

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: P1344144

Luminaire Tested: P3A13R20B2750DE010 E3A301WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344144
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

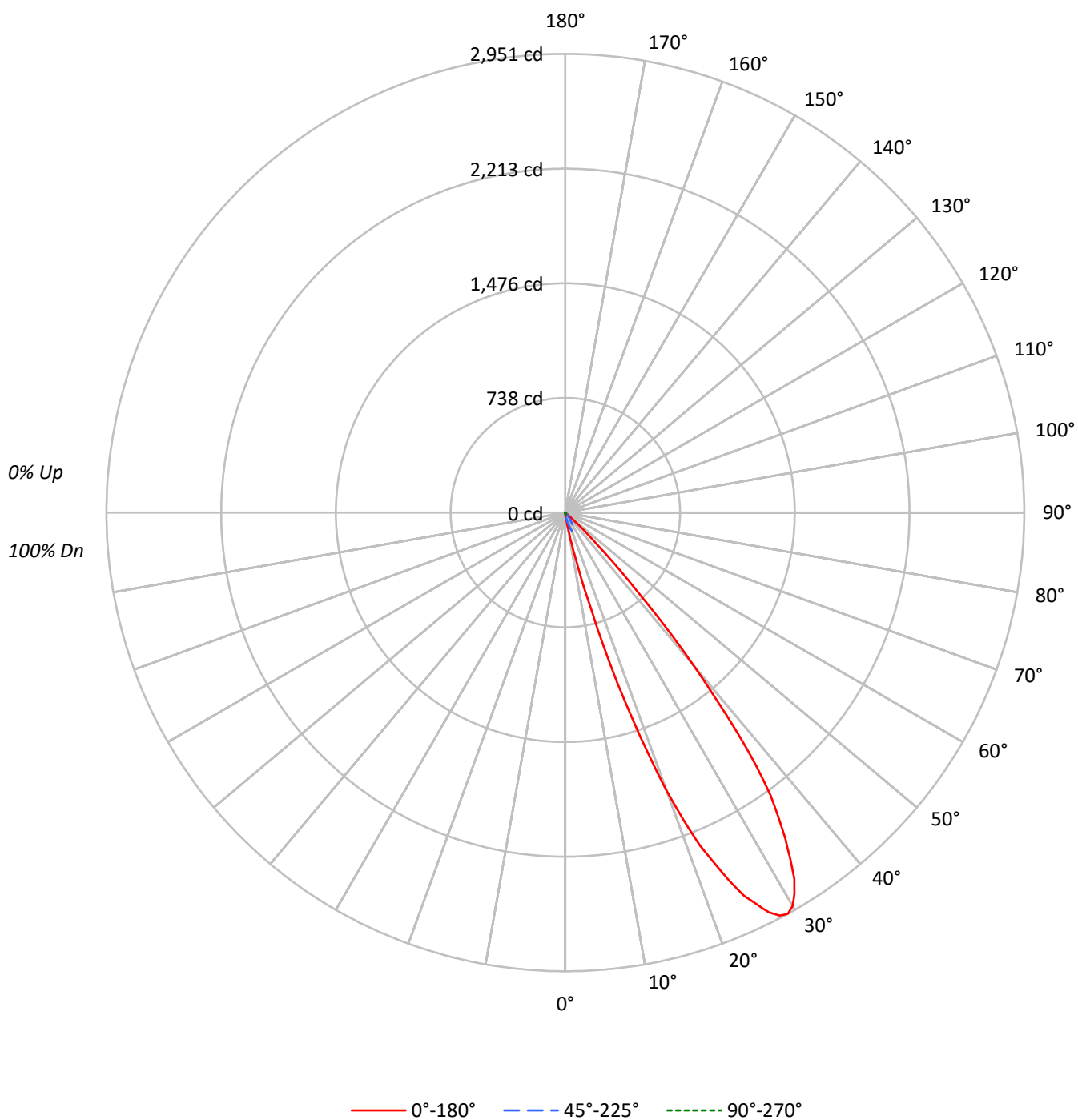
Lumens per Lamp: N/A
Luminaire Lumens: 414.1 lumens
Efficiency: N/A
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	3136	3136	3136	3136	3136
5°	7198	5371	2972	1827	1563
10°	22667	9374	2427	1002	757
15°	146834	17299	1793	341	91
20°	443139	29636	1237	0	0
25°	658127	29905	726	0	0
30°	740089	22738	279	0	0
35°	638553	13572	214	0	0
40°	367689	4637	0	0	0
45°	89684	1861	124	0	124
50°	10780	512	136	136	375
55°	1453	0	306	306	573
60°	175	0	482	482	833
65°	208	208	778	778	1193
70°	256	256	962	962	1218
75°	0	339	1271	932	1271
80°	0	505	1389	1010	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 90273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	38.4	9.3
20°-30°	167.2	40.4
30°-40°	168.4	40.7
40°-50°	33.8	8.2
50°-60°	1.7	0.4
60°-70°	1.1	0.3
70°-80°	1.0	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°	207.5	50.1
0°-40°	375.9	90.8
0°-60°	411.4	99.4
0°-90°	414.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	414.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	33	24	14	8	7	5
15°	647	76	8	2	0	253
25°	2720	124	3	0	0	1226
35°	2385	51	1	0	0	1419
45°	289	6	0	0	0	315
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°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	21.4	21.4	21.0	21.0	20.7	21.0	20.3	20.7	20.7	20.3	18.4
5°	32.7	33.4	33.1	33.1	32.7	33.1	32.3	31.6	30.8	30.8	24.4
7.5°	53.7	53.3	52.6	53.0	51.8	51.1	50.3	50.0	47.7	46.6	31.9
10°	101.8	104.0	102.2	101.8	95.0	94.7	90.1	83.8	78.1	75.1	42.1
12.5°	280.2	292.2	273.4	264.4	259.2	238.9	230.2	208.1	186.7	170.5	53.3
15°	646.8	676.4	638.5	641.1	609.6	551.8	501.0	457.5	406.0	354.2	76.2
