

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: P1344313

Luminaire Tested: P3A13R20W2N902765DE010 E3A301WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344313
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: P3A13R20W2N902765DE010 E3A301WMH_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

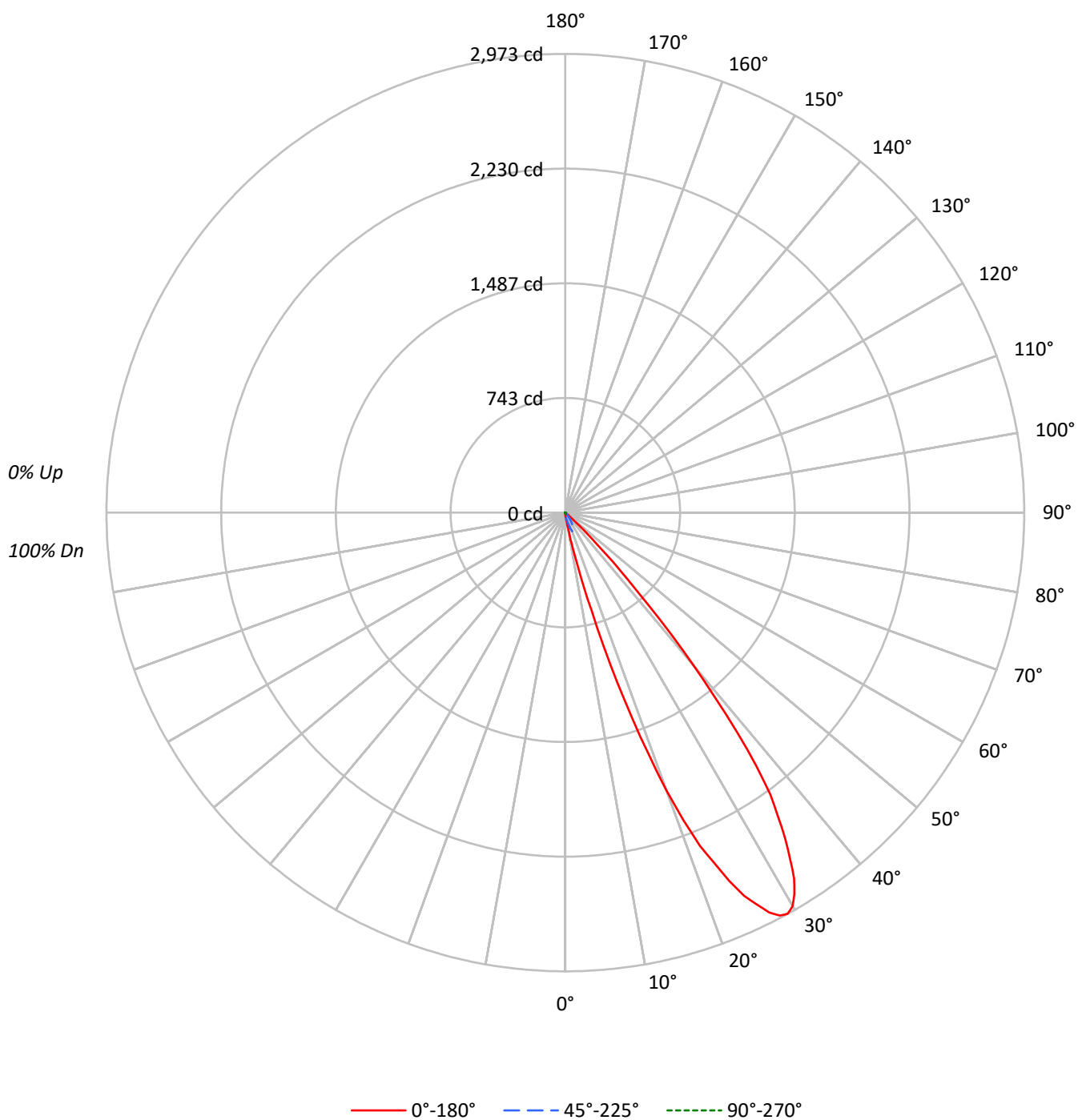
Lumens per Lamp: N/A
Luminaire Lumens: 417.0 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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
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°	3158	3158	3158	3158	3158
5°	7242	5415	2994	1827	1585
10°	22823	9441	2449	1002	757
15°	147901	17435	1793	341	91
20°	446359	29846	1237	0	0
25°	662893	30123	726	0	0
30°	745456	22890	279	0	0
35°	643184	13679	214	0	0
40°	370351	4666	0	0	0
45°	90335	1892	124	0	124
50°	10848	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: 90924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	38.6	9.3
20°-30°	168.4	40.4
30°-40°	169.6	40.7
40°-50°	34.0	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°	209.0	50.1
0°-40°	378.6	90.8
0°-60°	414.4	99.4
0°-90°	417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	33	25	14	8	7	5
15°	652	77	8	2	0	255
25°	2740	124	3	0	0	1235
35°	2403	51	1	0	0	1430
45°	291	6	0	0	0	317
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°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
2.5°	21.6	21.6	21.2	21.2	20.8	21.2	20.4	20.8	20.8	20.4	18.5
5°	32.9	33.7	33.3	33.3	32.9	33.3	32.5	31.8	31.0	31.0	24.6
7.5°	54.1	53.7	53.0	53.3	52.2	51.5	50.7	50.3	48.0	46.9	32.2
10°	102.5	104.8	102.9	102.5	95.7	95.3	90.8	84.4	78.7	75.7	42.4
12.5°	282.2	294.3	275.4	266.3	261.0	240.6	231.9	209.6	188.0	171.8	53.7
15°	651.5	681.4	643.1	645.8	614.0	555.7	504.7	460.8	409.0	356.8	76.8
17.5°	1276.4	1252.2	1231.4	1196.2	1131.5	1046.0	936.0	824.4	727.9	626.9	107.1
20°	1912.8	1891.2	1843.9	1767.1	1684.6	1557.9	1427.0	1259.4	1097.1	945.0	127.9
21°	2131.8	2124.6	2047.1	1999.8	1872.7	1751.6	1600.7	1421.3	1238.6	1058.5	131.3
22°	2327.4	2284.3	2242.7	2172.7	2046.3	1914.7	1746.7	1557.9	1359.7	1159.5	131.7
23°	2462.8	2443.2	2403.8	2324.8	2199.2	2044.4	1867.4	1669.9	1461.1	1231.0	130.5
24°	2612.7	2587.7	2530.2	2437.9	2311.1	2158.3	1956.3	1760.3	1533.3	1291.2	127.5
