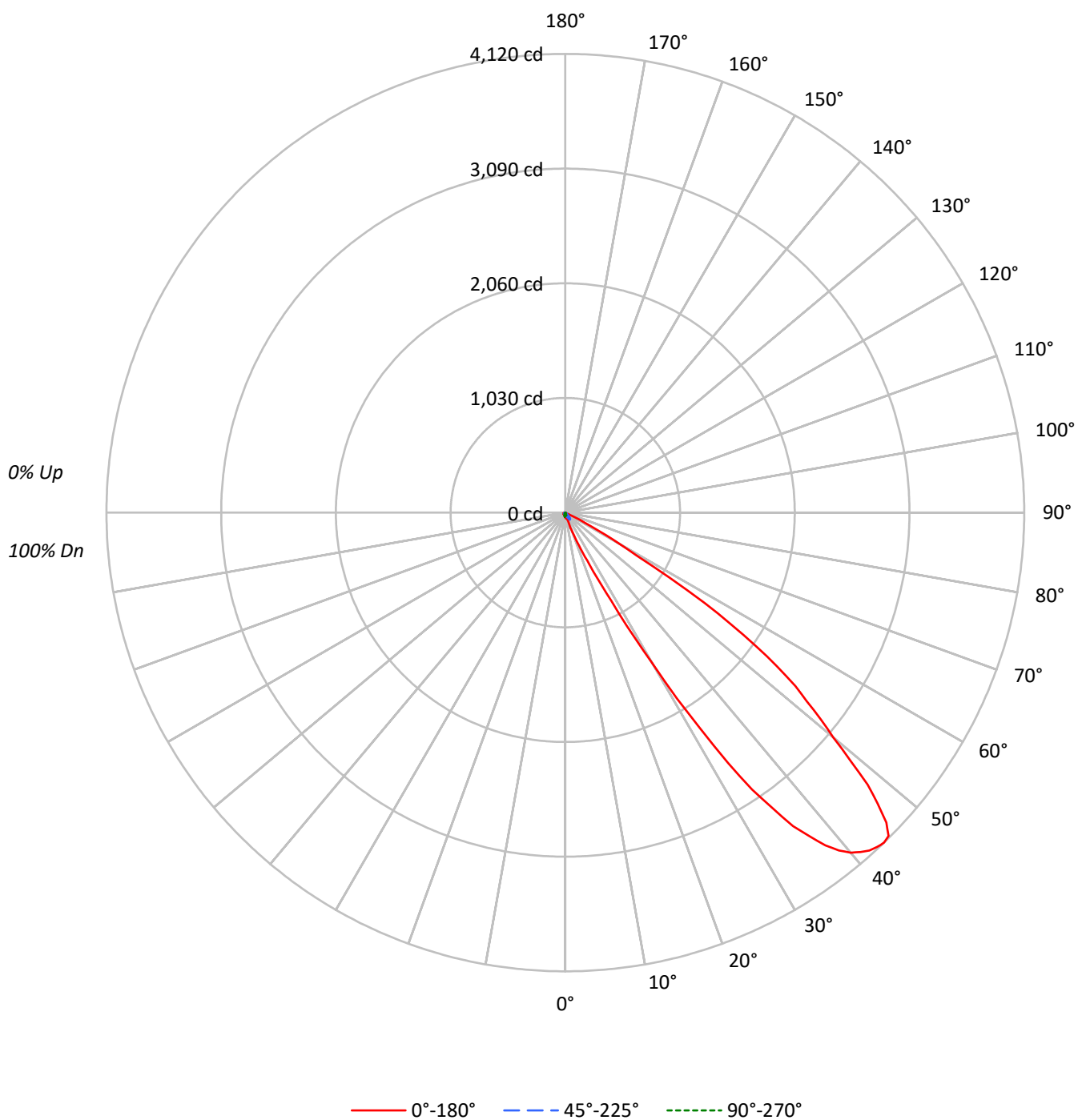
Lumens per Lamp: N/A
Luminaire Lumens: 859.0 lumens
Efficiency: N/A
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9604	9604	9604	9604	9604
5°	10984	10478	9311	8320	8144
10°	10933	9931	7905	6903	6903
15°	12191	8581	6175	5834	6175
20°	43030	8471	4760	4947	5460
25°	123806	10791	3847	4573	5299
30°	395048	16661	3064	4406	5368
35°	865235	19622	2623	4256	5461
40°	1141396	17748	2176	4322	5840
45°	1272845	12435	2109	4683	6326
50°	1071453	6448	2047	4912	6959
55°	801080	2600	2026	5505	7799
60°	247963	658	1974	5964	8640
65°	21170	0	2335	6278	9391
70°	1475	513	2436	7245	10643
75°	1271	678	3219	7710	12200
80°	1010	1010	4799	8587	14269
85°	2013	2013	7548	9561	15096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1272845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.5
10°-20°	10.1	1.2
20°-30°	47.5	5.5
30°-40°	228.8	26.6
40°-50°	358.6	41.8
50°-60°	183.9	21.4
60°-70°	17.3	2.0
70°-80°	5.9	0.7
80°-90°	2.9	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°	61.6	7.2
0°-40°	290.4	33.8
0°-60°	832.9	97.0
0°-90°	859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	50	48	42	38	37	5
15°	54	38	27	26	27	23
25°	512	45	16	19	22	317
35°	3232	73	10	16	20	1962
45°	4104	40	7	15	20	3003
55°	2095	7	5	14	20	1744
65°	41	0	4	12	18	128
75°	2	1	4	9	14	2
85°	1	1	3	4	6	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°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
2.5°	47.6	47.6	47.6	47.6	47.6	47.6	46.9	46.9	47.6	46.9	46.9
5°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.1	49.1	49.1	47.6
7.5°	50.6	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.1	49.1	46.9
10°	49.1	49.1	49.1	49.1	48.4	48.4	48.4	47.6	47.6	47.6	44.6
12.5°	49.1	49.1	49.1	49.1	48.4	48.4	47.6	47.6	46.9	46.1	40.8
15°	53.7	53.7	53.7	52.9	52.2	51.4	50.6	49.9	49.1	47.6	37.8
17.5°	78.6	76.3	75.6	72.6	68.8	65.0	62.0	59.0	55.9	53.7	36.3
20°	184.4	183.7	179.9	170.8	161.0	149.7	138.3	125.5	107.3	95.2	36.3
22.5°	319.7	315.2	308.4	301.6	284.2	263.8	242.6	218.5	195.0	170.1	38.6
25°	511.7	522.3	499.6	481.5	451.3	414.2	374.2	340.9	298.6	259.3	44.6
27.5°	889.7	896.5	851.9	792.9	722.6	644.8	569.2	512.5	441.4	376.4	55.9
30°	1560.2	1567.0	1492.1	1366.7	1221.5	1093.8	920.7	768.8	628.9	520.8	65.8
31°	1947.2	1894.3	1807.4	1685.7	1502.0	1309.2	1101.3	917.7	740.8	598.7	68.8
