

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: P1344028

Luminaire Tested: P3A13R209740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344028
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: P3A13R209740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

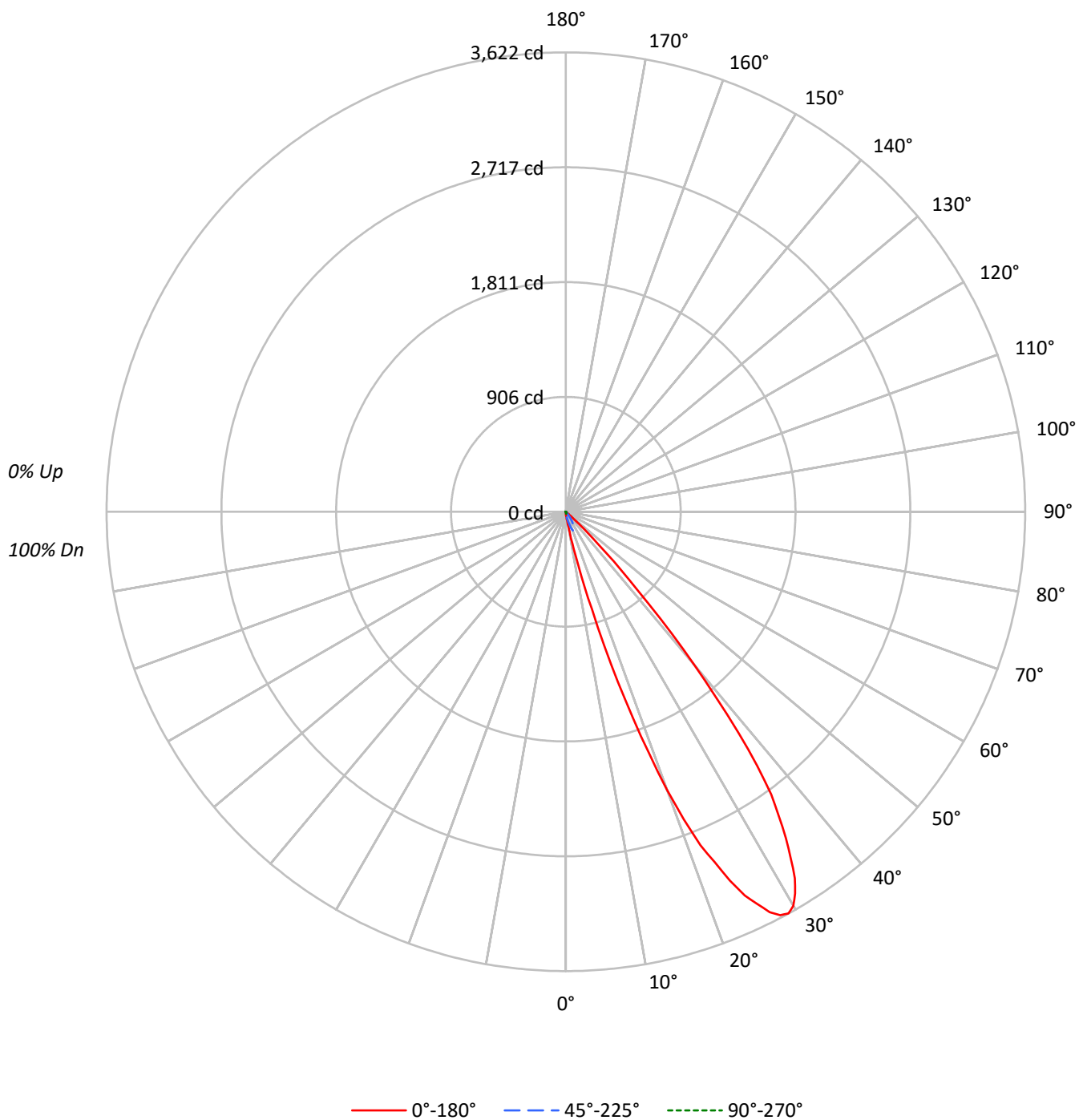
Lumens per Lamp: N/A
Luminaire Lumens: 508.0 lumens
Efficiency: N/A
Efficacy: 34.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	76	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°	3837	3837	3837	3837	3837
5°	8827	6604	3654	2223	1937
10°	27811	11489	2984	1225	913
15°	180160	21249	2202	409	114
20°	543761	36356	1517	0	0
25°	807555	36680	895	0	0
30°	908114	27878	354	0	0
35°	783535	16650	241	0	0
40°	451188	5668	0	0	0
45°	110058	2295	155	0	155
50°	13202	614	171	171	478
55°	1759	0	344	344	688
60°	219	0	614	614	1009
65°	259	259	934	934	1453
70°	321	321	1154	1154	1475
75°	0	424	1525	1186	1525
80°	0	631	1768	1137	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 110771 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	47.1	9.3
20°-30°	205.2	40.4
30°-40°	206.6	40.7
40°-50°	41.5	8.2
50°-60°	2.1	0.4
60°-70°	1.4	0.3
70°-80°	1.2	0.2
80°-90°	0.6	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°	254.6	50.1
0°-40°	461.3	90.8
0°-60°	504.8	99.4
0°-90°	508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	40	30	17	10	9	6
15°	794	94	10	2	0	311
25°	3338	152	4	0	0	1505
35°	2927	62	1	0	0	1742
45°	355	7	0	0	0	386
55°	5	0	1	1	2	9
65°	0	0	2	2	3	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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	26.3	26.3	25.8	25.8	25.3	25.8	24.9	25.3	25.3	24.9	22.6
5°	40.1	41.0	40.6	40.6	40.1	40.6	39.6	38.7	37.8	37.8	30.0
7.5°	65.9	65.4	64.5	65.0	63.6	62.7	61.8	61.3	58.5	57.1	39.2
10°	124.9	127.7	125.4	124.9	116.6	116.1	110.6	102.8	95.9	92.2	51.6
