

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: P1344148

Luminaire Tested: P3A13R20B2750DE010 E3A301WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R20B2750DE010 E3A301WMH_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

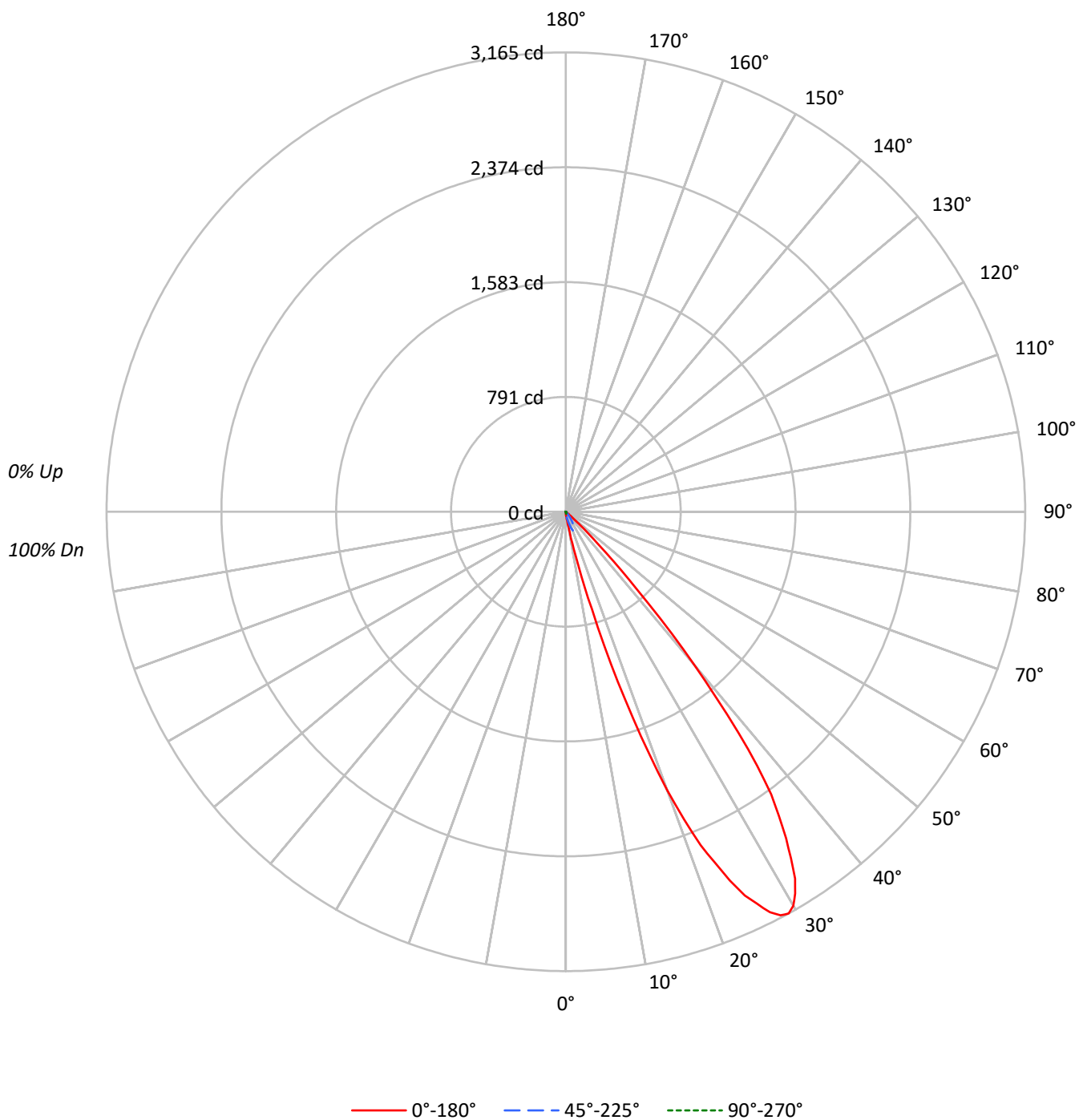
Lumens per Lamp: N/A
Luminaire Lumens: 444.0 lumens
Efficiency: N/A
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3355	3355	3355	3355	3355
5°	7704	5767	3192	1959	1695
10°	24315	10042	2605	1069	802
15°	157458	18570	1930	363	91
20°	475248	31783	1307	0	0
25°	705815	32058	774	0	0
30°	793717	24383	304	0	0
35°	684837	14562	214	0	0
40°	394339	4952	0	0	0
45°	96196	1985	124	0	124
50°	11531	546	136	136	409
55°	1529	0	306	306	612
60°	175	0	526	526	877
65°	208	208	830	830	1245
70°	256	256	1026	1026	1282
75°	0	339	1356	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 96816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	41.1	9.3
20°-30°	179.3	40.4
30°-40°	180.6	40.7
40°-50°	36.2	8.2
50°-60°	1.8	0.4
60°-70°	1.2	0.3
70°-80°	1.1	0.2
80°-90°	0.5	0.1
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°	222.5	50.1
0°-40°	403.2	90.8
0°-60°	441.2	99.4
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	35	26	14	9	8	5
15°	694	82	8	2	0	272
25°	2917	132	3	0	0	1315
35°	2558	54	1	0	0	1522
45°	310	6	0	0	0	338
55°	4	0	1	1	2	7
65°	0	0	2	2	2	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	0
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°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	23.0	23.0	22.6	22.6	22.2	22.6	21.8	22.2	22.2	21.8	19.7
5°	35.0	35.9	35.4	35.4	35.0	35.4	34.6	33.8	33.0	33.0	26.2
7.5°	57.6	57.2	56.4	56.8	55.6	54.8	54.0	53.6	51.2	49.9	34.2
10°	109.2	111.6	109.6	109.2	101.9	101.5	96.7	89.8	83.8	80.6	45.1
