

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: P1344060

Luminaire Tested: P3A13R209830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

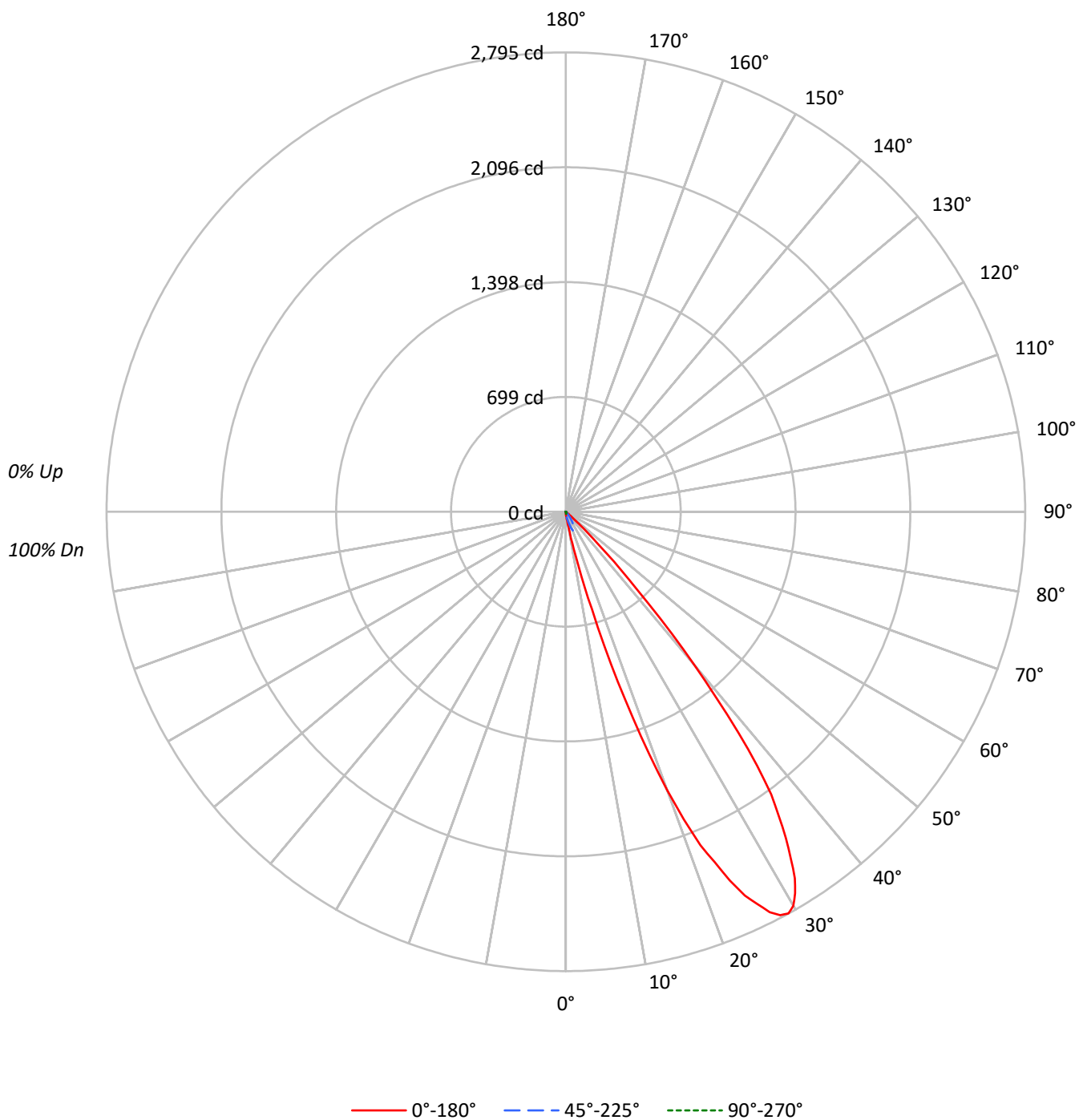
Lumens per Lamp: N/A
Luminaire Lumens: 392.1 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2960	2960	2960	2960	2960
5°	6802	5085	2818	1717	1497
10°	21465	8862	2293	957	713
15°	139025	16391	1703	318	91
20°	419593	28049	1167	0	0
25°	623141	28308	677	0	0
30°	700766	21522	279	0	0
35°	604610	12849	187	0	0
40°	348167	4380	0	0	0
45°	84908	1768	124	0	124
50°	10200	478	136	136	375
55°	1376	0	268	268	535
60°	175	0	482	482	789
65°	208	208	726	726	1090
70°	256	256	898	898	1154
75°	0	339	1186	932	1186
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 85466 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	36.3	9.3
20°-30°	158.3	40.4
30°-40°	159.5	40.7
40°-50°	32.0	8.2
50°-60°	1.6	0.4
60°-70°	1.1	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°	196.5	50.1
0°-40°	355.9	90.8
0°-60°	389.6	99.4
0°-90°	392.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	23	13	8	7	5
15°	612	72	8	1	0	240
25°	2576	117	3	0	0	1161
35°	2259	48	1	0	0	1344
45°	274	6	0	0	0	298
55°	4	0	1	1	1	7
65°	0	0	1	1	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°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2.5°	20.3	20.3	19.9	19.9	19.6	19.9	19.2	19.6	19.6	19.2	17.4
5°	30.9	31.7	31.3	31.3	30.9	31.3	30.6	29.9	29.2	29.2	23.1
7.5°	50.9	50.5	49.8	50.1	49.1	48.4	47.7	47.3	45.2	44.1	30.2
10°	96.4	98.5	96.7	96.4	90.0	89.6	85.4	79.3	74.0	71.1	39.8
12.5°	265.3	276.7	258.9	250.4	245.4	226.2	218.0	197.0	176.8	161.5	50.5
15°	612.4	640.5	604.6	607.1	577.2	522.4	474.4	433.2	384.4	335.4	72.2
17.5°	1199.9	1177.2	1157.6	1124.5	1063.7	983.3	879.8	774.9	684.2	589.3	100.6
