

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: P1343544

Luminaire Tested: P3A13R159827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343544
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: P3A13R159827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

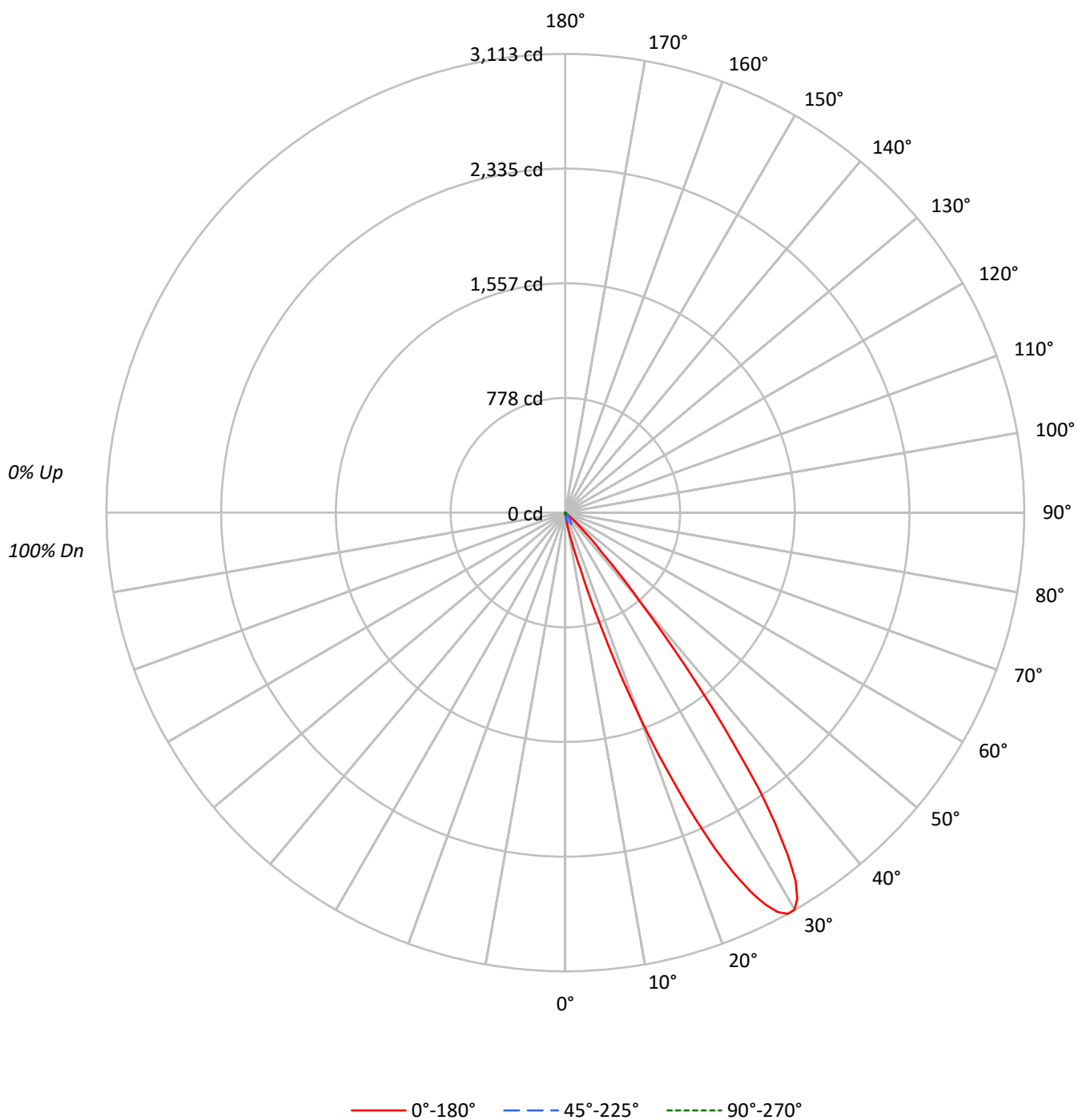
Lumens per Lamp: N/A
Luminaire Lumens: 340.0 lumens
Efficiency: N/A
Efficacy: 23.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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°	2456	2456	2456	2456	2456
5°	5305	3940	2333	1233	1013
10°	23558	7437	1848	512	379
15°	89127	17185	1271	227	159
20°	342750	24245	770	70	70
25°	651763	22719	411	0	0
30°	787362	18332	177	0	0
35°	614086	12474	80	0	0
40°	224077	6154	86	0	86
45°	57525	1861	93	0	217
50°	9688	239	102	102	341
55°	1262	0	268	382	650
60°	132	132	439	570	877
65°	156	156	675	882	1038
70°	192	192	833	833	1090
75°	254	254	1101	847	1101
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	26.1	7.7
20°-30°	144.5	42.5
30°-40°	139.6	41.1
40°-50°	24.3	7.1
50°-60°	1.7	0.5
60°-70°	1.0	0.3
70°-80°	0.8	0.2
80°-90°	0.4	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°	172.1	50.6
0°-40°	311.7	91.7
0°-60°	337.7	99.3
0°-90°	340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	340.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	24	18	11	6	5	5
15°	393	76	6	1	1	175
25°	2694	94	2	0	0	1204
35°	2294	47	0	0	0	1319
45°	186	6	0	0	1	199
55°	3	0	1	1	2	6
65°	0	0	1	2	2	0
75°	0	0	1	1	1	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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	16.5	15.9	16.2	16.2	16.2	16.2	16.2	15.5	15.5	15.9	14.2
5°	24.1	24.1	23.8	24.1	24.1	23.8	23.2	22.8	22.8	22.2	17.9
7.5°	48.3	47.6	47.6	47.0	43.7	42.7	42.0	40.3	37.4	36.7	23.2
10°	105.8	106.2	103.9	100.9	100.5	95.6	93.9	91.0	85.3	79.7	33.4