12.5°	300.5	313.4	293.2	283.6	277.9	256.2	246.9	223.2	200.2	182.9	57.2
15°	693.6	725.5	684.8	687.6	653.8	591.7	537.4	490.6	435.4	379.9	81.8
17.5°	1359.1	1333.3	1311.2	1273.7	1204.8	1113.8	996.6	877.7	775.0	667.5	114.0
20°	2036.6	2013.7	1963.3	1881.5	1793.7	1658.8	1519.4	1341.0	1168.2	1006.2	136.2
21°	2269.9	2262.2	2179.6	2129.3	1993.9	1865.0	1704.3	1513.4	1318.8	1127.1	139.8
22°	2478.1	2432.2	2387.9	2313.4	2178.8	2038.6	1859.8	1658.8	1447.7	1234.6	140.2
23°	2622.3	2601.4	2559.5	2475.3	2341.6	2176.8	1988.3	1778.0	1555.7	1310.8	139.0
24°	2781.8	2755.2	2694.0	2595.7	2460.8	2298.0	2082.9	1874.3	1632.6	1374.8	135.7
25°	2917.2	2875.7	2803.2	2697.2	2549.8	2381.8	2165.5	1936.3	1686.2	1417.9	132.5
26°	3005.0	2982.4	2889.4	2774.2	2616.3	2443.1	2222.3	1983.9	1720.8	1437.6	127.3
27°	3096.4	3054.9	2963.5	2831.0	2659.8	2482.9	2254.5	2006.8	1732.9	1438.4	120.8
28°	3148.8	3103.7	3000.2	2860.8	2688.0	2505.1	2273.1	2014.1	1730.5	1426.0	113.2
29°	3165.3	3108.5	3007.4	2865.6	2694.8	2506.7	2270.3	2003.6	1709.1	1395.3	104.3
30°	3134.7	3076.7	2980.8	2842.7	2673.1	2486.6	2244.1	1969.0	1671.3	1351.4	96.3
31°	3067.8	3018.7	2926.0	2787.5	2624.7	2439.4	2184.9	1912.2	1606.8	1292.6	87.0
32°	2979.6	2931.3	2840.2	2715.0	2549.4	2362.5	2103.9	1823.5	1531.1	1204.8	77.7
33°	2847.1	2819.3	2737.5	2617.9	2452.3	2252.5	1995.1	1717.6	1423.1	1107.3	69.7
34°	2712.9	2677.9	2620.7	2489.8	2311.7	2112.4	1853.3	1571.4	1291.4	998.2	62.0
35°	2558.3	2537.3	2447.5	2342.8	2163.9	1960.1	1702.7	1429.2	1137.9	876.5	54.4
36°	2408.4	2376.2	2273.9	2163.1	1989.5	1769.2	1515.0	1258.0	1005.4	762.5	46.3
37°	2190.9	2141.8	2068.8	1952.0	1749.0	1561.3	1329.3	1090.8	842.3	639.3	37.5
38°	1935.1	1912.2	1811.0	1693.4	1525.5	1347.4	1117.8	915.6	694.9	533.7	28.6
