

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: P1343728

Luminaire Tested: P3A13R15W2N902750DE010 E3A301WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343728
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: P3A13R15W2N902750DE010 E3A301WMH_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 5000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

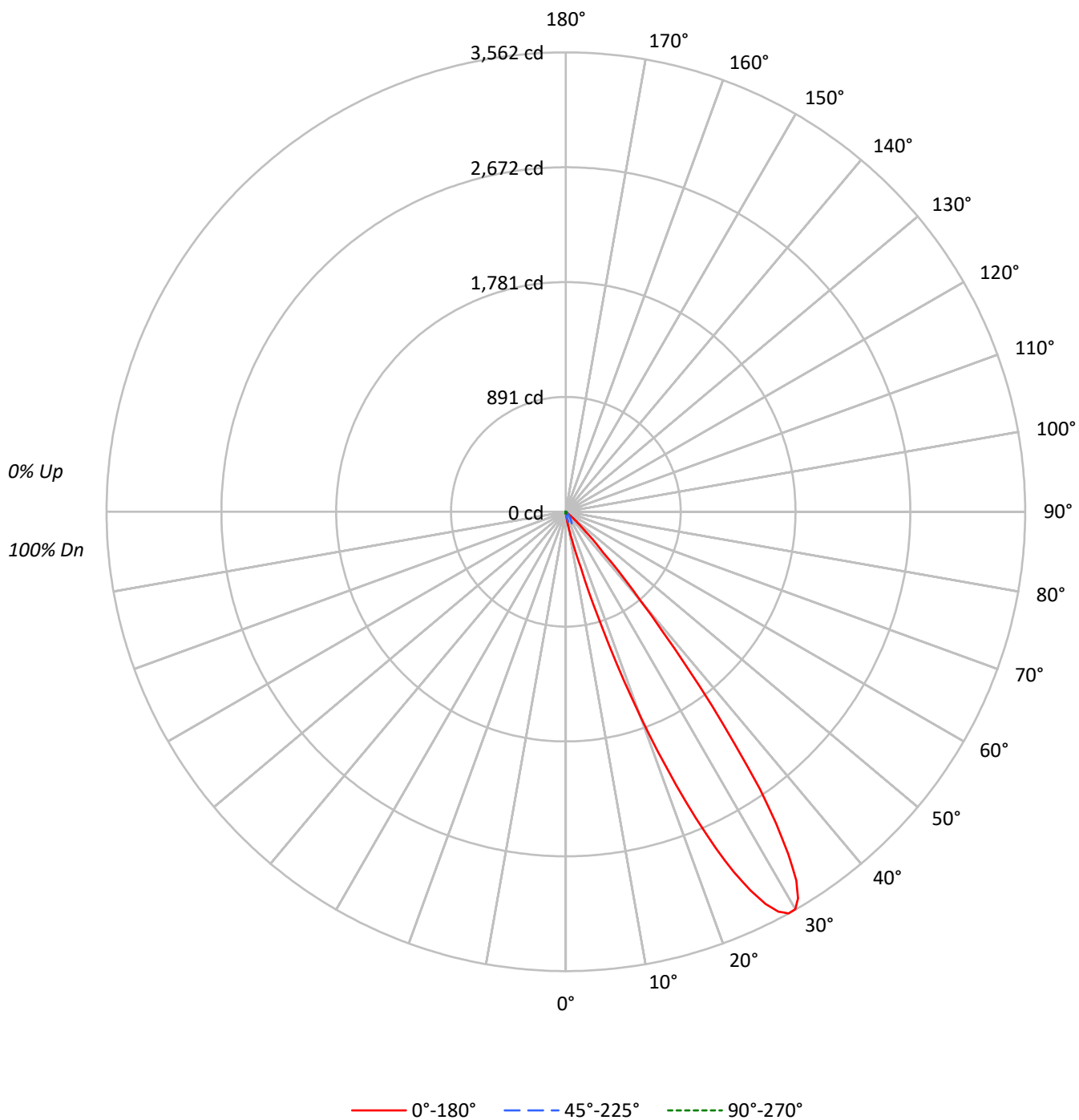
Lumens per Lamp: N/A
Luminaire Lumens: 389.0 lumens
Efficiency: N/A
Efficacy: 31.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	6075	4490	2663	1409	1167
10°	26965	8506	2115	579	423
15°	101976	19682	1453	250	182
20°	392151	27722	887	93	93
25°	745712	26010	460	0	0
30°	900822	20991	203	0	0
35°	702585	14295	107	0	0
40°	256395	7042	115	0	115
45°	65836	2109	124	0	248
50°	11087	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: 65836 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	29.8	7.7
20°-30°	165.3	42.5
30°-40°	159.7	41.1
40°-50°	27.8	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°	196.9	50.6
0°-40°	356.6	91.7
0°-60°	386.4	99.3
0°-90°	389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	389.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	28	20	12	6	5	5
15°	449	87	6	1	1	200
25°	3082	108	2	0	0	1378
35°	2625	53	0	0	0	1509
45°	212	7	0	0	1	228
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°	18.9	18.2	18.5	18.5	18.5	18.5	18.5	17.8	17.8	18.2	16.3
5°	27.6	27.6	27.2	27.6	27.6	27.2	26.5	26.1	26.1	25.4	20.4
7.5°	55.2	54.5	54.5	53.7	49.9	48.8	48.1	46.2	42.8	42.0	26.5
10°	121.1	121.5	118.8	115.4	115.0	109.4	107.5	104.1	97.6	91.2	38.2
12.5°	219.8	214.9	208.5	208.9	197.9	194.1	185.4	176.0	166.1	155.9	62.8
15°	449.2	435.2	443.5	423.1	400.0	373.9	347.4	314.1	285.7	255.4	86.7
17.5°	946.0	959.6	936.5	849.1	795.4	732.2	643.3	557.4	484.0	424.9	106.0
20°	1680.5	1700.5	1622.2	1546.1	1415.6	1273.3	1125.0	957.0	796.2	656.9	118.8
21°	1987.4	1975.2	1943.1	1821.2	1670.6	1505.7	1324.0	1138.6	943.7	762.9	120.0
22°	2284.0	2289.7	2214.8	2087.3	1930.6	1747.8	1526.1	1297.2	1087.1	849.1	118.1
23°	2579.5	2597.7	2498.6	2379.0	2181.8	1975.6	1719.1	1472.0	1212.4	947.9	114.3
24°	2853.1	2840.6	2773.7	2623.1	2412.3	2170.9	1904.5	1604.8	1315.3	1032.3	111.2
