

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: P1343991

Luminaire Tested: P3A13R209730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343991
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: P3A13R209730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

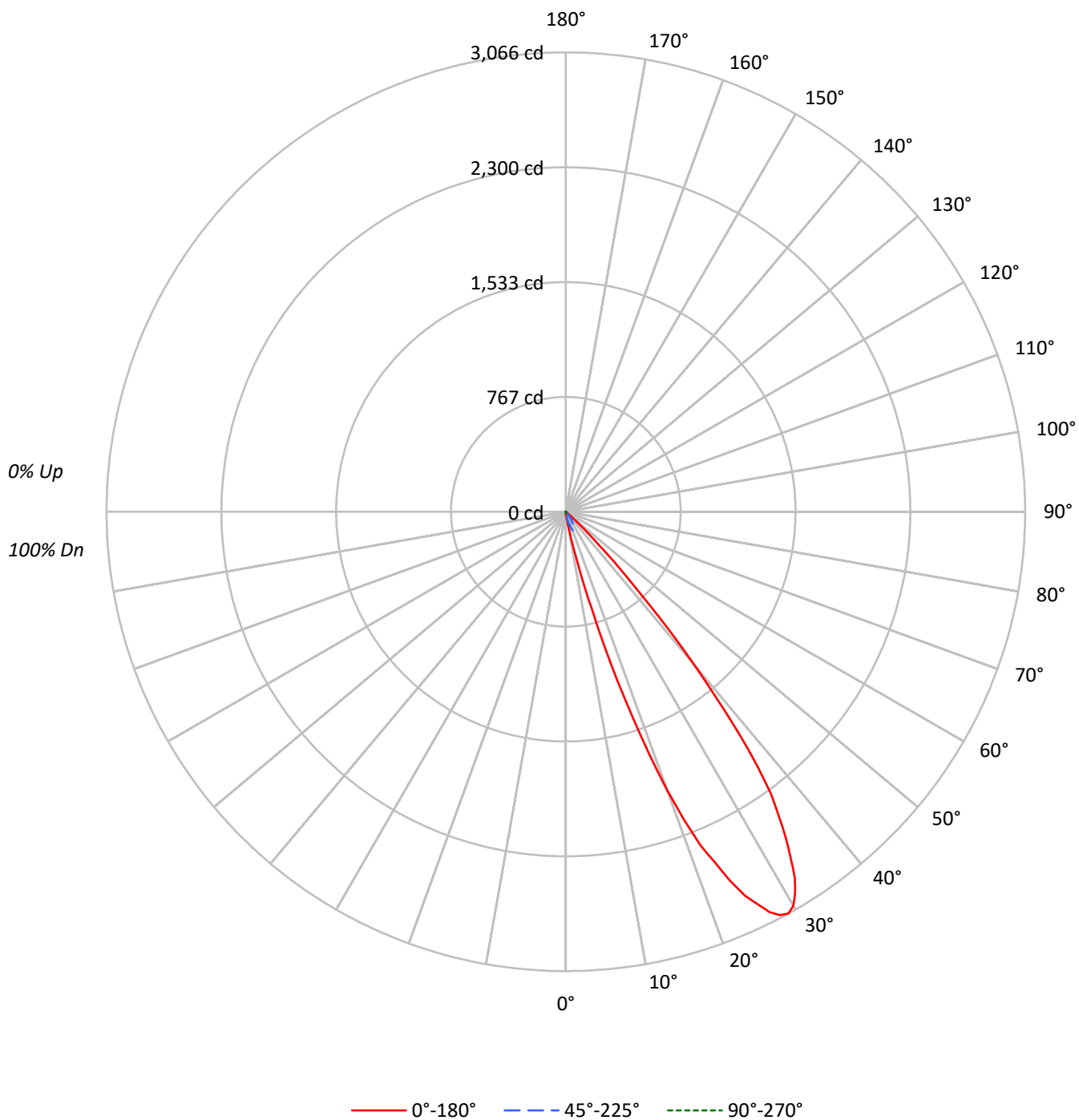
Lumens per Lamp: N/A
Luminaire Lumens: 430.1 lumens
Efficiency: N/A
Efficacy: 29.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3245	3245	3245	3245	3245
5°	7462	5591	3082	1893	1629
10°	23536	9730	2516	1047	779
15°	152509	17980	1862	363	91
20°	460267	30779	1283	0	0
25°	683556	31042	750	0	0
30°	768701	23599	304	0	0
35°	663234	14107	214	0	0
40°	381916	4809	0	0	0
45°	93157	1923	124	0	124
50°	11189	546	136	136	409
55°	1491	0	306	306	612
60°	175	0	526	526	877
65°	208	208	830	830	1193
70°	256	256	1026	1026	1282
75°	0	339	1356	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 93746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	39.9	9.3
20°-30°	173.7	40.4
30°-40°	174.9	40.7
40°-50°	35.1	8.2
50°-60°	1.8	0.4
60°-70°	1.2	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°	215.5	50.1
0°-40°	390.5	90.8
0°-60°	427.3	99.4
0°-90°	430.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	430.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	34	25	14	9	7	5
15°	672	79	8	2	0	263
25°	2825	128	3	0	0	1274
35°	2478	53	1	0	0	1474
45°	300	6	0	0	0	327
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°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
2.5°	22.2	22.2	21.8	21.8	21.5	21.8	21.1	21.5	21.5	21.1	19.1
5°	33.9	34.7	34.3	34.3	33.9	34.3	33.5	32.8	32.0	32.0	25.4
7.5°	55.8	55.4	54.6	55.0	53.8	53.1	52.3	51.9	49.5	48.4	33.2
10°	105.7	108.1	106.1	105.7	98.7	98.3	93.6	87.0	81.1	78.0	43.7
12.5°	291.0	303.5	284.0	274.6	269.2	248.1	239.1	216.1	193.9	177.1	55.4
