

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: P1345197

Luminaire Tested: P3A13R30B2750DE010 E3CA451MMS_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345197
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 E3CA451MMS_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

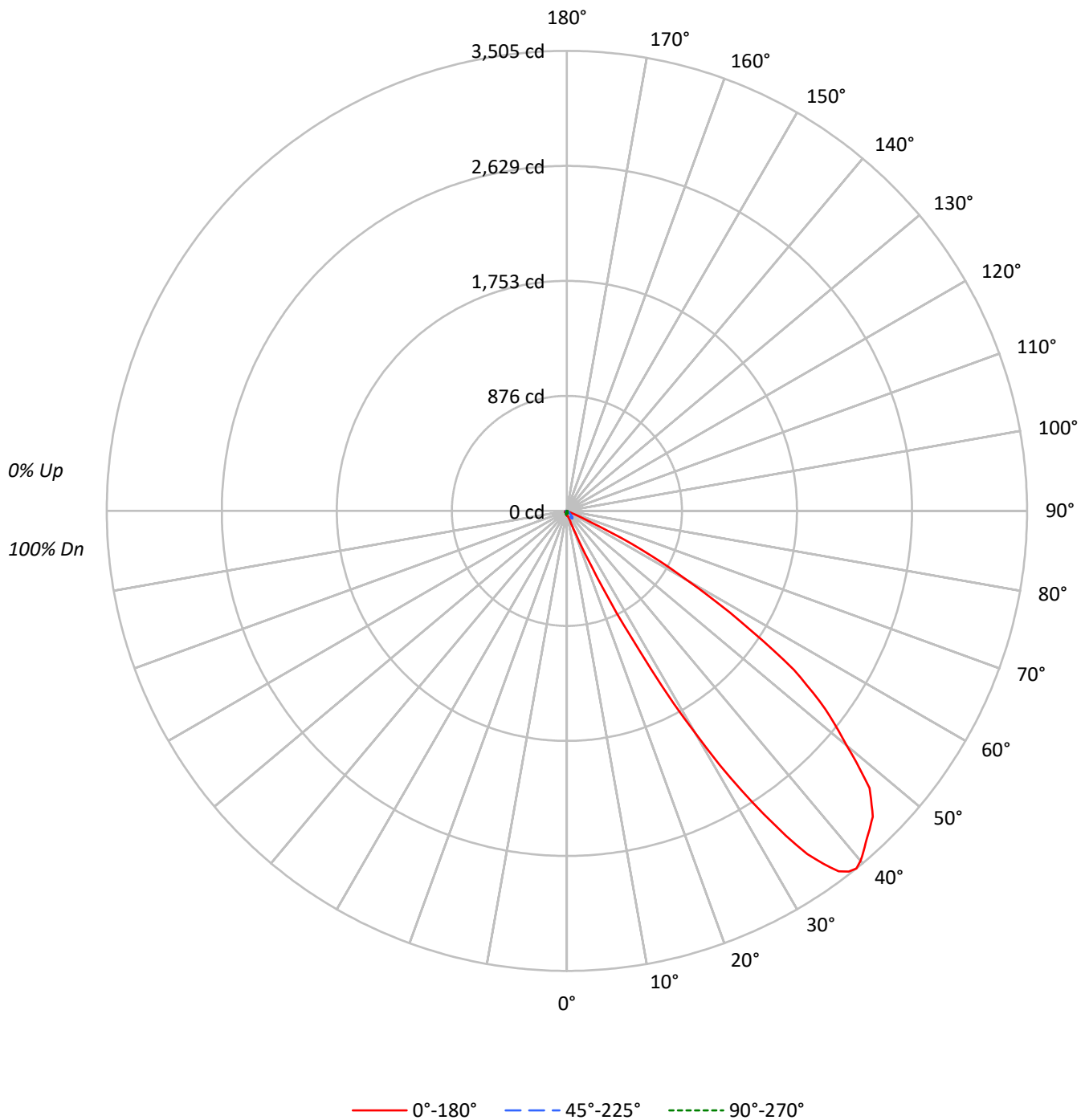
Lumens per Lamp: N/A
Luminaire Lumens: 911.0 lumens
Efficiency: N/A
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	7741	7741	7741	7741	7741
5°	8276	8100	7594	6934	6758
10°	9062	8038	6658	5990	5812
15°	13235	8014	5585	5062	5221
20°	33300	8774	4294	4294	4830
25°	154654	10960	3339	3895	4452
30°	492380	15167	2532	3697	4456
35°	854367	18498	2061	3480	4524
40°	996410	18463	1546	3521	4609
45°	1021874	13087	1675	3814	4993
50°	950280	7335	1296	3923	5765
55°	807656	3823	1453	4396	6461
60°	466454	1009	1667	4693	7061
65°	95159	0	1972	5552	7939
70°	1475	513	2436	6411	9361
75°	1271	678	2626	6524	11014
80°	1010	1010	3915	7703	12628
85°	0	2013	7799	7799	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1021874 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	9.2	1.0
20°-30°	52.5	5.8
30°-40°	245.4	26.9
40°-50°	347.0	38.1
50°-60°	213.5	23.4
60°-70°	32.5	3.6
70°-80°	5.2	0.6
80°-90°	2.6	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°	64.9	7.1
0°-40°	310.3	34.1
0°-60°	870.8	95.6
0°-90°	911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	38	37	34	32	31	4
15°	58	35	25	22	23	21
25°	639	45	14	16	18	393
35°	3192	69	8	13	17	1915
45°	3295	42	5	12	16	2498
55°	2113	10	4	12	17	1798
65°	183	0	4	11	15	332
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°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
2.5°	36.1	36.1	36.8	36.8	36.1	36.8	36.8	36.8	35.3	34.5	33.0
5°	37.6	37.6	37.6	38.4	37.6	37.6	36.8	36.1	34.5	32.2	31.5
7.5°	39.1	39.1	38.4	39.1	38.4	38.4	36.8	35.3	33.0	30.7	29.2
