

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: P1343811

Luminaire Tested: P3A13R15W2N902765DE010 E3A301WMH_3500K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R15W2N902765DE010 E3A301WMH_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3500K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

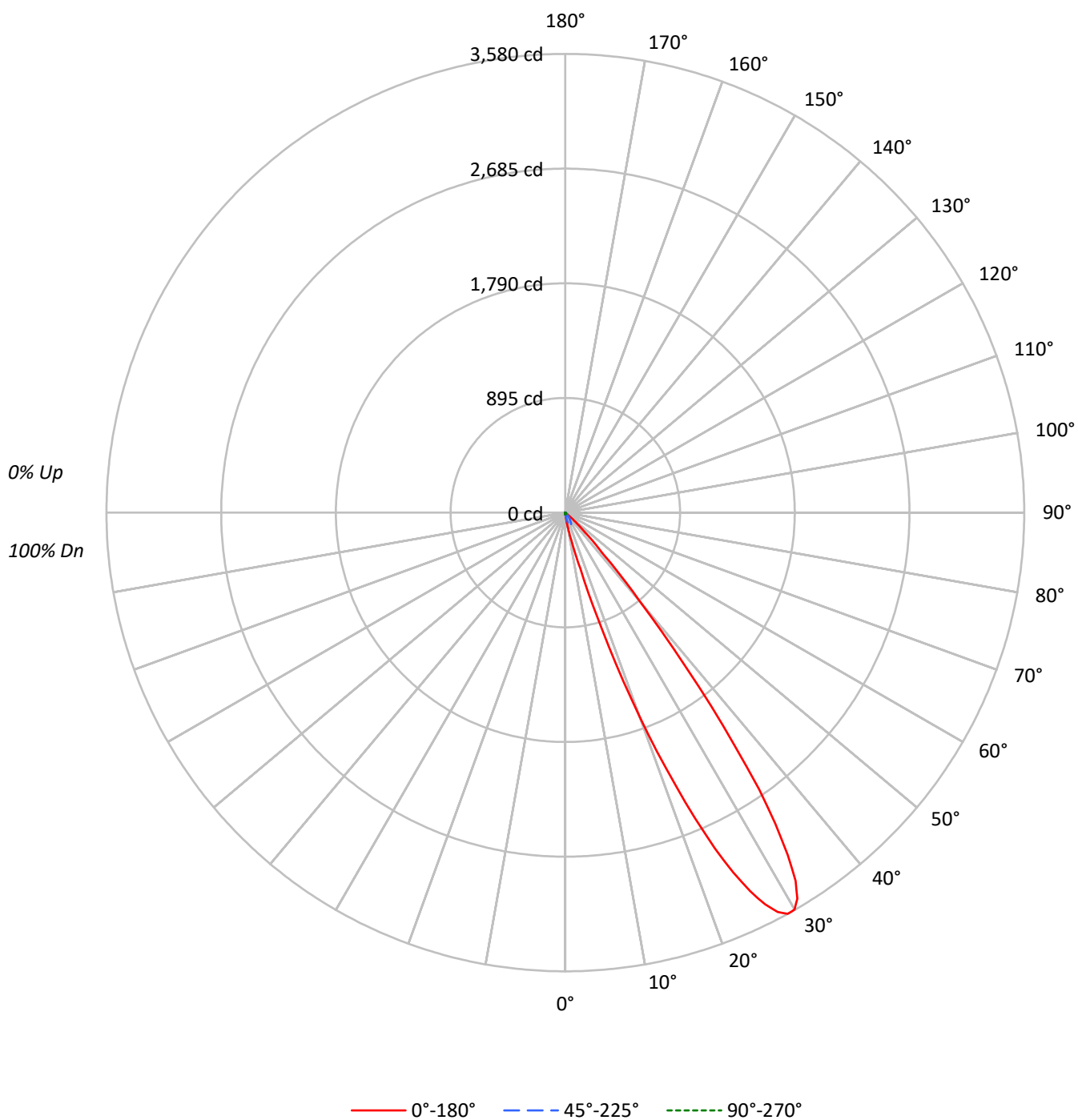
Lumens per Lamp: N/A
Luminaire Lumens: 391.0 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	68	
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	
8	71	60	53	48	70	59	52	47	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	42	41	
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2829	2829	2829	2829	2829
5°	6119	4512	2685	1431	1167
10°	27098	8550	2115	601	423
15°	102498	19773	1476	250	182
20°	394158	27862	887	93	93
25°	749535	26131	460	0	0
30°	905456	21092	203	0	0
35°	706199	14348	107	0	0
40°	257711	7070	115	0	115
45°	66177	2109	124	0	248
50°	11155	273	136	136	375
55°	1453	0	306	421	726
60°	175	175	482	658	1009
65°	208	208	778	986	1193
70°	256	256	962	962	1218
75°	339	339	1271	932	1271
80°	0	505	1389	1010	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 66177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	30.0	7.7
20°-30°	166.2	42.5
30°-40°	160.5	41.1
40°-50°	27.9	7.1
50°-60°	2.0	0.5
60°-70°	1.2	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°	197.9	50.6
0°-40°	358.5	91.7
0°-60°	388.4	99.3
0°-90°	391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	391.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	28	20	12	6	5	5
15°	452	87	6	1	1	201
25°	3098	108	2	0	0	1385
35°	2638	54	0	0	0	1517
45°	213	7	0	0	1	229
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°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	19.0	18.3	18.6	18.6	18.6	18.6	18.6	17.9	17.9	18.3	16.4
5°	27.8	27.8	27.4	27.8	27.8	27.4	26.6	26.2	26.2	25.5	20.5
