

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: P1343378

Luminaire Tested: P3A13R159024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343378
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: P3A13R159024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

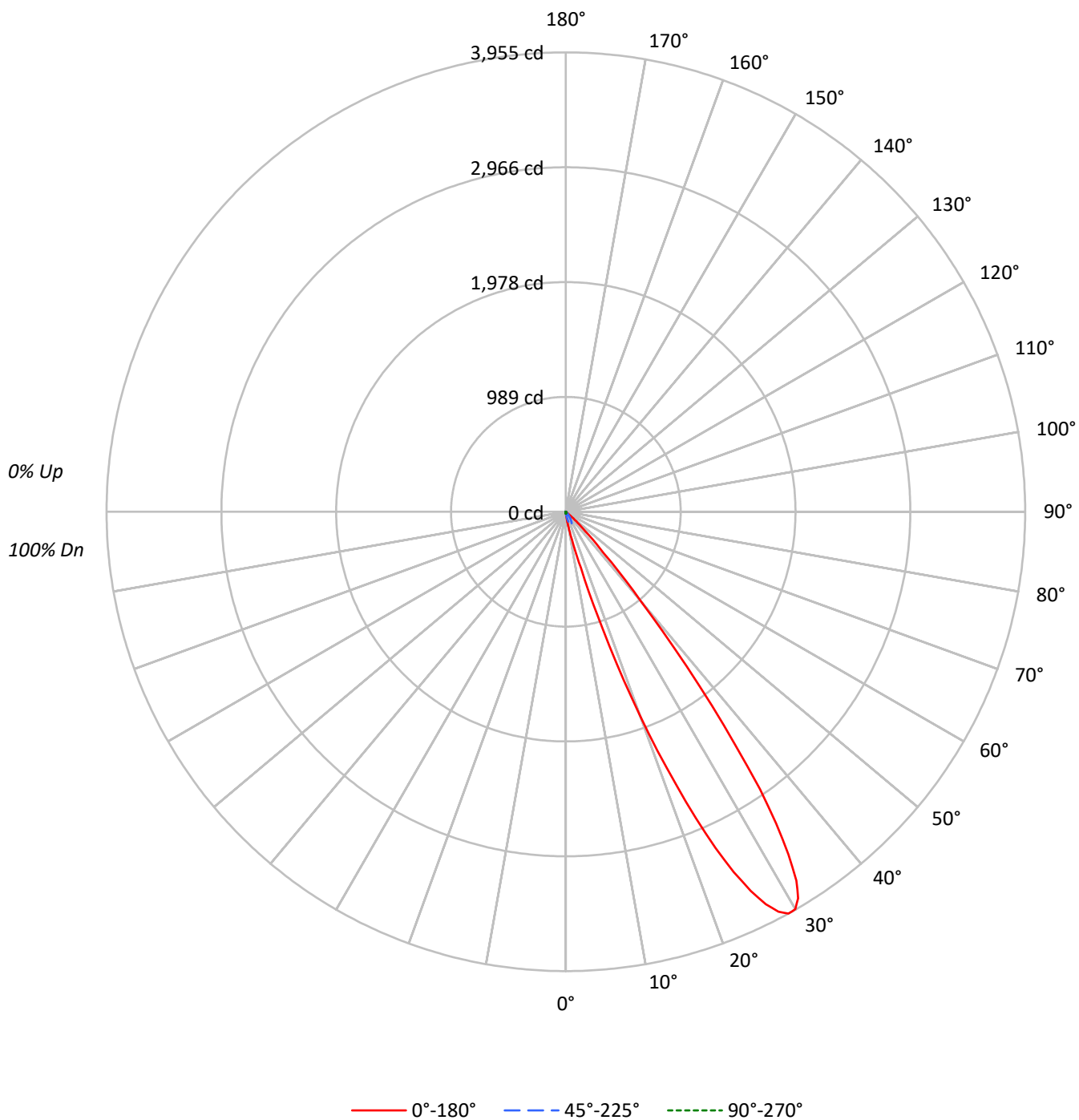
Lumens per Lamp: N/A
Luminaire Lumens: 432.0 lumens
Efficiency: N/A
Efficacy: 29.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	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	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°	3136	3136	3136	3136	3136
5°	6758	4997	2950	1563	1299
10°	29948	9441	2338	646	468
15°	113236	21839	1612	295	182
20°	435485	30803	980	93	93
25°	828145	28865	508	0	0
30°	1000407	23295	203	0	0
35°	780243	15874	107	0	0
40°	284733	7815	115	0	115
45°	73093	2357	124	0	248
50°	12315	273	136	136	443
55°	1606	0	306	497	803
60°	175	175	570	746	1096
65°	208	208	882	1090	1297
70°	256	256	1090	1090	1346
75°	339	339	1440	1101	1440
80°	0	505	1642	1010	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 73093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	33.1	7.7
20°-30°	183.6	42.5
30°-40°	177.4	41.1
40°-50°	30.8	7.1
50°-60°	2.2	0.5
60°-70°	1.3	0.3
70°-80°	1.1	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°	218.7	50.6
0°-40°	396.0	91.7
0°-60°	429.1	99.3
0°-90°	432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	23	13	7	6	6
15°	499	96	7	1	1	222
25°	3423	119	2	0	0	1530
35°	2915	59	0	0	0	1676
45°	236	8	0	0	1	253
55°	4	0	1	1	2	8
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°	21.0	20.2	20.6	20.6	20.6	20.6	20.6	19.8	19.8	20.2	18.1
5°	30.7	30.7	30.3	30.7	30.7	30.3	29.4	29.0	29.0	28.2	22.7
7.5°	61.4	60.5	60.5	59.7	55.5	54.2	53.4	51.3	47.5	46.6	29.4
10°	134.5	134.9	132.0	128.2	127.7	121.4	119.3	115.6	108.4	101.3	42.4