12.5°	343.8	358.6	335.5	324.5	318.0	293.1	282.5	255.3	229.1	209.2	65.4
15°	793.6	830.0	783.5	786.7	748.0	677.0	614.8	561.3	498.2	434.6	93.6
17.5°	1555.0	1525.5	1500.2	1457.3	1378.5	1274.3	1140.2	1004.2	886.7	763.7	130.4
20°	2330.2	2303.9	2246.3	2152.8	2052.3	1897.9	1738.4	1534.3	1336.5	1151.3	155.8
21°	2597.0	2588.3	2493.8	2436.2	2281.3	2133.9	1950.0	1731.5	1508.9	1289.5	159.9
22°	2835.3	2782.8	2732.1	2646.8	2492.9	2332.5	2127.9	1897.9	1656.4	1412.6	160.4
23°	3000.3	2976.3	2928.4	2832.1	2679.1	2490.6	2274.9	2034.3	1779.9	1499.7	159.0
24°	3182.8	3152.4	3082.3	2969.9	2815.5	2629.3	2383.2	2144.5	1867.9	1573.0	155.3
25°	3337.7	3290.2	3207.2	3086.0	2917.3	2725.2	2477.7	2215.4	1929.2	1622.3	151.6
26°	3438.1	3412.3	3305.9	3174.1	2993.4	2795.2	2542.7	2269.8	1968.9	1644.9	145.6
27°	3542.8	3495.3	3390.7	3239.0	3043.2	2840.8	2579.5	2296.1	1982.7	1645.8	138.3
28°	3602.7	3551.1	3432.6	3273.1	3075.4	2866.2	2600.7	2304.4	1979.9	1631.5	129.5
29°	3621.6	3556.6	3440.9	3278.7	3083.3	2868.0	2597.5	2292.4	1955.5	1596.5	119.4
30°	3586.5	3520.2	3410.5	3252.4	3058.4	2845.0	2567.5	2252.8	1912.2	1546.2	110.1
31°	3510.0	3453.8	3347.8	3189.3	3003.1	2791.1	2499.8	2187.8	1838.4	1479.0	99.5
32°	3409.1	3353.8	3249.6	3106.3	2916.9	2703.0	2407.2	2086.4	1751.8	1378.5	88.9
33°	3257.5	3225.7	3132.1	2995.2	2805.8	2577.2	2282.7	1965.2	1628.3	1266.9	79.7
34°	3104.0	3063.9	2998.5	2848.7	2645.0	2416.8	2120.5	1797.9	1477.6	1142.1	71.0
35°	2927.0	2903.1	2800.3	2680.5	2475.8	2242.6	1948.1	1635.2	1302.0	1002.9	62.2
36°	2755.6	2718.7	2601.6	2474.9	2276.3	2024.2	1733.4	1439.3	1150.3	872.4	53.0
37°	2506.7	2450.5	2367.1	2233.4	2001.1	1786.4	1520.9	1248.1	963.7	731.4	42.9
38°	2214.1	2187.8	2072.1	1937.5	1745.3	1541.6	1278.9	1047.6	795.0	610.7	32.7
39°	1868.9	1868.4	1757.8	1660.5	1472.5	1289.1	1052.2	850.3	656.3	491.8	25.3
40°	1576.2	1521.8	1453.6	1331.5	1187.2	1031.4	824.0	665.5	509.3	396.4	19.8
