

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: P1345203

Luminaire Tested: P3A13R30B2750DE010 E3CA451MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345203
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

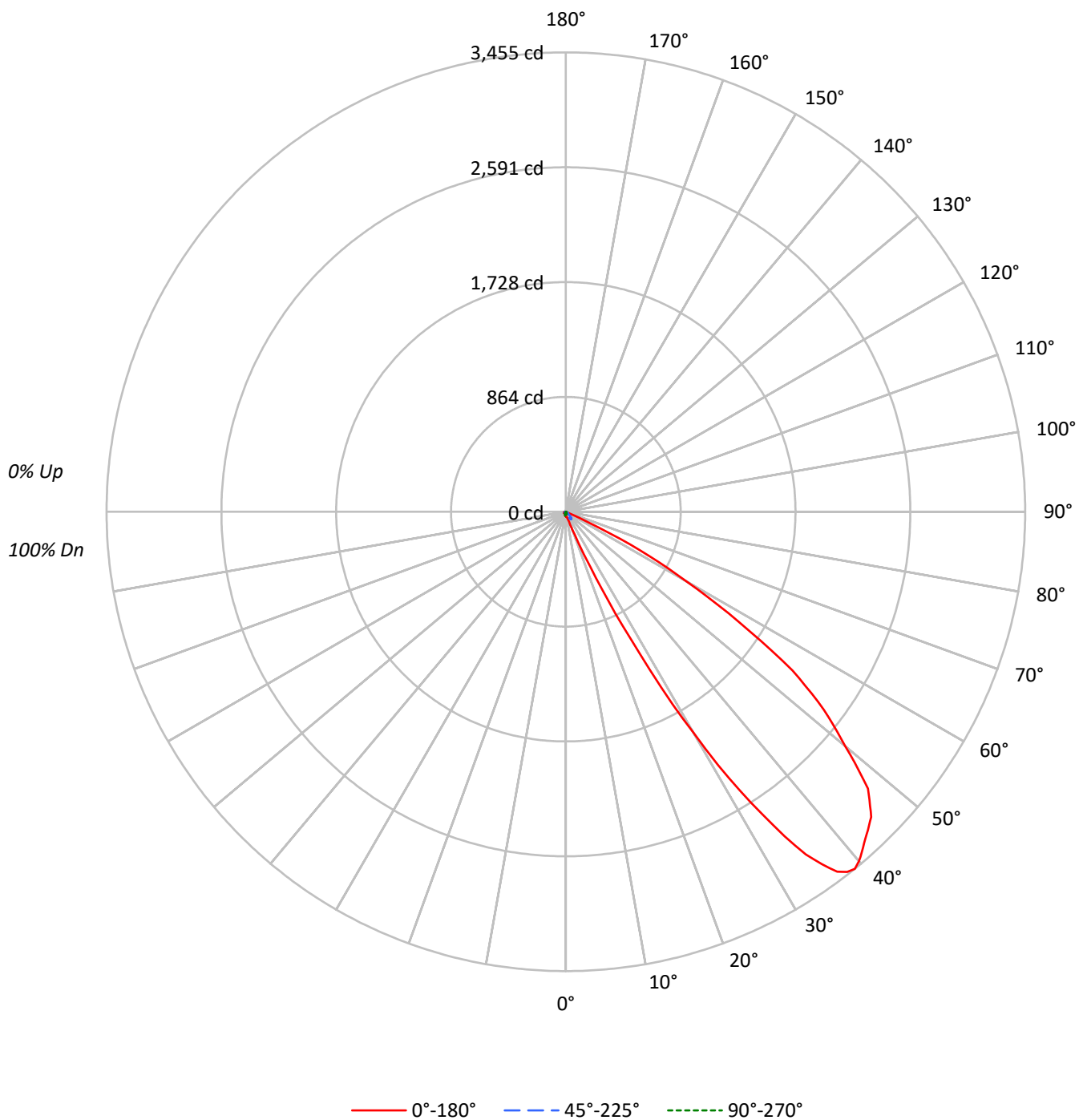
Lumens per Lamp: N/A
Luminaire Lumens: 898.0 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7631	7631	7631	7631	7631
5°	8166	7990	7484	6824	6670
10°	8929	7927	6569	5901	5722
15°	13053	7900	5494	4972	5153
20°	32833	8657	4247	4247	4760
25°	152452	10791	3291	3847	4403
30°	485340	14939	2481	3646	4406
35°	842160	18230	2034	3453	4444
40°	982183	18177	1517	3464	4551
45°	1007267	12901	1644	3752	4931
50°	936737	7232	1296	3855	5663
55°	796148	3747	1453	4320	6346
60°	459788	1009	1667	4649	6973
65°	93810	0	1972	5500	7835
70°	1475	513	2436	6283	9232
75°	1271	678	2542	6439	10929
80°	1010	1010	3788	7703	12375
85°	0	2013	7548	7548	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1007267 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	9.1	1.0
20°-30°	51.8	5.8
30°-40°	241.9	26.9
40°-50°	342.0	38.1
50°-60°	210.4	23.4
60°-70°	32.1	3.6
70°-80°	5.1	0.6
80°-90°	2.5	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°	64.0	7.1
0°-40°	305.9	34.1
0°-60°	858.3	95.6
0°-90°	898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	37	36	34	31	30	4
15°	58	35	24	22	23	20
25°	630	45	14	16	18	388
35°	3146	68	8	13	17	1888
45°	3248	42	5	12	16	2462
55°	2082	10	4	11	17	1772
65°	181	0	4	11	15	327
75°	2	1	3	8	13	2
85°	0	1	3	3	6	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°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
2.5°	35.6	35.6	36.3	36.3	35.6	36.3	36.3	36.3	34.8	34.0	32.5
5°	37.1	37.1	37.1	37.8	37.1	37.1	36.3	35.6	34.0	31.8	31.0
7.5°	38.6	38.6	37.8	38.6	37.8	37.8	36.3	34.8	32.5	30.3	28.7
10°	40.1	40.1	39.3	39.3	38.6	38.6	35.6	33.3	29.5	27.2	26.5
12.5°	44.6	44.6	43.9	43.1	41.6	40.8	34.8	31.0	26.5	24.2	23.4
15°	57.5	56.7	55.2	53.0	49.2	48.4	34.8	28.7	24.2	21.9	21.9
17.5°	78.7	77.9	75.6	69.6	62.8	60.5	34.8	25.7	21.2	19.7	19.7
20°	140.7	134.6	123.3	108.2	92.3	84.0	37.1	22.7	18.2	17.4	18.2
21°	183.8	177.8	163.4	138.4	110.4	101.4	38.6	21.9	17.4	16.6	18.2
22°	250.4	243.6	214.1	180.0	139.9	124.1	39.3	20.4	15.9	15.9	17.4
