

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: P1343980

Luminaire Tested: P3A13R209727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343980
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: P3A13R209727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

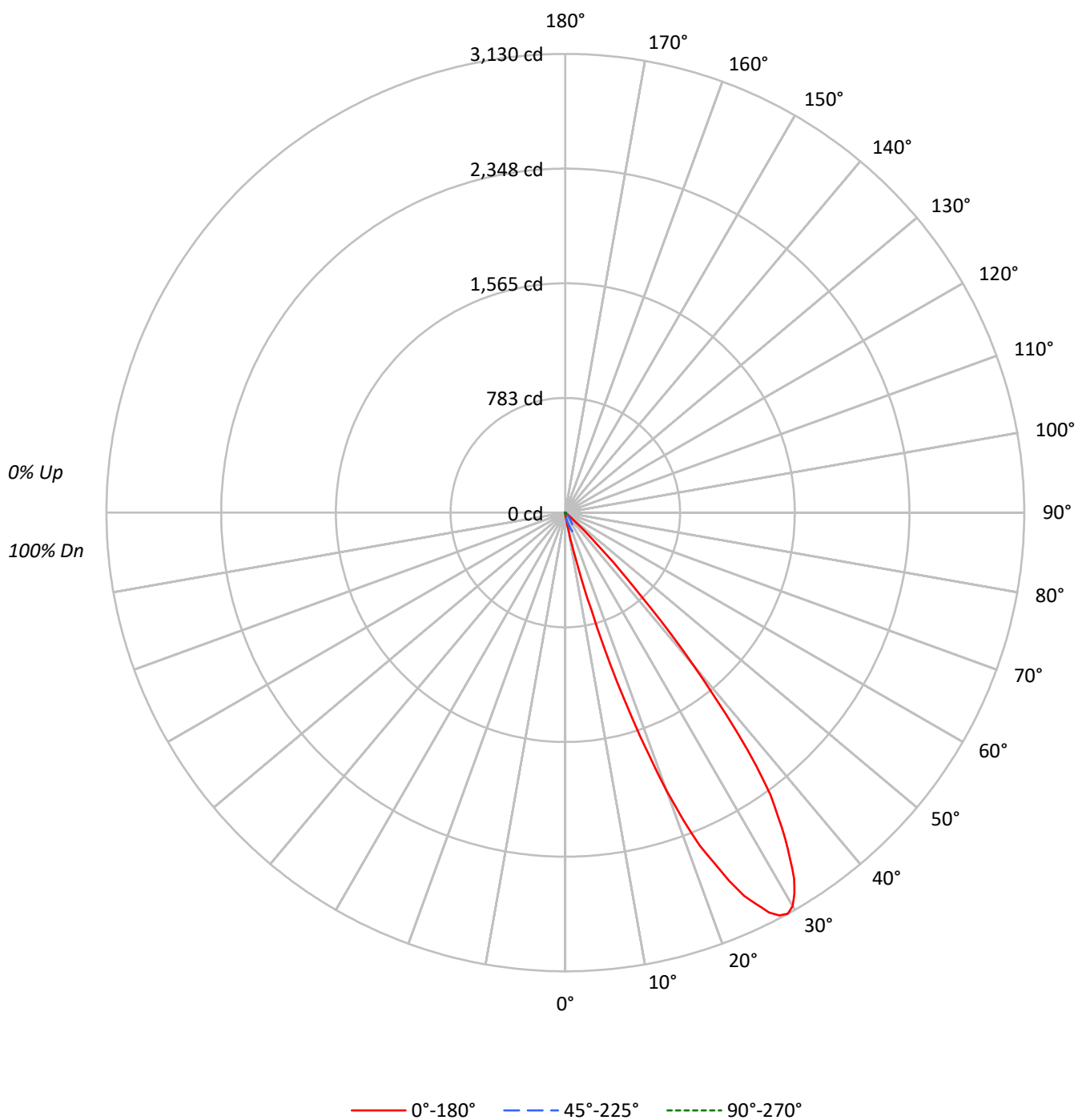
Lumens per Lamp: N/A
Luminaire Lumens: 439.0 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3311	3311	3311	3311	3311
5°	7638	5701	3148	1937	1673
10°	24025	9931	2583	1069	802
15°	155688	18366	1907	363	91
20°	469904	31409	1307	0	0
25°	697855	31695	774	0	0
30°	784779	24105	304	0	0
35°	677128	14402	214	0	0
40°	389902	4895	0	0	0
45°	95111	1985	124	0	124
50°	11428	546	136	136	409
55°	1529	0	306	306	612
60°	175	0	526	526	877
65°	208	208	830	830	1245
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: 95731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	40.7	9.3
20°-30°	177.3	40.4
30°-40°	178.6	40.7
40°-50°	35.8	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°	220.0	50.1
0°-40°	398.6	90.8
0°-60°	436.3	99.4
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	35	26	14	9	8	5
15°	686	81	8	2	0	269
25°	2884	131	3	0	0	1301
35°	2530	54	1	0	0	1505
45°	307	6	0	0	0	334
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°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	22.7	22.7	22.3	22.3	21.9	22.3	21.5	21.9	21.9	21.5	19.5
5°	34.7	35.4	35.0	35.0	34.7	35.0	34.3	33.5	32.7	32.7	25.9
7.5°	57.0	56.6	55.8	56.2	55.0	54.2	53.4	53.0	50.6	49.4	33.9
10°	107.9	110.3	108.3	107.9	100.8	100.4	95.6	88.8	82.8	79.7	44.6
12.5°	297.1	309.9	289.9	280.4	274.8	253.3	244.1	220.6	197.9	180.8	56.6
15°	685.8	717.3	677.1	679.9	646.4	585.1	531.3	485.1	430.5	375.6	80.9
17.5°	1343.8	1318.3	1296.4	1259.4	1191.2	1101.2	985.3	867.8	766.3	659.9	112.7
20°	2013.7	1991.0	1941.2	1860.4	1773.5	1640.1	1502.3	1325.9	1155.0	994.9	134.6
21°	2244.3	2236.7	2155.1	2105.3	1971.5	1844.0	1685.1	1496.3	1304.0	1114.4	138.2
22°	2450.2	2404.8	2361.0	2287.3	2154.3	2015.7	1838.8	1640.1	1431.4	1220.7	138.6
23°	2592.8	2572.1	2530.7	2447.4	2315.2	2152.3	1965.9	1758.0	1538.1	1296.0	137.4
24°	2750.5	2724.2	2663.7	2566.5	2433.1	2272.2	2059.5	1853.2	1614.2	1359.3	134.2
