

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: P1343480

Luminaire Tested: P3A13R159727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343480
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: P3A13R159727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

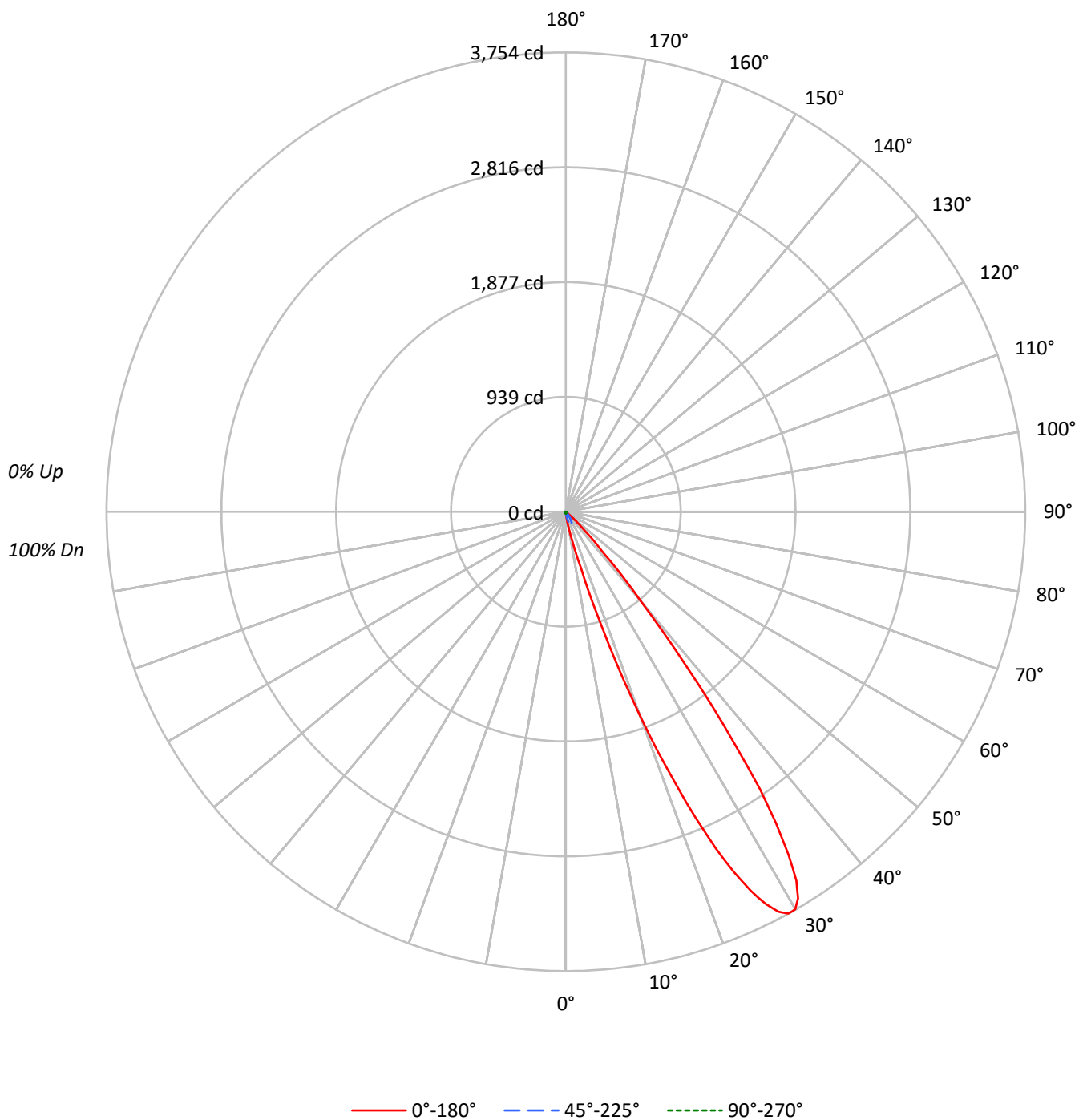
Lumens per Lamp: N/A
Luminaire Lumens: 410.0 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2982	2982	2982	2982	2982
5°	6405	4733	2818	1497	1233
10°	28412	8973	2227	623	445
15°	107469	20727	1544	272	182
20°	413316	29216	933	93	93
25°	785949	27413	484	0	0
30°	949463	22105	203	0	0
35°	740517	15044	107	0	0
40°	270221	7414	115	0	115
45°	69372	2233	124	0	248
50°	11701	273	136	136	409
55°	1529	0	306	459	765
60°	175	175	526	702	1053
65°	208	208	830	1038	1245
70°	256	256	1026	1026	1282
75°	339	339	1356	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 69372 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	31.4	7.7
20°-30°	174.3	42.5
30°-40°	168.3	41.1
40°-50°	29.3	7.1
50°-60°	2.1	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°	207.5	50.6
0°-40°	375.9	91.7
0°-60°	407.3	99.3
0°-90°	410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	410.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	29	22	13	7	6	6
15°	473	91	7	1	1	211
25°	3248	113	2	0	0	1452
35°	2766	56	0	0	0	1591
45°	224	7	0	0	1	240
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°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	19.9	19.1	19.5	19.5	19.5	19.5	19.5	18.7	18.7	19.1	17.1
5°	29.1	29.1	28.7	29.1	29.1	28.7	27.9	27.5	27.5	26.7	21.5
7.5°	58.2	57.4	57.4	56.6	52.6	51.4	50.7	48.7	45.1	44.3	27.9
10°	127.6	128.0	125.2	121.6	121.2	115.3	113.3	109.7	102.9	96.1	40.3
12.5°	231.7	226.5	219.8	220.2	208.6	204.6	195.4	185.5	175.1	164.3	66.2