23°	349.5	338.1	288.2	233.7	174.7	152.0	40.8	19.7	15.1	15.9	16.6
24°	457.6	447.8	391.1	309.4	223.1	190.6	42.4	18.9	14.4	14.4	15.9
25°	630.1	618.8	518.2	390.3	282.9	229.2	44.6	17.4	13.6	13.6	15.9
26°	853.3	801.1	667.2	503.0	348.7	287.4	46.9	16.6	12.9	13.6	15.1
27°	1065.1	1021.9	871.4	645.2	431.2	353.3	49.9	15.9	12.1	12.9	15.1
28°	1343.4	1282.9	1093.1	816.2	543.1	427.4	53.0	15.1	11.3	12.9	14.4
29°	1655.1	1570.4	1341.2	1008.3	669.4	510.6	56.0	14.4	10.6	12.1	14.4
30°	1916.8	1837.4	1608.2	1236.0	814.7	620.3	59.0	13.6	9.8	12.1	14.4
31°	2223.9	2103.7	1826.0	1428.9	939.5	730.0	62.0	12.1	9.1	11.3	13.6
32°	2472.8	2388.8	2093.8	1646.8	1103.6	851.0	64.3	11.3	9.1	11.3	13.6
33°	2713.3	2600.6	2315.5	1855.5	1251.9	975.0	66.6	10.6	8.3	10.6	13.6
34°	2943.3	2839.7	2525.0	2024.2	1391.8	1093.1	68.1	9.1	8.3	10.6	12.9
35°	3146.0	3025.7	2709.6	2189.1	1535.6	1200.5	68.1	8.3	7.6	9.8	12.9
36°	3277.6	3191.4	2869.9	2351.8	1665.7	1302.6	68.1	7.6	6.8	9.8	12.1
37°	3390.4	3289.7	2998.5	2476.6	1761.7	1384.3	68.1	6.8	6.8	9.8	12.1
38°	3436.5	3350.3	3087.0	2587.0	1851.8	1467.5	67.3	6.1	6.1	9.1	12.1
39°	3454.6	3377.5	3153.6	2666.4	1918.3	1523.5	65.8	5.3	6.1	9.1	12.1
40°	3431.2	3373.0	3187.6	2717.9	1971.3	1564.3	63.5	4.5	5.3	9.1	12.1
42.5°	3334.4	3295.8	3180.1	2769.3	2016.7	1594.6	55.2	3.0	5.3	8.3	12.1
45°	3248.1	3205.8	3103.7	2715.6	1957.7	1534.8	41.6	1.5	5.3	8.3	12.1
47.5°	3081.0	3054.5	2974.3	2578.7	1828.3	1400.2	29.5	0.8	4.5	7.6	11.3
50°	2745.9	2720.9	2615.0	2239.1	1572.6	1183.8	21.2	0.8	3.8	7.6	11.3
52.5°	2445.6	2419.1	2267.0	1861.6	1208.0	867.6	13.6	0.8	3.8	7.6	11.3
55°	2082.5	2036.3	1836.6	1413.0	856.3	581.7	9.8	0.8	3.8	6.8	11.3
57.5°	1541.6	1474.3	1295.8	963.7	493.2	315.4	5.3	0.8	3.8	6.8	11.3
60°	1048.4	1008.3	810.9	508.3	210.3	133.1	2.3	0.8	3.8	6.8	10.6
62.5°	635.4	584.7	407.7	216.3	90.8	60.5	0.0	1.5	3.8	6.8	10.6
65°	180.8	160.4	106.7	49.2	25.7	19.7	0.0	1.5	3.8	6.8	10.6
67.5°	6.1	6.1	6.1	5.3	3.8	3.8	0.8	1.5	3.8	6.8	9.8
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	1.5	3.8	6.1	9.8
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	3.0	5.3	9.1
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.0	5.3	7.6
77.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.0	4.5	7.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.0	4.5	6.1



