

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: P1344310

Luminaire Tested: P3A13R20W2N902765DE010 E3A301WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344310
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_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

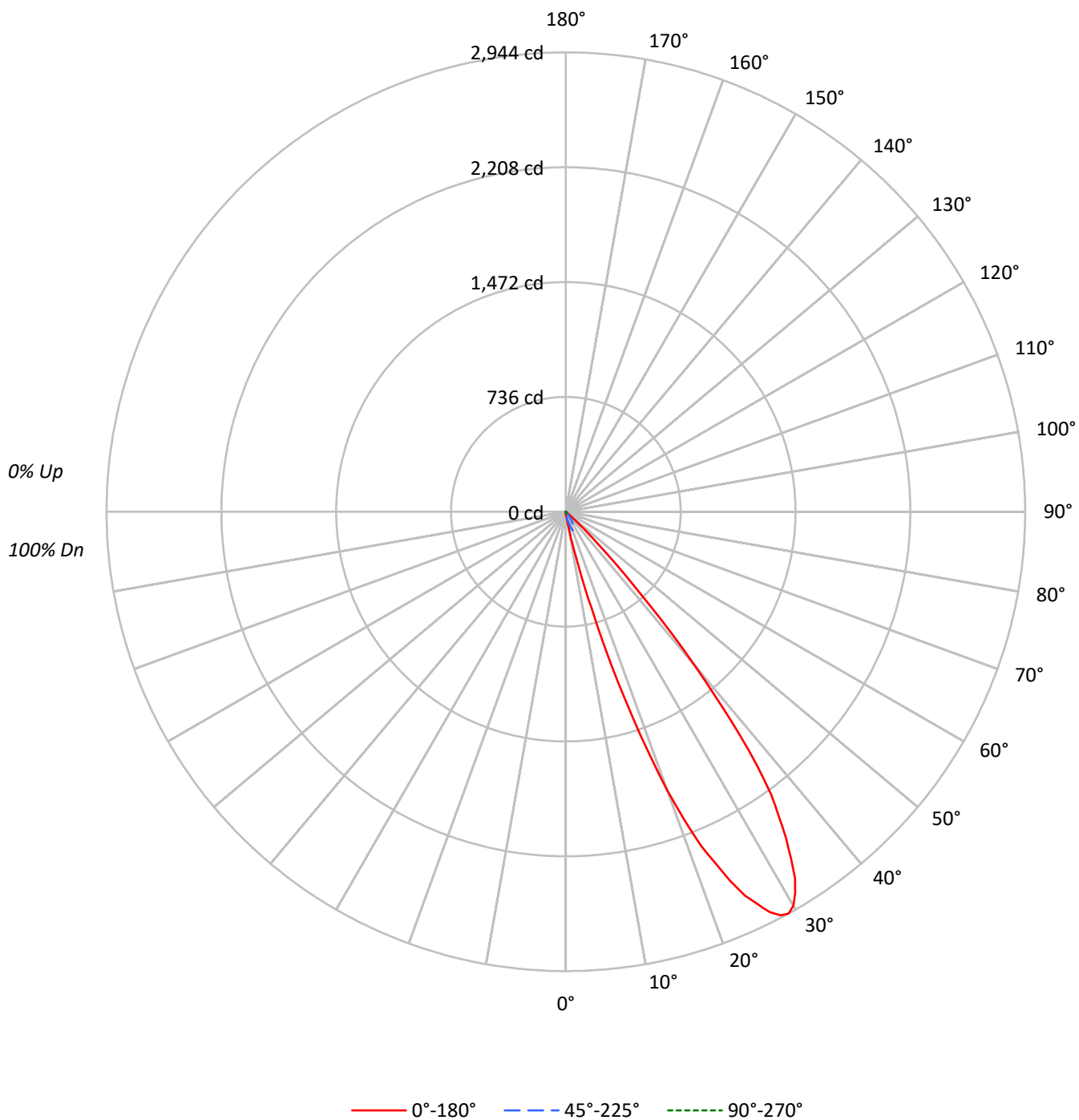
Lumens per Lamp: N/A
Luminaire Lumens: 413.0 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	3114	3114	3114	3114	3114
5°	7176	5371	2972	1805	1563
10°	22600	9352	2427	1002	757
15°	146471	17276	1793	341	91
20°	442065	29543	1213	0	0
25°	656530	29832	726	0	0
30°	738291	22687	279	0	0
35°	637001	13545	187	0	0
40°	366802	4609	0	0	0
45°	89467	1861	124	0	124
50°	10746	512	136	136	375
55°	1415	0	268	268	573
60°	175	0	482	482	833
65°	208	208	778	778	1141
70°	256	256	962	962	1218
75°	0	339	1271	932	1271
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 90056 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	38.3	9.3
20°-30°	166.8	40.4
30°-40°	168.0	40.7
40°-50°	33.7	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°	207.0	50.1
0°-40°	375.0	90.8
0°-60°	410.4	99.4
0°-90°	413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	33	24	14	8	7	5
15°	645	76	8	2	0	253
25°	2714	123	3	0	0	1223
35°	2380	51	1	0	0	1416
45°	288	6	0	0	0	314
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°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	21.4	21.4	21.0	21.0	20.6	21.0	20.2	20.6	20.6	20.2	18.4
5°	32.6	33.3	33.0	33.0	32.6	33.0	32.2	31.5	30.7	30.7	24.4
7.5°	53.6	53.2	52.5	52.8	51.7	51.0	50.2	49.8	47.6	46.5	31.8
10°	101.5	103.8	101.9	101.5	94.8	94.4	89.9	83.6	77.9	74.9	42.0
12.5°	279.5	291.5	272.8	263.8	258.5	238.3	229.7	207.6	186.2	170.1	53.2
15°	645.2	674.8	637.0	639.6	608.1	550.4	499.8	456.4	405.0	353.3	76.1
17.5°	1264.2	1240.2	1219.6	1184.8	1120.7	1036.0	927.0	816.4	720.9	620.9	106.0
20°	1894.4	1873.1	1826.2	1750.2	1668.5	1543.0	1413.3	1247.3	1086.6	936.0	126.6
21°	2111.4	2104.3	2027.4	1980.6	1854.7	1734.8	1585.3	1407.7	1226.7	1048.4	130.0
22°	2305.1	2262.4	2221.2	2151.8	2026.7	1896.3	1729.9	1543.0	1346.6	1148.4	130.4
23°	2439.2	2419.7	2380.8	2302.5	2178.1	2024.8	1849.5	1653.9	1447.0	1219.2	129.3
24°	2587.6	2562.9	2505.9	2414.5	2289.0	2137.6	1937.5	1743.4	1518.6	1278.8	126.3
25°	2713.5	2674.9	2607.5	2508.9	2371.8	2215.5	2014.3	1801.1	1568.4	1318.9	123.3
26°	2795.2	2774.2	2687.6	2580.5	2433.6	2272.5	2067.2	1845.3	1600.7	1337.3	118.4
27°	2880.2	2841.6	2756.6	2633.3	2474.1	2309.6	2097.1	1866.7	1611.9	1338.0	112.4
28°	2928.9	2887.0	2790.7	2661.0	2500.3	2330.2	2114.4	1873.4	1609.7	1326.4	105.3