20°	1798.1	1777.8	1733.4	1661.2	1583.7	1464.5	1341.5	1183.9	1031.3	888.4	120.2
21°	2004.0	1997.3	1924.4	1879.9	1760.4	1646.6	1504.7	1336.1	1164.4	995.1	123.4
22°	2187.9	2147.3	2108.2	2042.4	1923.6	1799.9	1642.0	1464.5	1278.2	1090.0	123.8
23°	2315.2	2296.7	2259.7	2185.4	2067.3	1921.9	1755.4	1569.8	1373.5	1157.2	122.7
24°	2456.0	2432.6	2378.5	2291.7	2172.6	2028.9	1839.0	1654.8	1441.4	1213.8	119.8
25°	2575.5	2538.9	2474.9	2381.3	2251.2	2102.9	1911.9	1709.5	1488.7	1251.8	117.0
26°	2653.1	2633.1	2551.0	2449.3	2309.9	2156.9	1962.0	1751.5	1519.3	1269.3	112.4
27°	2733.8	2697.2	2616.4	2499.4	2348.3	2192.1	1990.5	1771.8	1529.9	1270.0	106.7
28°	2780.0	2740.2	2648.8	2525.7	2373.2	2211.7	2006.9	1778.2	1527.8	1259.0	99.9
29°	2794.6	2744.4	2655.2	2530.0	2379.2	2213.1	2004.4	1768.9	1509.0	1231.9	92.1
30°	2767.6	2716.4	2631.7	2509.7	2360.0	2195.3	1981.3	1738.4	1475.5	1193.2	85.0
31°	2708.5	2665.1	2583.3	2461.0	2317.3	2153.7	1929.0	1688.2	1418.6	1141.2	76.8
32°	2630.6	2588.0	2507.6	2397.0	2250.8	2085.8	1857.5	1610.0	1351.8	1063.7	68.6
33°	2513.6	2489.1	2416.9	2311.3	2165.1	1988.7	1761.5	1516.4	1256.5	977.6	61.5
34°	2395.2	2364.3	2313.8	2198.2	2041.0	1865.0	1636.3	1387.3	1140.2	881.3	54.8
35°	2258.6	2240.2	2160.8	2068.4	1910.5	1730.5	1503.3	1261.8	1004.7	773.9	48.0
36°	2126.4	2097.9	2007.6	1909.8	1756.5	1562.0	1337.6	1110.7	887.7	673.2	40.9
37°	1934.3	1890.9	1826.6	1723.4	1544.2	1378.4	1173.6	963.1	743.6	564.4	33.1
38°	1708.5	1688.2	1598.9	1495.1	1346.8	1189.6	986.9	808.4	613.5	471.2	25.3
39°	1442.1	1441.8	1356.4	1281.4	1136.3	994.7	811.9	656.2	506.4	379.5	19.6
40°	1216.3	1174.3	1121.7	1027.4	916.1	795.9	635.9	513.5	393.0	305.8	15.3
42.5°	637.7	634.1	603.2	532.4	470.2	399.4	317.6	264.6	207.0	168.6	9.6