10°	40.7	40.7	39.9	39.9	39.1	39.1	36.1	33.8	29.9	27.6	26.9
12.5°	45.3	45.3	44.5	43.7	42.2	41.4	35.3	31.5	26.9	24.6	23.8
15°	58.3	57.6	56.0	53.7	49.9	49.1	35.3	29.2	24.6	22.3	22.3
17.5°	79.8	79.0	76.7	70.6	63.7	61.4	35.3	26.1	21.5	20.0	20.0
20°	142.7	136.6	125.1	109.7	93.6	85.2	37.6	23.0	18.4	17.6	18.4
21°	186.5	180.3	165.8	140.4	112.0	102.8	39.1	22.3	17.6	16.9	18.4
22°	254.0	247.1	217.2	182.6	142.0	125.9	39.9	20.7	16.1	16.1	17.6
23°	354.5	343.0	292.4	237.1	177.3	154.2	41.4	20.0	15.3	16.1	16.9
24°	464.3	454.3	396.7	313.9	226.4	193.4	43.0	19.2	14.6	14.6	16.1
25°	639.2	627.7	525.7	396.0	287.0	232.5	45.3	17.6	13.8	13.8	16.1
26°	865.6	812.7	676.8	510.3	353.8	291.6	47.6	16.9	13.0	13.8	15.3
27°	1080.5	1036.7	884.0	654.6	437.4	358.4	50.6	16.1	12.3	13.0	15.3
28°	1362.9	1301.5	1108.9	828.0	551.0	433.6	53.7	15.3	11.5	13.0	14.6
29°	1679.0	1593.1	1360.6	1022.9	679.1	518.0	56.8	14.6	10.7	12.3	14.6
30°	1944.6	1864.0	1631.5	1253.9	826.5	629.3	59.9	13.8	10.0	12.3	14.6
31°	2256.1	2134.1	1852.5	1449.6	953.1	740.5	62.9	12.3	9.2	11.5	13.8
32°	2508.6	2423.4	2124.1	1670.6	1119.6	863.3	65.2	11.5	9.2	11.5	13.8
33°	2752.6	2638.3	2349.0	1882.4	1270.0	989.2	67.5	10.7	8.4	10.7	13.8
34°	2985.9	2880.8	2561.5	2053.5	1412.0	1108.9	69.1	9.2	8.4	10.7	13.0
35°	3191.6	3069.6	2748.8	2220.8	1557.8	1217.8	69.1	8.4	7.7	10.0	13.0
36°	3325.1	3237.6	2911.5	2385.8	1689.8	1321.4	69.1	7.7	6.9	10.0	12.3
37°	3439.4	3337.4	3041.9	2512.4	1787.2	1404.3	69.1	6.9	6.9	10.0	12.3
38°	3486.2	3398.8	3131.7	2624.5	1878.6	1488.7	68.3	6.1	6.1	9.2	12.3
39°	3504.7	3426.4	3199.2	2705.0	1946.1	1545.5	66.8	5.4	6.1	9.2	12.3
40°	3480.9	3421.8	3233.8	2757.2	1999.8	1587.0	64.5	4.6	5.4	9.2	12.3
42.5°	3382.6	3343.5	3226.1	2809.4	2045.9	1617.7	56.0	3.1	5.4	8.4	12.3
45°	3295.2	3252.2	3148.6	2754.9	1986.0	1557.0	42.2	1.5	5.4	8.4	12.3