17.5°	1267.3	1243.2	1222.6	1187.6	1123.4	1038.5	929.2	818.4	722.6	622.4	106.3
20°	1899.0	1877.6	1830.7	1754.4	1672.5	1546.7	1416.7	1250.4	1089.2	938.2	127.0
21°	2116.5	2109.3	2032.4	1985.4	1859.2	1739.0	1589.1	1411.1	1229.7	1050.9	130.3
22°	2310.7	2267.8	2226.5	2157.0	2031.6	1900.9	1734.1	1546.7	1349.9	1151.2	130.7
23°	2445.1	2425.6	2386.5	2308.0	2183.3	2029.7	1853.9	1657.9	1450.6	1222.2	129.6
24°	2593.9	2569.1	2512.0	2420.3	2294.5	2142.8	1942.2	1747.6	1522.3	1281.9	126.6
25°	2720.1	2681.4	2613.8	2515.0	2377.5	2220.9	2019.2	1805.5	1572.2	1322.1	123.6
26°	2801.9	2780.9	2694.2	2586.7	2439.5	2278.0	2072.2	1849.8	1604.5	1340.5	118.7
27°	2887.2	2848.5	2763.3	2639.7	2480.1	2315.2	2102.2	1871.2	1615.8	1341.3	112.7
28°	2936.0	2894.0	2797.4	2667.5	2506.4	2335.8	2119.5	1878.0	1613.6	1329.6	105.5
29°	2951.4	2898.5	2804.2	2672.0	2512.7	2337.3	2116.9	1868.2	1593.7	1301.1	97.3
30°	2922.9	2868.8	2779.4	2650.6	2492.5	2318.6	2092.4	1835.9	1558.3	1260.1	89.8
31°	2860.5	2814.7	2728.3	2599.1	2447.4	2274.6	2037.2	1783.0	1498.3	1205.3	81.1
32°	2778.3	2733.2	2648.3	2531.5	2377.1	2202.9	1961.7	1700.3	1427.6	1123.4	72.5
33°	2654.7	2628.8	2552.6	2441.0	2286.6	2100.3	1860.3	1601.5	1327.0	1032.5	65.0
34°	2529.6	2497.0	2443.6	2321.6	2155.5	1969.6	1728.1	1465.2	1204.2	930.7	57.8
35°	2385.4	2365.9	2282.1	2184.5	2017.7	1827.7	1587.6	1332.6	1061.1	817.3	50.7
36°	2245.7	2215.6	2120.2	2017.0	1855.1	1649.6	1412.6	1173.0	937.5	711.0	43.2
37°	2042.9	1997.0	1929.1	1820.1	1630.8	1455.8	1239.5	1017.1	785.4	596.1	34.9
38°	1804.4	1783.0	1688.7	1579.0	1422.4	1256.4	1042.3	853.7	647.9	497.7	26.7
39°	1523.0	1522.7	1432.5	1353.3	1200.0	1050.5	857.5	693.0	534.8	400.8	20.7
40°	1284.5	1240.2	1184.6	1085.1	967.5	840.6	671.6	542.4	415.0	323.0	16.2
42.5°	673.4	669.7	637.0	562.3	496.5	421.8	335.4	279.4	218.6	178.0	10.1