25°	2739.8	2700.8	2632.7	2533.2	2394.8	2237.0	2033.8	1818.6	1583.6	1331.7	124.5
26°	2822.3	2801.1	2713.7	2605.5	2457.2	2294.5	2087.2	1863.2	1616.2	1350.2	119.5
27°	2908.1	2869.2	2783.3	2658.8	2498.0	2332.0	2117.4	1884.8	1627.5	1351.0	113.5
28°	2957.3	2914.9	2817.7	2686.8	2524.5	2352.8	2134.8	1891.6	1625.3	1339.2	106.3
29°	2972.8	2919.5	2824.5	2691.4	2530.9	2354.3	2132.2	1881.8	1605.2	1310.5	98.0
30°	2944.1	2889.6	2799.6	2669.8	2510.5	2335.4	2107.6	1849.2	1569.6	1269.3	90.4
31°	2881.3	2835.1	2748.1	2618.0	2465.1	2291.1	2052.0	1795.9	1509.1	1214.0	81.7
32°	2798.4	2753.0	2667.5	2549.9	2394.4	2218.8	1976.0	1712.6	1438.0	1131.5	73.0
33°	2674.0	2647.8	2571.0	2458.7	2303.2	2115.6	1873.8	1613.1	1336.6	1040.0	65.4
34°	2548.0	2515.1	2461.3	2338.4	2171.2	1983.9	1740.6	1475.8	1212.9	937.5	58.3
35°	2402.7	2383.0	2298.7	2200.3	2032.3	1840.9	1599.1	1342.3	1068.7	823.2	51.1
36°	2262.0	2231.7	2135.6	2031.6	1868.5	1661.6	1422.9	1181.5	944.3	716.2	43.5
37°	2057.7	2011.5	1943.0	1833.3	1642.7	1466.4	1248.4	1024.5	791.1	600.4	35.2
38°	1817.4	1795.9	1700.9	1590.4	1432.7	1265.5	1049.8	859.9	652.6	501.3	26.9
39°	1534.1	1533.7	1442.9	1363.1	1208.7	1058.2	863.7	698.0	538.7	403.7	20.8
40°	1293.8	1249.2	1193.2	1093.0	974.5	846.7	676.4	546.3	418.0	325.4	16.3
42.5°	678.3	674.5	641.6	566.3	500.1	424.9	337.8	281.5	220.2	179.3	10.2
45°	291.3	293.2	270.5	259.1	233.4	202.0	170.6	142.2	121.8	98.7	6.1
47.5°	73.8	70.7	70.0	72.6	72.6	70.4	63.2	59.4	54.9	50.3	3.4
50°	31.8	31.0	30.3	30.3	28.4	27.2	25.3	23.1	21.2	18.9	1.5
52.5°	11.7	12.1	12.5	12.1	12.1	11.7	11.7	11.3	10.2	9.1	0.8
55°	3.8	3.8	3.8	4.2	4.2	4.5	4.5	4.5	4.5	4.2	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°	14.4	14.4	14.4	14.4	14.4	14.4
2.5°	16.6	14.8	12.5	10.6	10.2	9.8
5°	18.5	13.6	10.2	8.3	7.6	7.2
7.5°	20.1	12.5	8.3	6.1	5.3	4.9
10°	20.8	11.0	6.8	4.5	3.4	3.4
12.5°	21.2	9.5	4.9	3.0	1.9	1.9
15°	20.8	7.9	3.8	1.5	0.4	0.4
17.5°	18.9	6.4	2.3	0.4	0.0	0.0
20°	16.3	5.3	1.5	0.0	0.0	0.0
21°	15.5	4.5	1.1	0.0	0.0	0.0
22°	14.4	4.2	0.8	0.0	0.0	0.0
23°	13.2	3.8	0.8	0.0	0.0	0.0
24°	12.1	3.4	0.4	0.0	0.0	0.0
25°	11.3	3.0	0.4	0.0	0.0	0.0
26°	10.6	2.6	0.4	0.0	0.0	0.0
27°	9.5	2.3	0.0	0.0	0.0	0.0
28°	8.7	1.9	0.0	0.0	0.0	0.0
29°	7.6	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)