12.5°	244.2	238.7	231.5	232.0	219.8	215.6	205.9	195.4	184.5	173.1	69.8
15°	498.8	483.3	492.5	469.8	444.2	415.2	385.8	348.8	317.3	283.7	96.2
17.5°	1050.6	1065.7	1040.1	943.0	883.3	813.1	714.4	619.0	537.5	471.9	117.7
20°	1866.2	1888.5	1801.5	1717.0	1572.1	1414.1	1249.3	1062.8	884.2	729.5	132.0
21°	2207.0	2193.6	2157.9	2022.6	1855.3	1672.1	1470.4	1264.5	1048.0	847.2	133.2
22°	2536.5	2542.8	2459.6	2318.0	2144.0	1941.0	1694.8	1440.5	1207.3	943.0	131.1
23°	2864.7	2884.9	2774.8	2642.0	2423.0	2194.0	1909.1	1634.7	1346.4	1052.7	126.9
24°	3168.5	3154.6	3080.3	2913.0	2678.9	2410.8	2115.0	1782.2	1460.7	1146.4	123.5
25°	3422.8	3421.1	3304.2	3141.6	2873.9	2576.8	2250.7	1902.8	1558.6	1209.8	119.3
26°	3630.8	3596.7	3504.7	3306.3	3042.0	2728.5	2362.1	1990.6	1613.7	1241.8	115.1
27°	3791.3	3766.9	3643.4	3437.0	3161.0	2814.3	2433.5	2034.3	1638.9	1252.3	109.7
28°	3899.3	3872.8	3741.3	3528.6	3226.5	2868.1	2471.4	2052.8	1638.9	1242.2	104.6
29°	3955.2	3919.0	3787.9	3560.2	3241.6	2874.4	2462.1	2034.7	1613.3	1211.1	98.8
30°	3951.0	3906.0	3768.6	3531.6	3196.7	2822.7	2410.4	1969.6	1555.3	1164.9	92.0
31°	3882.9	3832.5	3679.1	3434.9	3103.8	2725.2	2312.9	1882.2	1475.8	1104.8	85.3
32°	3744.6	3680.8	3531.2	3287.9	2960.9	2579.4	2171.3	1747.3	1356.9	1017.0	78.2
33°	3519.4	3455.1	3294.6	3066.4	2767.6	2394.5	1983.5	1602.3	1221.6	912.3	72.3
34°	3237.4	3178.6	3040.3	2810.5	2523.9	2160.4	1767.5	1401.9	1081.2	808.5	66.0
35°	2914.7	2821.0	2695.8	2513.8	2234.3	1868.8	1534.3	1215.3	936.7	699.7	59.3
36°	2478.1	2494.9	2362.1	2139.4	1907.8	1621.2	1300.2	1013.2	783.3	596.3	53.4
37°	2091.1	2064.6	1980.1	1807.8	1606.1	1321.6	1089.6	858.9	658.9	504.3	47.1
38°	1686.8	1692.7	1609.9	1477.5	1277.5	1086.7	877.0	705.6	551.3	429.1	41.2
39°	1320.4	1315.7	1293.5	1170.8	989.6	864.4	710.6	585.0	459.3	361.8	34.9