12.5°	192.2	187.9	182.2	182.6	173.0	169.7	162.1	153.8	145.2	136.3	54.9
15°	392.6	380.3	387.6	369.8	349.6	326.8	303.6	274.5	249.7	223.2	75.7
17.5°	826.8	838.7	818.6	742.2	695.2	640.0	562.2	487.2	423.0	371.4	92.6
20°	1468.8	1486.3	1417.9	1351.4	1237.3	1112.9	983.3	836.4	695.9	574.2	103.9
21°	1737.0	1726.4	1698.3	1591.8	1460.2	1316.0	1157.2	995.2	824.9	666.8	104.8
22°	1996.3	2001.3	1935.8	1824.3	1687.4	1527.7	1333.9	1133.8	950.2	742.2	103.2
23°	2254.6	2270.5	2183.8	2079.3	1907.0	1726.8	1502.5	1286.6	1059.7	828.5	99.9
24°	2493.7	2482.8	2424.3	2292.7	2108.4	1897.4	1664.6	1402.6	1149.6	902.2	97.2
25°	2693.8	2692.5	2600.6	2472.6	2261.9	2028.1	1771.4	1497.6	1226.7	952.2	93.9
26°	2857.5	2830.8	2758.3	2602.2	2394.2	2147.5	1859.1	1566.7	1270.0	977.3	90.6
27°	2983.9	2964.7	2867.5	2705.1	2487.8	2214.9	1915.3	1601.1	1289.9	985.6	86.3
28°	3068.9	3048.0	2944.5	2777.2	2539.4	2257.3	1945.0	1615.6	1289.9	977.7	82.4
29°	3112.9	3084.4	2981.2	2802.0	2551.3	2262.2	1937.8	1601.4	1269.7	953.2	77.7
30°	3109.6	3074.2	2966.0	2779.5	2515.9	2221.5	1897.1	1550.2	1224.0	916.8	72.4
31°	3056.0	3016.3	2895.6	2703.4	2442.8	2144.8	1820.4	1481.4	1161.5	869.5	67.1
32°	2947.2	2896.9	2779.2	2587.7	2330.4	2030.0	1708.9	1375.2	1067.9	800.4	61.5
33°	2769.9	2719.3	2593.0	2413.4	2178.2	1884.5	1561.1	1261.1	961.4	718.0	56.9
34°	2548.0	2501.7	2392.9	2212.0	1986.4	1700.3	1391.1	1103.3	851.0	636.3	51.9
35°	2294.0	2220.2	2121.7	1978.5	1758.5	1470.8	1207.5	956.5	737.2	550.7	46.6
36°	1950.3	1963.6	1859.1	1683.8	1501.5	1276.0	1023.3	797.4	616.5	469.3	42.0
37°	1645.7	1624.9	1558.4	1422.8	1264.1	1040.2	857.6	676.0	518.6	396.9	37.0
38°	1327.6	1332.2	1267.0	1162.9	1005.4	855.3	690.2	555.3	433.9	337.7	32.4
39°	1039.2	1035.5	1018.0	921.4	778.9	680.3	559.3	460.4	361.5	284.8	27.5
40°	782.8	788.8	747.8	689.6	606.6	525.5	445.5	367.1	299.0	240.1	21.5