45°	289.2	291.1	268.6	257.3	231.7	200.6	169.4	141.2	120.9	98.0	6.0
47.5°	73.2	70.2	69.5	72.1	72.1	69.9	62.7	59.0	54.5	50.0	3.4
50°	31.6	30.8	30.0	30.0	28.2	27.0	25.2	22.9	21.0	18.8	1.5
52.5°	11.6	12.0	12.4	12.0	12.0	11.6	11.6	11.3	10.1	9.0	0.8
55°	3.8	3.8	3.8	4.1	4.1	4.5	4.5	4.5	4.5	4.1	0.0
57.5°	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	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°	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	16.5	14.6	12.4	10.5	10.1	9.8
5°	18.4	13.5	10.1	8.3	7.5	7.1
7.5°	19.9	12.4	8.3	6.0	5.3	4.9
10°	20.7	10.9	6.8	4.5	3.4	3.4
12.5°	21.0	9.4	4.9	3.0	1.9	1.9
15°	20.7	7.9	3.8	1.5	0.4	0.4
17.5°	18.8	6.4	2.3	0.4	0.0	0.0
20°	16.2	5.3	1.5	0.0	0.0	0.0
21°	15.4	4.5	1.1	0.0	0.0	0.0
22°	14.3	4.1	0.8	0.0	0.0	0.0
23°	13.1	3.8	0.8	0.0	0.0	0.0
24°	12.0	3.4	0.4	0.0	0.0	0.0
25°	11.3	3.0	0.4	0.0	0.0	0.0
26°	10.5	2.6	0.4	0.0	0.0	0.0
27°	9.4	2.3	0.0	0.0	0.0	0.0
28°	8.6	1.9	0.0	0.0	0.0	0.0
29°	7.5	1.5	0.0	0.0	0.0	0.0
30°	6.4	1.1	0.0	0.0	0.0	0.0
31°	5.3	1.1	0.0	0.0	0.0	0.0
32°	4.5	0.8	0.0	0.0	0.0	0.0
33°	3.8	0.8	0.0	0.0	0.0	0.0
34°	3.4	0.8	0.0	0.0	0.0	0.0
35°	3.0	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.4	0.0	0.0	0.0	0.0
37°	1.9	0.4	0.0	0.0	0.0	0.0
38°	1.5	0.4	0.0	0.0	0.0	0.0
39°	1.1	0.0	0.0	0.0	0.0	0.0
40°	1.1	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	1.1
52.5°	0.0	0.8	0.4	0.4	1.1	1.1
55°	0.4	0.8	0.4	0.8	1.5	1.5
57.5°	0.4	0.8	0.8	1.1	1.5	1.9
60°	0.8	1.1	1.1	1.1	1.9	1.9
62.5°	0.8	1.1	1.5	1.5	1.9	2.3
65°	0.8	1.5	1.5	1.5	1.9	2.3
67.5°	1.1	1.5	1.5	1.5	1.9	2.3
70°	1.1	1.5	1.5	1.5	1.9	1.9
72.5°	1.1	1.5	1.1	1.5	1.5	1.9
75°	1.1	1.5	1.1	1.1	1.5	1.5
77.5°	0.8	1.1	1.1	0.8	1.1	1.1
80°	0.8	1.1	0.8	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.1	0.8	0.4	0.8	0.8
85°	0.8	1.1	0.8	0.4	0.4	0.4
87.5°	0.8	1.1	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)