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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	2.3	3.0	3.0	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.0	2.3	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.3	2.3	1.5
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°	34.8	34.8
2.5°	32.5	32.5
5°	30.3	30.3
7.5°	28.0	28.0
10°	25.7	25.7
12.5°	24.2	24.2
15°	21.9	22.7
17.5°	20.4	21.2
20°	19.7	20.4
21°	19.7	20.4
22°	18.9	19.7
23°	18.9	19.7
24°	18.2	18.9
25°	17.4	18.2
26°	17.4	18.2
27°	17.4	18.2
28°	16.6	18.2
29°	16.6	17.4
30°	16.6	17.4
31°	15.9	17.4
32°	15.9	17.4
33°	15.9	16.6
34°	15.1	16.6
35°	15.1	16.6
36°	15.1	16.6
37°	15.1	15.9
38°	15.1	16.6
39°	15.1	15.9
40°	15.1	15.9
42.5°	15.1	15.9
45°	15.1	15.9
47.5°	15.1	16.6
50°	15.1	16.6
52.5°	15.1	16.6
55°	15.1	16.6
57.5°	15.1	15.9
60°	15.1	15.9
62.5°	14.4	15.9
65°	14.4	15.1
67.5°	14.4	15.1
70°	13.6	14.4
72.5°	12.9	13.6
75°	11.3	12.9
77.5°	10.6	11.3
80°	9.1	9.8



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.6	7.6
85°	5.3	6.1
87.5°	3.0	3.0
90°	0.0	0.0

(END OF REPORT)