32°	2283.6	2279.0	2177.7	1993.3	1808.9	1570.8	1313.0	1073.4	856.4	677.3	71.1
33°	2680.4	2650.2	2507.3	2333.5	2089.3	1849.7	1517.1	1243.5	975.1	765.0	72.6
34°	2998.7	2917.0	2858.1	2659.3	2401.5	2096.1	1740.1	1423.4	1123.3	849.6	73.3
35°	3232.2	3214.8	3099.9	2914.7	2652.5	2340.3	1980.5	1610.1	1247.2	947.9	73.3
36°	3479.4	3425.7	3313.9	3146.1	2890.6	2567.8	2164.1	1771.8	1391.6	1036.3	72.6
37°	3634.4	3602.6	3491.5	3318.4	3068.2	2759.8	2369.7	1942.7	1506.5	1124.8	71.1
38°	3793.9	3729.6	3620.0	3454.5	3208.8	2919.3	2518.7	2074.2	1612.3	1202.6	68.8
39°	3904.2	3837.7	3725.8	3561.0	3320.7	3033.4	2636.6	2186.1	1704.6	1260.8	65.8
40°	3987.4	3923.1	3809.7	3640.4	3403.1	3123.4	2734.8	2285.1	1781.7	1311.5	62.0
41°	4038.8	3979.1	3866.4	3697.9	3459.8	3174.8	2799.1	2349.3	1833.8	1345.5	58.2
42°	4081.9	4020.6	3905.7	3733.4	3494.5	3218.6	2838.4	2390.2	1869.3	1362.9	55.2
43°	4106.0	4044.8	3932.9	3756.8	3515.7	3239.0	2859.6	2409.1	1881.4	1360.6	49.9
44°	4119.7	4056.2	3943.5	3767.4	3524.8	3244.3	2861.1	2405.3	1873.1	1342.5	45.4
45°	4104.5	4041.8	3932.9	3756.8	3508.9	3227.7	2846.0	2384.9	1841.4	1307.0	40.1
46°	4006.3	3957.9	3858.1	3696.3	3459.0	3185.4	2807.4	2345.6	1792.2	1263.1	34.0
47°	3833.2	3794.6	3697.9	3577.7	3363.0	3107.5	2736.4	2270.7	1723.5	1197.3	27.2
48°	3652.5	3595.8	3505.9	3382.7	3201.2	2967.7	2619.2	2161.1	1619.1	1111.2	24.2
49°	3385.7	3352.4	3273.0	3135.5	2985.0	2779.4	2453.7	2020.5	1491.4	1017.4	21.2
50°	3140.8	3118.1	3007.0	2905.7	2746.2	2554.2	2229.1	1835.3	1332.7	901.0	18.9
51°	2949.5	2922.3	2842.2	2715.9	2545.9	2322.9	2016.7	1594.9	1150.5	762.7	15.1
52°	2750.0	2734.8	2663.8	2533.8	2366.7	2144.5	1810.4	1390.9	973.6	644.8	12.1
53°	2586.7	2564.8	2477.8	2362.2	2181.5	1951.7	1586.6	1201.1	824.7	542.0	10.6
54°	2348.6	2339.5	2283.6	2162.6	1966.9	1716.6	1384.1	1011.4	687.9	459.6	9.1
55°	2095.4	2065.1	2008.4	1912.4	1732.5	1498.9	1149.7	838.3	556.3	387.0	6.8
56°	1786.9	1785.4	1684.1	1604.0	1444.5	1196.6	918.4	654.6	452.0	322.8	6.0
57°	1492.1	1444.5	1347.0	1267.6	1096.1	907.8	681.8	490.6	353.8	261.5	4.5
58°	1103.6	1078.7	1053.0	936.6	777.8	643.3	486.8	344.7	261.5	199.6	3.0
59°	749.1	748.3	718.1	629.7	538.2	400.6	303.9	234.3	179.9	146.6	2.3
60°	565.4	551.8	491.3	433.1	338.6	253.2	179.9	138.3	111.9	94.5	1.5