25°	3082.1	3080.5	2975.4	2828.9	2587.9	2320.3	2026.7	1713.4	1403.5	1089.4	107.5
26°	3269.4	3238.7	3155.8	2977.2	2739.2	2456.9	2127.0	1792.5	1453.1	1118.2	103.7
27°	3413.9	3392.0	3280.7	3094.9	2846.3	2534.1	2191.3	1831.8	1475.8	1127.6	98.8
28°	3511.2	3487.3	3368.9	3177.4	2905.3	2582.6	2225.4	1848.5	1475.8	1118.5	94.2
29°	3561.5	3529.0	3410.9	3205.8	2919.0	2588.3	2217.0	1832.2	1452.7	1090.5	88.9
30°	3557.7	3517.2	3393.5	3180.1	2878.5	2541.7	2170.5	1773.6	1400.5	1048.9	82.9
31°	3496.4	3451.0	3312.9	3093.0	2794.9	2453.9	2082.7	1694.9	1328.9	994.8	76.8
32°	3371.9	3314.4	3179.7	2960.6	2666.2	2322.6	1955.2	1573.4	1221.9	915.7	70.4
33°	3169.1	3111.2	2966.6	2761.2	2492.1	2156.1	1786.0	1442.8	1100.0	821.5	65.1
34°	2915.2	2862.2	2737.7	2530.7	2272.7	1945.4	1591.5	1262.3	973.6	728.0	59.4
35°	2624.6	2540.2	2427.4	2263.6	2011.9	1682.7	1381.5	1094.3	843.5	630.0	53.4
36°	2231.4	2246.6	2127.0	1926.4	1717.9	1459.9	1170.8	912.3	705.3	536.9	48.1
37°	1882.9	1859.1	1783.0	1627.9	1446.2	1190.1	981.2	773.4	593.3	454.1	42.4
38°	1518.9	1524.2	1449.6	1330.5	1150.3	978.5	789.7	635.3	496.5	386.3	37.1
39°	1188.9	1184.8	1164.7	1054.2	891.1	778.4	639.9	526.7	413.6	325.8	31.4
40°	895.7	902.5	855.6	789.0	694.0	601.3	509.7	420.0	342.1	274.7	24.6
42.5°	435.5	446.1	415.1	398.1	356.1	319.7	269.8	220.2	187.3	162.0	11.0
45°	212.3	206.2	203.6	195.3	185.4	165.7	146.8	126.0	110.1	95.0	6.8
47.5°	108.6	105.6	105.6	102.2	98.8	92.3	82.9	76.1	68.5	59.0	2.6
50°	32.5	32.2	31.8	32.2	31.0	32.2	32.9	33.3	30.3	29.9	0.8
52.5°	12.9	13.2	12.9	14.0	14.0	13.6	14.0	13.6	13.2	11.7	0.0
55°	3.8	3.8	3.8	3.8	3.8	3.8	4.2	4.5	4.2	4.5	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°	15.1	13.2	11.0	9.1	8.3	7.9
5°	16.3	12.1	8.3	6.4	5.7	5.3
7.5°	17.4	11.0	6.4	4.5	3.4	3.0
10°	18.2	9.5	4.9	2.6	1.9	1.9
12.5°	18.2	7.6	3.4	1.5	1.1	1.1
15°	17.8	6.4	2.3	1.1	0.8	0.8
17.5°	17.4	4.9	1.5	0.8	0.4	0.8
20°	16.3	3.8	0.8	0.4	0.4	0.4
21°	15.9	3.4	0.8	0.4	0.4	0.4
22°	15.1	3.0	0.4	0.0	0.4	0.4
23°	14.4	2.3	0.4	0.0	0.0	0.0
24°	13.2	1.9	0.4	0.0	0.0	0.0
25°	12.5	1.9	0.4	0.0	0.0	0.0
26°	11.7	1.1	0.0	0.0	0.0	0.0
27°	10.6	0.8	0.0	0.0	0.0	0.0
28°	9.8	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)