7.5°	55.5	54.8	54.8	54.0	50.2	49.1	48.3	46.4	43.0	42.2	26.6
10°	121.7	122.1	119.4	116.0	115.6	109.9	108.0	104.6	98.1	91.7	38.4
12.5°	221.0	216.0	209.6	210.0	198.9	195.1	186.4	176.9	167.0	156.7	63.1
15°	451.5	437.4	445.8	425.2	402.0	375.8	349.2	315.7	287.2	256.7	87.1
17.5°	950.9	964.6	941.4	853.5	799.5	736.0	646.6	560.2	486.5	427.1	106.5
20°	1689.1	1709.3	1630.5	1554.1	1422.9	1279.9	1130.8	961.9	800.2	660.3	119.4
21°	1997.6	1985.4	1953.1	1830.6	1679.2	1513.4	1330.8	1144.5	948.6	766.8	120.6
22°	2295.8	2301.5	2226.2	2098.0	1940.5	1756.8	1533.9	1303.8	1092.7	853.5	118.7
23°	2592.8	2611.1	2511.4	2391.2	2193.1	1985.8	1727.9	1479.5	1218.6	952.8	114.9
24°	2867.8	2855.2	2787.9	2636.5	2424.7	2182.0	1914.3	1613.0	1322.1	1037.6	111.8
25°	3097.9	3096.4	2990.7	2843.5	2601.2	2332.3	2037.1	1722.2	1410.7	1095.0	108.0
26°	3286.2	3255.4	3172.1	2992.6	2753.3	2469.6	2137.9	1801.7	1460.5	1123.9	104.2
27°	3431.5	3409.4	3297.6	3110.8	2861.0	2547.2	2202.6	1841.2	1483.3	1133.4	99.3
28°	3529.2	3505.3	3386.2	3193.8	2920.3	2595.9	2236.8	1858.0	1483.3	1124.3	94.7
29°	3579.8	3547.1	3428.4	3222.3	2934.0	2601.6	2228.4	1841.6	1460.1	1096.2	89.4
30°	3576.0	3535.3	3410.9	3196.4	2893.3	2554.8	2181.7	1782.7	1407.7	1054.3	83.3
31°	3514.4	3468.7	3329.9	3108.9	2809.2	2466.5	2093.4	1703.6	1335.8	999.9	77.2
32°	3389.3	3331.4	3196.0	2975.8	2679.9	2334.6	1965.2	1581.5	1228.1	920.4	70.7
33°	3185.4	3127.2	2981.9	2775.4	2505.0	2167.2	1795.2	1450.3	1105.7	825.7	65.4
34°	2930.2	2876.9	2751.8	2543.7	2284.4	1955.4	1599.7	1268.8	978.6	731.8	59.7
35°	2638.1	2553.3	2439.9	2275.2	2022.3	1691.4	1388.6	1100.0	847.8	633.3	53.6
36°	2242.9	2258.1	2137.9	1936.3	1726.8	1467.4	1176.8	917.0	709.0	539.7	48.3
37°	1892.6	1868.6	1792.2	1636.2	1453.7	1196.2	986.2	777.4	596.4	456.4	42.6
38°	1526.7	1532.0	1457.1	1337.3	1156.2	983.6	793.8	638.6	499.0	388.3	37.3