42.5°	826.4	821.7	781.6	689.9	609.3	517.6	411.6	342.9	268.2	218.5	12.4
45°	354.9	357.2	329.5	315.7	284.4	246.1	207.9	173.3	148.4	120.3	7.4
47.5°	89.9	86.2	85.3	88.5	88.5	85.7	77.0	72.4	66.8	61.3	4.1
50°	38.7	37.8	36.9	36.9	34.6	33.2	30.9	28.1	25.8	23.0	1.8
52.5°	14.3	14.7	15.2	14.7	14.7	14.3	14.3	13.8	12.4	11.1	0.9
55°	4.6	4.6	4.6	5.1	5.1	5.5	5.5	5.5	5.5	5.1	0.0
57.5°	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	20.3	18.0	15.2	12.9	12.4	12.0
5°	22.6	16.6	12.4	10.1	9.2	8.8
7.5°	24.4	15.2	10.1	7.4	6.5	6.0
10°	25.3	13.4	8.3	5.5	4.1	4.1
12.5°	25.8	11.5	6.0	3.7	2.3	2.3
15°	25.3	9.7	4.6	1.8	0.5	0.5
17.5°	23.0	7.8	2.8	0.5	0.0	0.0
20°	19.8	6.5	1.8	0.0	0.0	0.0
21°	18.9	5.5	1.4	0.0	0.0	0.0
22°	17.5	5.1	0.9	0.0	0.0	0.0
23°	16.1	4.6	0.9	0.0	0.0	0.0
24°	14.7	4.1	0.5	0.0	0.0	0.0
25°	13.8	3.7	0.5	0.0	0.0	0.0
26°	12.9	3.2	0.5	0.0	0.0	0.0
27°	11.5	2.8	0.0	0.0	0.0	0.0
28°	10.6	2.3	0.0	0.0	0.0	0.0
29°	9.2	1.8	0.0	0.0	0.0	0.0
30°	7.8	1.4	0.0	0.0	0.0	0.0
31°	6.5	1.4	0.0	0.0	0.0	0.0
32°	5.5	0.9	0.0	0.0	0.0	0.0
33°	4.6	0.9	0.0	0.0	0.0	0.0
34°	4.1	0.9	0.0	0.0	0.0	0.0
35°	3.7	0.9	0.0	0.0	0.0	0.0
36°	2.8	0.5	0.0	0.0	0.0	0.0
37°	2.3	0.5	0.0	0.0	0.0	0.0
38°	1.8	0.5	0.0	0.0	0.0	0.0
39°	1.4	0.0	0.0	0.0	0.0	0.0
40°	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	0.9
50°	0.0	0.5	0.5	0.5	0.9	1.4
52.5°	0.0	0.9	0.5	0.5	1.4	1.4
55°	0.5	0.9	0.5	0.9	1.8	1.8
57.5°	0.5	0.9	0.9	1.4	1.8	2.3
60°	0.9	1.4	1.4	1.4	2.3	2.3
62.5°	0.9	1.4	1.8	1.8	2.3	2.8
65°	0.9	1.8	1.8	1.8	2.3	2.8
67.5°	1.4	1.8	1.8	1.8	2.3	2.8
70°	1.4	1.8	1.8	1.8	2.3	2.3
72.5°	1.4	1.8	1.4	1.8	1.8	2.3
75°	1.4	1.8	1.4	1.4	1.8	1.8
77.5°	0.9	1.4	1.4	0.9	1.4	1.4
80°	0.9	1.4	0.9	0.9	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.4	0.9	0.5	0.9	0.9
85°	0.9	1.4	0.9	0.5	0.5	0.5
87.5°	0.9	1.4	0.9	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)