45°	273.8	275.6	254.3	243.6	219.4	189.9	160.4	133.7	114.5	92.8	5.7
47.5°	69.3	66.5	65.8	68.3	68.3	66.1	59.4	55.8	51.6	47.3	3.2
50°	29.9	29.2	28.5	28.5	26.7	25.6	23.8	21.7	19.9	17.8	1.4
52.5°	11.0	11.4	11.7	11.4	11.4	11.0	11.0	10.7	9.6	8.5	0.7
55°	3.6	3.6	3.6	3.9	3.9	4.3	4.3	4.3	4.3	3.9	0.0
57.5°	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
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	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	13.5	13.5	13.5	13.5	13.5	13.5
2.5°	15.6	13.9	11.7	10.0	9.6	9.2
5°	17.4	12.8	9.6	7.8	7.1	6.8
7.5°	18.8	11.7	7.8	5.7	5.0	4.6
10°	19.6	10.3	6.4	4.3	3.2	3.2
12.5°	19.9	8.9	4.6	2.8	1.8	1.8
15°	19.6	7.5	3.6	1.4	0.4	0.4
17.5°	17.8	6.0	2.1	0.4	0.0	0.0
20°	15.3	5.0	1.4	0.0	0.0	0.0
21°	14.6	4.3	1.1	0.0	0.0	0.0
22°	13.5	3.9	0.7	0.0	0.0	0.0
23°	12.4	3.6	0.7	0.0	0.0	0.0
24°	11.4	3.2	0.4	0.0	0.0	0.0
25°	10.7	2.8	0.4	0.0	0.0	0.0
26°	10.0	2.5	0.4	0.0	0.0	0.0
27°	8.9	2.1	0.0	0.0	0.0	0.0
28°	8.2	1.8	0.0	0.0	0.0	0.0
29°	7.1	1.4	0.0	0.0	0.0	0.0
30°	6.0	1.1	0.0	0.0	0.0	0.0
31°	5.0	1.1	0.0	0.0	0.0	0.0
32°	4.3	0.7	0.0	0.0	0.0	0.0
33°	3.6	0.7	0.0	0.0	0.0	0.0
34°	3.2	0.7	0.0	0.0	0.0	0.0
35°	2.8	0.7	0.0	0.0	0.0	0.0
36°	2.1	0.4	0.0	0.0	0.0	0.0
37°	1.8	0.4	0.0	0.0	0.0	0.0
38°	1.4	0.4	0.0	0.0	0.0	0.0
39°	1.1	0.0	0.0	0.0	0.0	0.0
40°	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.4	1.1	1.1
55°	0.4	0.7	0.4	0.7	1.4	1.4
57.5°	0.4	0.7	0.7	1.1	1.4	1.8
60°	0.7	1.1	1.1	1.1	1.8	1.8
62.5°	0.7	1.1	1.4	1.4	1.8	2.1
65°	0.7	1.4	1.4	1.4	1.8	2.1
67.5°	1.1	1.4	1.4	1.4	1.8	2.1
70°	1.1	1.4	1.4	1.4	1.8	1.8
72.5°	1.1	1.4	1.1	1.4	1.4	1.8
75°	1.1	1.4	1.1	1.1	1.4	1.4
77.5°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	1.1	0.7	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)