29°	2944.3	2891.5	2797.4	2665.5	2506.7	2331.7	2111.7	1863.7	1589.8	1297.9	97.0
30°	2915.8	2861.9	2772.7	2644.2	2486.4	2313.0	2087.4	1831.5	1554.6	1257.1	89.6
31°	2853.6	2807.9	2721.7	2592.8	2441.5	2269.1	2032.3	1778.6	1494.6	1202.4	80.9
32°	2771.6	2726.6	2641.9	2525.4	2371.4	2197.6	1957.0	1696.2	1424.2	1120.7	72.3
33°	2648.3	2622.4	2546.4	2435.1	2281.1	2095.3	1855.8	1597.7	1323.8	1030.0	64.8
34°	2523.5	2490.9	2437.7	2316.0	2150.3	1964.9	1723.9	1461.7	1201.3	928.5	57.7
35°	2379.6	2360.2	2276.6	2179.2	2012.8	1823.2	1583.8	1329.4	1058.5	815.3	50.6
36°	2240.3	2210.3	2115.1	2012.1	1850.6	1645.6	1409.2	1170.2	935.2	709.3	43.1
37°	2037.9	1992.2	1924.4	1815.7	1626.9	1452.3	1236.5	1014.7	783.5	594.6	34.8
38°	1800.0	1778.6	1684.6	1575.2	1418.9	1253.3	1039.8	851.7	646.3	496.5	26.6
39°	1519.4	1519.0	1429.1	1350.0	1197.1	1048.0	855.4	691.3	533.6	399.8	20.6
40°	1281.4	1237.2	1181.8	1082.5	965.2	838.6	669.9	541.1	414.0	322.2	16.1
42.5°	671.8	668.1	635.5	560.9	495.3	420.8	334.6	278.8	218.1	177.6	10.1
45°	288.5	290.4	267.9	256.7	231.2	200.1	169.0	140.9	120.6	97.8	6.0
47.5°	73.1	70.1	69.3	71.9	71.9	69.7	62.6	58.8	54.3	49.8	3.4
50°	31.5	30.7	30.0	30.0	28.1	27.0	25.1	22.9	21.0	18.7	1.5
52.5°	11.6	12.0	12.4	12.0	12.0	11.6	11.6	11.2	10.1	9.0	0.7
55°	3.7	3.7	3.7	4.1	4.1	4.5	4.5	4.5	4.5	4.1	0.0
57.5°	0.7	0.7	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°	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	16.5	14.6	12.4	10.5	10.1	9.7
5°	18.4	13.5	10.1	8.2	7.5	7.1
7.5°	19.9	12.4	8.2	6.0	5.2	4.9
10°	20.6	10.9	6.7	4.5	3.4	3.4
12.5°	21.0	9.4	4.9	3.0	1.9	1.9
15°	20.6	7.9	3.7	1.5	0.4	0.4
17.5°	18.7	6.4	2.2	0.4	0.0	0.0
20°	16.1	5.2	1.5	0.0	0.0	0.0
21°	15.4	4.5	1.1	0.0	0.0	0.0
22°	14.2	4.1	0.7	0.0	0.0	0.0
23°	13.1	3.7	0.7	0.0	0.0	0.0
24°	12.0	3.4	0.4	0.0	0.0	0.0
25°	11.2	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	2.2	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°	5.2	1.1	0.0	0.0	0.0	0.0
32°	4.5	0.7	0.0	0.0	0.0	0.0
33°	3.7	0.7	0.0	0.0	0.0	0.0
34°	3.4	0.7	0.0	0.0	0.0	0.0
35°	3.0	0.7	0.0	0.0	0.0	0.0
36°	2.2	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	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.4	1.1	1.1
55°	0.4	0.7	0.4	0.7	1.5	1.5
57.5°	0.4	0.7	0.7	1.1	1.5	1.9
60°	0.7	1.1	1.1	1.1	1.9	1.9
62.5°	0.7	1.1	1.5	1.5	1.9	2.2
65°	0.7	1.5	1.5	1.5	1.9	2.2
67.5°	1.1	1.5	1.5	1.5	1.9	2.2
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°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	1.1	0.7	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)