42.5°	380.7	389.9	362.8	347.9	311.2	279.5	235.8	192.5	163.7	141.6	9.6
45°	185.5	180.3	177.9	170.7	162.1	144.9	128.3	110.1	96.2	83.0	6.0
47.5°	94.9	92.3	92.3	89.3	86.3	80.7	72.4	66.5	59.9	51.6	2.3
50°	28.4	28.1	27.8	28.1	27.1	28.1	28.8	29.1	26.5	26.1	0.7
52.5°	11.2	11.6	11.2	12.2	12.2	11.9	12.2	11.9	11.6	10.3	0.0
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.6	4.0	3.6	4.0	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	13.2	11.6	9.6	7.9	7.3	6.9
5°	14.2	10.6	7.3	5.6	5.0	4.6
7.5°	15.2	9.6	5.6	4.0	3.0	2.6
10°	15.9	8.3	4.3	2.3	1.7	1.7
12.5°	15.9	6.6	3.0	1.3	1.0	1.0
15°	15.5	5.6	2.0	1.0	0.7	0.7
17.5°	15.2	4.3	1.3	0.7	0.3	0.7
20°	14.2	3.3	0.7	0.3	0.3	0.3
21°	13.9	3.0	0.7	0.3	0.3	0.3
22°	13.2	2.6	0.3	0.0	0.3	0.3
23°	12.6	2.0	0.3	0.0	0.0	0.0
24°	11.6	1.7	0.3	0.0	0.0	0.0
25°	10.9	1.7	0.3	0.0	0.0	0.0
26°	10.3	1.0	0.0	0.0	0.0	0.0
27°	9.3	0.7	0.0	0.0	0.0	0.0
28°	8.6	0.7	0.0	0.0	0.0	0.0
29°	7.6	0.7	0.0	0.0	0.0	0.0
30°	6.6	0.7	0.0	0.0	0.0	0.0
31°	5.3	0.3	0.0	0.0	0.0	0.0
32°	4.3	0.3	0.0	0.0	0.0	0.0
33°	3.0	0.3	0.0	0.0	0.0	0.0
34°	2.0	0.3	0.0	0.0	0.0	0.0
35°	1.7	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.3	0.0	0.0	0.0	0.3
37°	1.0	0.3	0.0	0.0	0.0	0.3
38°	0.7	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.7
45°	0.0	0.3	0.0	0.0	0.3	0.7
47.5°	0.0	0.3	0.0	0.0	0.7	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.7	1.0	1.3
55°	0.3	0.7	0.7	1.0	1.3	1.7
57.5°	0.3	1.0	1.0	1.3	1.7	1.7
60°	0.7	1.0	1.3	1.3	2.0	2.0
62.5°	0.7	1.3	1.3	1.3	2.0	2.0
65°	0.7	1.3	1.3	1.7	2.0	2.0
67.5°	0.7	1.3	1.3	1.3	1.7	2.0
70°	0.7	1.3	1.0	1.3	1.7	1.7
72.5°	0.7	1.3	1.0	1.0	1.3	1.7
75°	0.7	1.3	1.0	1.0	1.3	1.3
77.5°	0.7	1.0	1.0	0.7	1.0	1.0
80°	0.7	1.0	0.7	0.7	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.0	0.7	0.3	0.7	0.7
85°	0.7	1.0	0.7	0.3	0.3	0.3
87.5°	0.7	1.0	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)