62.5°	198.0	205.6	180.7	149.7	114.1	93.7	71.8	58.2	47.6	38.6	0.0
65°	40.8	44.6	38.6	36.3	28.7	24.9	21.9	18.9	15.9	13.6	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°	5.3	4.5	4.5	4.5	3.8	3.8	3.8	3.8	3.0	3.0	0.8
70°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5	0.8
72.5°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	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	1.5
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°	43.8	43.8	43.8	43.8	43.8	43.8
2.5°	46.1	44.6	42.3	41.6	40.8	40.8
5°	45.4	42.3	40.1	37.8	37.0	37.0
7.5°	43.1	39.3	36.3	34.8	34.0	33.3
10°	40.8	35.5	32.5	31.0	31.0	31.0
12.5°	36.3	31.7	28.7	28.0	28.7	28.7
15°	32.5	27.2	25.7	25.7	26.5	27.2
17.5°	28.0	24.2	22.7	23.4	24.2	24.9
20°	24.9	20.4	20.4	21.2	23.4	23.4
22.5°	21.9	18.1	18.1	20.4	21.9	22.7
25°	19.7	15.9	16.6	18.9	21.2	21.9
27.5°	16.6	13.6	15.1	18.1	20.4	21.2
30°	14.4	12.1	14.4	17.4	19.7	21.2
31°	13.6	11.3	14.4	16.6	19.7	21.2
32°	12.1	11.3	13.6	16.6	19.7	20.4
33°	11.3	10.6	13.6	16.6	19.7	20.4
34°	10.6	9.8	12.9	16.6	19.7	20.4
35°	9.1	9.8	12.9	15.9	18.9	20.4
36°	8.3	9.1	12.9	15.9	18.9	20.4
37°	7.6	9.1	12.1	15.9	18.9	20.4
38°	6.8	8.3	12.1	15.9	18.9	20.4
39°	6.0	8.3	11.3	15.9	18.9	20.4
40°	5.3	7.6	11.3	15.1	18.9	20.4
41°	5.3	7.6	11.3	15.1	18.9	20.4
42°	4.5	7.6	11.3	15.1	18.9	20.4
43°	3.8	6.8	11.3	15.1	18.9	20.4
44°	3.0	6.8	10.6	15.1	18.9	20.4
45°	3.0	6.8	10.6	15.1	18.9	20.4
46°	2.3	6.0	10.6	15.1	18.9	20.4
47°	1.5	6.0	10.6	14.4	18.9	20.4
48°	1.5	6.0	10.6	14.4	18.9	20.4
49°	1.5	6.0	9.8	14.4	18.9	20.4
50°	1.5	6.0	9.8	14.4	18.9	20.4
51°	0.8	5.3	9.8	14.4	18.9	20.4
52°	0.8	5.3	9.8	14.4	18.9	21.2
53°	0.8	5.3	9.8	14.4	18.9	20.4
54°	0.8	5.3	9.1	14.4	18.9	20.4
55°	0.8	5.3	9.1	14.4	18.9	20.4
56°	0.8	4.5	9.1	13.6	18.9	20.4
57°	1.5	4.5	9.1	13.6	18.9	19.7
58°	1.5	4.5	9.1	13.6	18.1	19.7
59°	1.5	4.5	9.1	13.6	18.1	19.7
60°	1.5	4.5	8.3	13.6	18.1	19.7
62.5°	1.5	4.5	8.3	12.9	17.4	18.9
65°	1.5	4.5	7.6	12.1	17.4	18.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.5	3.8	7.6	11.3	16.6	17.4
70°	2.3	3.8	6.8	11.3	15.9	16.6
72.5°	2.3	3.8	6.8	9.8	14.4	15.9
75°	2.3	3.8	6.0	9.1	13.6	14.4
77.5°	2.3	3.8	5.3	8.3	12.1	12.9
80°	3.0	3.8	4.5	6.8	10.6	11.3
82.5°	3.0	3.8	3.8	5.3	8.3	9.1
85°	2.3	3.0	3.0	3.8	5.3	6.0
87.5°	2.3	3.0	2.3	1.5	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)