15°	473.4	458.7	467.4	445.9	421.6	394.0	366.1	331.0	301.1	269.2	91.3
17.5°	997.1	1011.4	987.1	895.0	838.3	771.7	678.0	587.5	510.1	447.9	111.7
20°	1771.2	1792.3	1709.8	1629.6	1492.0	1342.1	1185.7	1008.6	839.1	692.4	125.2
21°	2094.6	2081.9	2048.0	1919.6	1760.8	1586.9	1395.5	1200.1	994.7	804.0	126.4
22°	2407.3	2413.3	2334.3	2199.9	2034.8	1842.2	1608.5	1367.2	1145.8	895.0	124.4
23°	2718.8	2737.9	2633.5	2507.4	2299.6	2082.3	1811.9	1551.4	1277.8	999.1	120.4
24°	3007.2	2994.0	2923.4	2764.7	2542.5	2288.1	2007.3	1691.4	1386.3	1088.0	117.3
25°	3248.4	3246.8	3136.0	2981.6	2727.6	2445.6	2136.1	1805.9	1479.2	1148.2	113.3
26°	3445.9	3413.6	3326.2	3138.0	2887.1	2589.6	2241.8	1889.2	1531.5	1178.5	109.3
27°	3598.2	3575.1	3457.8	3262.0	3000.0	2670.9	2309.6	1930.7	1555.4	1188.5	104.1
28°	3700.7	3675.6	3550.8	3348.9	3062.2	2722.0	2345.5	1948.3	1555.4	1178.9	99.3
29°	3753.8	3719.5	3595.0	3378.9	3076.6	2728.0	2336.7	1931.1	1531.1	1149.4	93.7
30°	3749.8	3707.1	3576.7	3351.7	3033.9	2678.9	2287.7	1869.3	1476.1	1105.5	87.3
31°	3685.2	3637.3	3491.7	3260.0	2945.7	2586.4	2195.1	1786.3	1400.7	1048.5	81.0
32°	3553.9	3493.3	3351.3	3120.4	2810.1	2448.0	2060.7	1658.3	1287.8	965.2	74.2
33°	3340.2	3279.2	3126.8	2910.2	2626.7	2272.5	1882.5	1520.7	1159.4	865.9	68.6
34°	3072.6	3016.7	2885.5	2667.4	2395.4	2050.4	1677.5	1330.5	1026.2	767.3	62.6
35°	2766.3	2677.3	2558.5	2385.8	2120.6	1773.6	1456.1	1153.4	889.0	664.0	56.2
36°	2351.9	2367.8	2241.8	2030.4	1810.7	1538.7	1234.0	961.6	743.4	565.9	50.7
37°	1984.6	1959.4	1879.3	1715.8	1524.3	1254.3	1034.2	815.2	625.4	478.6	44.7
38°	1600.9	1606.5	1527.9	1402.3	1212.4	1031.4	832.4	669.6	523.3	407.2	39.1
39°	1253.1	1248.7	1227.6	1111.1	939.2	820.4	674.4	555.2	435.9	343.4	33.1