40°	994.7	1002.2	950.1	876.2	770.7	667.7	566.0	466.5	379.9	305.1	27.3
42.5°	483.7	495.4	461.0	442.1	395.4	355.1	299.6	244.6	208.0	179.9	12.2
45°	235.7	229.0	226.1	216.8	205.9	184.1	163.0	139.9	122.3	105.5	7.6
47.5°	120.6	117.2	117.2	113.5	109.7	102.5	92.0	84.5	76.1	65.6	2.9
50°	36.1	35.7	35.3	35.7	34.5	35.7	36.6	37.0	33.6	33.2	0.8
52.5°	14.3	14.7	14.3	15.5	15.5	15.1	15.5	15.1	14.7	13.0	0.0
55°	4.2	4.2	4.2	4.2	4.2	4.2	4.6	5.0	4.6	5.0	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°	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	16.8	14.7	12.2	10.1	9.2	8.8
5°	18.1	13.4	9.2	7.1	6.3	5.9
7.5°	19.3	12.2	7.1	5.0	3.8	3.4
10°	20.2	10.5	5.5	2.9	2.1	2.1
12.5°	20.2	8.4	3.8	1.7	1.3	1.3
15°	19.8	7.1	2.5	1.3	0.8	0.8
17.5°	19.3	5.5	1.7	0.8	0.4	0.8
20°	18.1	4.2	0.8	0.4	0.4	0.4
21°	17.6	3.8	0.8	0.4	0.4	0.4
22°	16.8	3.4	0.4	0.0	0.4	0.4
23°	16.0	2.5	0.4	0.0	0.0	0.0
24°	14.7	2.1	0.4	0.0	0.0	0.0
25°	13.9	2.1	0.4	0.0	0.0	0.0
26°	13.0	1.3	0.0	0.0	0.0	0.0
27°	11.8	0.8	0.0	0.0	0.0	0.0
28°	10.9	0.8	0.0	0.0	0.0	0.0
29°	9.7	0.8	0.0	0.0	0.0	0.0
30°	8.4	0.8	0.0	0.0	0.0	0.0
31°	6.7	0.4	0.0	0.0	0.0	0.0
32°	5.5	0.4	0.0	0.0	0.0	0.0
33°	3.8	0.4	0.0	0.0	0.0	0.0
34°	2.5	0.4	0.0	0.0	0.0	0.0
35°	2.1	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.4	0.0	0.0	0.0	0.4
37°	1.3	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	1.3
52.5°	0.0	0.8	0.4	0.8	1.3	1.7
55°	0.4	0.8	0.8	1.3	1.7	2.1
57.5°	0.4	1.3	1.3	1.7	2.1	2.1
60°	0.8	1.3	1.7	1.7	2.5	2.5
62.5°	0.8	1.7	1.7	1.7	2.5	2.5
65°	0.8	1.7	1.7	2.1	2.5	2.5
67.5°	0.8	1.7	1.7	1.7	2.1	2.5
70°	0.8	1.7	1.3	1.7	2.1	2.1
72.5°	0.8	1.7	1.3	1.3	1.7	2.1
75°	0.8	1.7	1.3	1.3	1.7	1.7
77.5°	0.8	1.3	1.3	0.8	1.3	1.3
80°	0.8	1.3	0.8	0.8	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.3	0.8	0.4	0.8	0.8
85°	0.8	1.3	0.8	0.4	0.4	0.4
87.5°	0.8	1.3	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)