47.5°	3125.6	3098.7	3017.4	2616.0	1854.8	1420.4	29.9	0.8	4.6	7.7	11.5
50°	2785.6	2760.3	2652.9	2271.5	1595.4	1201.0	21.5	0.8	3.8	7.7	11.5
52.5°	2481.0	2454.1	2299.9	1888.5	1225.5	880.2	13.8	0.8	3.8	7.7	11.5
55°	2112.6	2065.8	1863.2	1433.5	868.7	590.1	10.0	0.8	3.8	6.9	11.5
57.5°	1563.9	1495.6	1314.5	977.7	500.3	320.0	5.4	0.8	3.8	6.9	11.5
60°	1063.6	1022.9	822.6	515.7	213.3	135.1	2.3	0.8	3.8	6.9	10.7
62.5°	644.6	593.2	413.6	219.5	92.1	61.4	0.0	1.5	3.8	6.9	10.7
65°	183.4	162.7	108.2	49.9	26.1	20.0	0.0	1.5	3.8	6.9	10.7
67.5°	6.1	6.1	6.1	5.4	3.8	3.8	0.8	1.5	3.8	6.9	10.0
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	1.5	3.8	6.1	10.0
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	3.1	5.4	9.2
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	5.4	7.7
77.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	4.6	7.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	4.6	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	3.1	3.1	4.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	2.3	3.1
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°	35.3	35.3
2.5°	33.0	33.0
5°	30.7	30.7
7.5°	28.4	28.4
10°	26.1	26.1
12.5°	24.6	24.6
15°	22.3	23.0
17.5°	20.7	21.5
20°	20.0	20.7
21°	20.0	20.7
22°	19.2	20.0
23°	19.2	20.0
24°	18.4	19.2
25°	17.6	18.4
26°	17.6	18.4
27°	17.6	18.4
28°	16.9	18.4
29°	16.9	17.6
30°	16.9	17.6
31°	16.1	17.6
32°	16.1	17.6
33°	16.1	16.9
34°	15.3	16.9
35°	15.3	16.9
36°	15.3	16.9
37°	15.3	16.1
38°	15.3	16.9
39°	15.3	16.1
40°	15.3	16.1
42.5°	15.3	16.1
45°	15.3	16.1
47.5°	15.3	16.9
50°	15.3	16.9
52.5°	15.3	16.9
55°	15.3	16.9
57.5°	15.3	16.1
60°	15.3	16.1
62.5°	14.6	16.1
65°	14.6	15.3
67.5°	14.6	15.3
70°	13.8	14.6
72.5°	13.0	13.8
75°	11.5	13.0
77.5°	10.7	11.5
80°	9.2	10.0



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.7	7.7
85°	5.4	6.1
87.5°	3.1	3.1
90°	0.0	0.0

(END OF REPORT)