40°	944.0	951.2	901.7	831.6	731.4	633.7	537.2	442.7	360.5	289.5	25.9
42.5°	459.0	470.2	437.5	419.6	375.3	337.0	284.4	232.1	197.4	170.7	11.6
45°	223.7	217.4	214.6	205.8	195.4	174.7	154.7	132.8	116.1	100.1	7.2
47.5°	114.5	111.3	111.3	107.7	104.1	97.3	87.3	80.2	72.2	62.2	2.8
50°	34.3	33.9	33.5	33.9	32.7	33.9	34.7	35.1	31.9	31.5	0.8
52.5°	13.6	14.0	13.6	14.8	14.8	14.4	14.8	14.4	14.0	12.4	0.0
55°	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.8	4.4	4.8	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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CATALOG NUMBER: P3A13R159727DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	16.0	14.0	11.6	9.6	8.8	8.4
5°	17.1	12.8	8.8	6.8	6.0	5.6
7.5°	18.3	11.6	6.8	4.8	3.6	3.2
10°	19.1	10.0	5.2	2.8	2.0	2.0
12.5°	19.1	8.0	3.6	1.6	1.2	1.2
15°	18.7	6.8	2.4	1.2	0.8	0.8
17.5°	18.3	5.2	1.6	0.8	0.4	0.8
20°	17.1	4.0	0.8	0.4	0.4	0.4
21°	16.8	3.6	0.8	0.4	0.4	0.4
22°	16.0	3.2	0.4	0.0	0.4	0.4
23°	15.2	2.4	0.4	0.0	0.0	0.0
24°	14.0	2.0	0.4	0.0	0.0	0.0
25°	13.2	2.0	0.4	0.0	0.0	0.0
26°	12.4	1.2	0.0	0.0	0.0	0.0
27°	11.2	0.8	0.0	0.0	0.0	0.0
28°	10.4	0.8	0.0	0.0	0.0	0.0
29°	9.2	0.8	0.0	0.0	0.0	0.0
30°	8.0	0.8	0.0	0.0	0.0	0.0
31°	6.4	0.4	0.0	0.0	0.0	0.0
32°	5.2	0.4	0.0	0.0	0.0	0.0
33°	3.6	0.4	0.0	0.0	0.0	0.0
34°	2.4	0.4	0.0	0.0	0.0	0.0
35°	2.0	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.4	0.0	0.0	0.0	0.4
37°	1.2	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	1.2
52.5°	0.0	0.8	0.4	0.8	1.2	1.6
55°	0.4	0.8	0.8	1.2	1.6	2.0
57.5°	0.4	1.2	1.2	1.6	2.0	2.0
60°	0.8	1.2	1.6	1.6	2.4	2.4
62.5°	0.8	1.6	1.6	1.6	2.4	2.4
65°	0.8	1.6	1.6	2.0	2.4	2.4
67.5°	0.8	1.6	1.6	1.6	2.0	2.4
70°	0.8	1.6	1.2	1.6	2.0	2.0
72.5°	0.8	1.6	1.2	1.2	1.6	2.0
75°	0.8	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)