15°	671.8	702.6	663.2	665.9	633.2	573.1	520.4	475.2	421.7	367.9	79.2
17.5°	1316.2	1291.3	1269.8	1233.5	1166.8	1078.7	965.1	850.1	750.6	646.4	110.4
20°	1972.4	1950.2	1901.4	1822.2	1737.2	1606.5	1471.5	1298.7	1131.3	974.5	131.9
21°	2198.3	2190.9	2110.9	2062.1	1931.1	1806.2	1650.6	1465.7	1277.2	1091.5	135.4
22°	2400.0	2355.5	2312.6	2240.4	2110.1	1974.4	1801.1	1606.5	1402.1	1195.7	135.8
23°	2539.6	2519.3	2478.8	2397.2	2267.7	2108.2	1925.6	1722.0	1506.6	1269.4	134.6
24°	2694.1	2668.4	2609.1	2513.9	2383.2	2225.6	2017.3	1815.2	1581.1	1331.5	131.5
25°	2825.2	2785.0	2714.8	2612.2	2469.4	2306.7	2097.2	1875.3	1633.0	1373.2	128.3
26°	2910.2	2888.4	2798.3	2686.7	2533.8	2366.0	2152.2	1921.3	1666.6	1392.3	123.3
27°	2998.8	2958.6	2870.1	2741.7	2575.9	2404.6	2183.5	1943.5	1678.3	1393.1	117.0
28°	3049.5	3005.8	2905.6	2770.6	2603.2	2426.1	2201.4	1950.6	1675.9	1381.0	109.6
29°	3065.5	3010.5	2912.6	2775.3	2609.8	2427.7	2198.7	1940.4	1655.2	1351.3	101.0
30°	3035.9	2979.7	2886.8	2753.0	2588.8	2408.2	2173.3	1906.9	1618.6	1308.8	93.2
31°	2971.1	2923.5	2833.8	2699.6	2542.0	2362.5	2116.0	1851.9	1556.2	1251.9	84.3
32°	2885.7	2838.8	2750.7	2629.4	2469.0	2288.0	2037.6	1766.0	1482.8	1166.8	75.3
33°	2757.3	2730.4	2651.2	2535.3	2375.0	2181.5	1932.2	1663.4	1378.3	1072.4	67.5
34°	2627.4	2593.5	2538.1	2411.3	2238.9	2045.7	1794.9	1521.8	1250.7	966.7	60.1
35°	2477.6	2457.3	2370.3	2268.9	2095.7	1898.3	1649.0	1384.1	1102.1	848.9	52.7
36°	2332.5	2301.3	2202.2	2094.9	1926.8	1713.4	1467.2	1218.3	973.7	738.5	44.9
37°	2121.8	2074.2	2003.6	1890.5	1693.9	1512.1	1287.4	1056.4	815.7	619.1	36.3
38°	1874.1	1851.9	1753.9	1640.0	1477.4	1304.9	1082.6	886.7	672.9	516.9	27.7
39°	1581.9	1581.5	1487.9	1405.6	1246.4	1091.1	890.6	719.8	555.5	416.2	21.5
40°	1334.2	1288.1	1230.4	1127.0	1004.9	873.1	697.5	563.3	431.1	335.5	16.8