39°	1195.0	1190.9	1170.7	1059.6	895.7	782.4	643.2	529.4	415.7	327.5	31.6
40°	900.3	907.1	860.0	793.0	697.6	604.4	512.3	422.2	343.8	276.1	24.7
42.5°	437.8	448.4	417.2	400.1	357.9	321.4	271.2	221.4	188.3	162.8	11.0
45°	213.4	207.3	204.6	196.3	186.4	166.6	147.6	126.7	110.7	95.5	6.8
47.5°	109.2	106.1	106.1	102.7	99.3	92.8	83.3	76.4	68.8	59.3	2.7
50°	32.7	32.3	31.9	32.3	31.2	32.3	33.1	33.5	30.4	30.0	0.8
52.5°	12.9	13.3	12.9	14.1	14.1	13.7	14.1	13.7	13.3	11.8	0.0
55°	3.8	3.8	3.8	3.8	3.8	3.8	4.2	4.6	4.2	4.6	0.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	15.2	13.3	11.0	9.1	8.4	8.0
5°	16.4	12.2	8.4	6.5	5.7	5.3
7.5°	17.5	11.0	6.5	4.6	3.4	3.0
10°	18.3	9.5	4.9	2.7	1.9	1.9
12.5°	18.3	7.6	3.4	1.5	1.1	1.1
15°	17.9	6.5	2.3	1.1	0.8	0.8
17.5°	17.5	4.9	1.5	0.8	0.4	0.8
20°	16.4	3.8	0.8	0.4	0.4	0.4
21°	16.0	3.4	0.8	0.4	0.4	0.4
22°	15.2	3.0	0.4	0.0	0.4	0.4
23°	14.5	2.3	0.4	0.0	0.0	0.0
24°	13.3	1.9	0.4	0.0	0.0	0.0
25°	12.6	1.9	0.4	0.0	0.0	0.0
26°	11.8	1.1	0.0	0.0	0.0	0.0
27°	10.6	0.8	0.0	0.0	0.0	0.0
28°	9.9	0.8	0.0	0.0	0.0	0.0
29°	8.7	0.8	0.0	0.0	0.0	0.0
30°	7.6	0.8	0.0	0.0	0.0	0.0
31°	6.1	0.4	0.0	0.0	0.0	0.0
32°	4.9	0.4	0.0	0.0	0.0	0.0
33°	3.4	0.4	0.0	0.0	0.0	0.0
34°	2.3	0.4	0.0	0.0	0.0	0.0
35°	1.9	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.4	0.0	0.0	0.0	0.4
37°	1.1	0.4	0.0	0.0	0.0	0.4
38°	0.8	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.8
45°	0.0	0.4	0.0	0.0	0.4	0.8
47.5°	0.0	0.4	0.0	0.0	0.8	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.1
52.5°	0.0	0.8	0.4	0.8	1.1	1.5
55°	0.4	0.8	0.8	1.1	1.5	1.9
57.5°	0.4	1.1	1.1	1.5	1.9	1.9
60°	0.8	1.1	1.5	1.5	2.3	2.3
62.5°	0.8	1.5	1.5	1.5	2.3	2.3
65°	0.8	1.5	1.5	1.9	2.3	2.3
67.5°	0.8	1.5	1.5	1.5	1.9	2.3
70°	0.8	1.5	1.1	1.5	1.9	1.9
72.5°	0.8	1.5	1.1	1.1	1.5	1.9
75°	0.8	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	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)