39°	1633.4	1633.0	1536.3	1451.3	1287.0	1126.7	919.6	743.2	573.6	429.8	22.2
40°	1377.6	1330.1	1270.5	1163.7	1037.6	901.5	720.2	581.7	445.1	346.4	17.3
42.5°	722.2	718.2	683.2	603.0	532.5	452.4	359.7	299.7	234.4	190.9	10.9
45°	310.2	312.2	288.0	275.9	248.5	215.1	181.7	151.5	129.7	105.1	6.4
47.5°	78.5	75.3	74.5	77.3	77.3	74.9	67.3	63.2	58.4	53.6	3.6
50°	33.8	33.0	32.2	32.2	30.2	29.0	27.0	24.6	22.6	20.1	1.6
52.5°	12.5	12.9	13.3	12.9	12.9	12.5	12.5	12.1	10.9	9.7	0.8
55°	4.0	4.0	4.0	4.4	4.4	4.8	4.8	4.8	4.8	4.4	0.0
57.5°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	17.7	15.7	13.3	11.3	10.9	10.5
5°	19.7	14.5	10.9	8.9	8.1	7.7
7.5°	21.3	13.3	8.9	6.4	5.6	5.2
10°	22.2	11.7	7.3	4.8	3.6	3.6
12.5°	22.6	10.1	5.2	3.2	2.0	2.0
15°	22.2	8.5	4.0	1.6	0.4	0.4
17.5°	20.1	6.8	2.4	0.4	0.0	0.0
20°	17.3	5.6	1.6	0.0	0.0	0.0
21°	16.5	4.8	1.2	0.0	0.0	0.0
22°	15.3	4.4	0.8	0.0	0.0	0.0
23°	14.1	4.0	0.8	0.0	0.0	0.0
24°	12.9	3.6	0.4	0.0	0.0	0.0
25°	12.1	3.2	0.4	0.0	0.0	0.0
26°	11.3	2.8	0.4	0.0	0.0	0.0
27°	10.1	2.4	0.0	0.0	0.0	0.0
28°	9.3	2.0	0.0	0.0	0.0	0.0
29°	8.1	1.6	0.0	0.0	0.0	0.0
30°	6.8	1.2	0.0	0.0	0.0	0.0
31°	5.6	1.2	0.0	0.0	0.0	0.0
32°	4.8	0.8	0.0	0.0	0.0	0.0
33°	4.0	0.8	0.0	0.0	0.0	0.0
34°	3.6	0.8	0.0	0.0	0.0	0.0
35°	3.2	0.8	0.0	0.0	0.0	0.0
36°	2.4	0.4	0.0	0.0	0.0	0.0
37°	2.0	0.4	0.0	0.0	0.0	0.0
38°	1.6	0.4	0.0	0.0	0.0	0.0
39°	1.2	0.0	0.0	0.0	0.0	0.0
40°	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.4	1.2	1.2
55°	0.4	0.8	0.4	0.8	1.6	1.6
57.5°	0.4	0.8	0.8	1.2	1.6	2.0
60°	0.8	1.2	1.2	1.2	2.0	2.0
62.5°	0.8	1.2	1.6	1.6	2.0	2.4
65°	0.8	1.6	1.6	1.6	2.0	2.4
67.5°	1.2	1.6	1.6	1.6	2.0	2.4
70°	1.2	1.6	1.6	1.6	2.0	2.0
72.5°	1.2	1.6	1.2	1.6	1.6	2.0
75°	1.2	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)