42.5°	699.5	695.6	661.6	584.0	515.7	438.1	348.4	290.2	227.0	184.9	10.5
45°	300.4	302.3	278.9	267.2	240.7	208.3	175.9	146.7	125.6	101.8	6.2
47.5°	76.1	73.0	72.2	74.9	74.9	72.6	65.1	61.2	56.6	51.9	3.5
50°	32.8	32.0	31.2	31.2	29.3	28.1	26.1	23.8	21.8	19.5	1.6
52.5°	12.1	12.5	12.9	12.5	12.5	12.1	12.1	11.7	10.5	9.4	0.8
55°	3.9	3.9	3.9	4.3	4.3	4.7	4.7	4.7	4.7	4.3	0.0
57.5°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	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°	14.8	14.8	14.8	14.8	14.8	14.8
2.5°	17.2	15.2	12.9	10.9	10.5	10.1
5°	19.1	14.0	10.5	8.6	7.8	7.4
7.5°	20.7	12.9	8.6	6.2	5.5	5.1
10°	21.5	11.3	7.0	4.7	3.5	3.5
12.5°	21.8	9.8	5.1	3.1	2.0	2.0
15°	21.5	8.2	3.9	1.6	0.4	0.4
17.5°	19.5	6.6	2.3	0.4	0.0	0.0
20°	16.8	5.5	1.6	0.0	0.0	0.0
21°	16.0	4.7	1.2	0.0	0.0	0.0
22°	14.8	4.3	0.8	0.0	0.0	0.0
23°	13.7	3.9	0.8	0.0	0.0	0.0
24°	12.5	3.5	0.4	0.0	0.0	0.0
25°	11.7	3.1	0.4	0.0	0.0	0.0
26°	10.9	2.7	0.4	0.0	0.0	0.0
27°	9.8	2.3	0.0	0.0	0.0	0.0
28°	9.0	2.0	0.0	0.0	0.0	0.0
29°	7.8	1.6	0.0	0.0	0.0	0.0
30°	6.6	1.2	0.0	0.0	0.0	0.0
31°	5.5	1.2	0.0	0.0	0.0	0.0
32°	4.7	0.8	0.0	0.0	0.0	0.0
33°	3.9	0.8	0.0	0.0	0.0	0.0
34°	3.5	0.8	0.0	0.0	0.0	0.0
35°	3.1	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.4	0.0	0.0	0.0	0.0
37°	2.0	0.4	0.0	0.0	0.0	0.0
38°	1.6	0.4	0.0	0.0	0.0	0.0
39°	1.2	0.0	0.0	0.0	0.0	0.0
40°	1.2	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	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.4	1.2	1.2
55°	0.4	0.8	0.4	0.8	1.6	1.6
57.5°	0.4	0.8	0.8	1.2	1.6	2.0
60°	0.8	1.2	1.2	1.2	2.0	2.0
62.5°	0.8	1.2	1.6	1.6	2.0	2.3
65°	0.8	1.6	1.6	1.6	2.0	2.3
67.5°	1.2	1.6	1.6	1.6	2.0	2.3
70°	1.2	1.6	1.6	1.6	2.0	2.0
72.5°	1.2	1.6	1.2	1.6	1.6	2.0
75°	1.2	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	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)