25°	2884.3	2843.3	2771.6	2666.9	2521.1	2355.0	2141.1	1914.5	1667.2	1401.9	131.0
26°	2971.1	2948.8	2856.8	2742.9	2586.8	2415.6	2197.3	1961.5	1701.4	1421.5	125.9
27°	3061.6	3020.5	2930.1	2799.1	2629.8	2455.0	2229.2	1984.2	1713.4	1422.2	119.5
28°	3113.3	3068.7	2966.4	2828.6	2657.7	2476.9	2247.5	1991.4	1711.0	1409.9	111.9
29°	3129.7	3073.5	2973.5	2833.3	2664.5	2478.5	2244.7	1981.0	1689.9	1379.6	103.2
30°	3099.4	3042.0	2947.3	2810.6	2643.0	2458.6	2218.8	1946.8	1652.5	1336.2	95.2
31°	3033.3	2984.7	2893.1	2756.1	2595.2	2412.0	2160.3	1890.6	1588.7	1278.1	86.0
32°	2946.1	2898.3	2808.3	2684.4	2520.7	2335.9	2080.2	1803.0	1513.9	1191.2	76.9
33°	2815.0	2787.5	2706.7	2588.4	2424.7	2227.2	1972.7	1698.3	1407.1	1094.9	68.9
34°	2682.4	2647.7	2591.2	2461.8	2285.7	2088.6	1832.5	1553.7	1276.9	986.9	61.3
35°	2529.5	2508.7	2419.9	2316.4	2139.5	1938.0	1683.5	1413.1	1125.1	866.7	53.8
36°	2381.3	2349.4	2248.3	2138.7	1967.1	1749.2	1497.9	1243.8	994.1	753.9	45.8
37°	2166.2	2117.6	2045.6	1930.1	1729.3	1543.7	1314.3	1078.5	832.8	632.1	37.0
38°	1913.3	1890.6	1790.7	1674.4	1508.3	1332.2	1105.2	905.3	687.0	527.7	28.3
39°	1615.0	1614.6	1519.0	1435.0	1272.5	1114.0	909.3	734.8	567.1	425.0	21.9
40°	1362.1	1315.1	1256.2	1150.6	1026.0	891.3	712.1	575.1	440.1	342.5	17.1
42.5°	714.1	710.1	675.5	596.2	526.5	447.3	355.7	296.3	231.8	188.8	10.8
45°	306.7	308.7	284.8	272.8	245.7	212.7	179.6	149.8	128.2	104.0	6.4
47.5°	77.7	74.5	73.7	76.5	76.5	74.1	66.5	62.5	57.8	53.0	3.6
50°	33.5	32.7	31.9	31.9	29.9	28.7	26.7	24.3	22.3	19.9	1.6
52.5°	12.3	12.7	13.1	12.7	12.7	12.3	12.3	11.9	10.8	9.6	0.8
55°	4.0	4.0	4.0	4.4	4.4	4.8	4.8	4.8	4.8	4.4	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°	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	17.5	15.5	13.1	11.2	10.8	10.4
5°	19.5	14.3	10.8	8.8	8.0	7.6
7.5°	21.1	13.1	8.8	6.4	5.6	5.2
10°	21.9	11.6	7.2	4.8	3.6	3.6
12.5°	22.3	10.0	5.2	3.2	2.0	2.0
15°	21.9	8.4	4.0	1.6	0.4	0.4
17.5°	19.9	6.8	2.4	0.4	0.0	0.0
20°	17.1	5.6	1.6	0.0	0.0	0.0
21°	16.3	4.8	1.2	0.0	0.0	0.0
22°	15.1	4.4	0.8	0.0	0.0	0.0
23°	13.9	4.0	0.8	0.0	0.0	0.0
24°	12.7	3.6	0.4	0.0	0.0	0.0
25°	11.9	3.2	0.4	0.0	0.0	0.0
26°	11.2	2.8	0.4	0.0	0.0	0.0
27°	10.0	2.4	0.0	0.0	0.0	0.0
28°	9.2	2.0	0.0	0.0	0.0	0.0
29°	8.0	1.6	0.0	0.0	0.0	0.0
30°	6.8	1.2	0.0	0.0	0.0	0.0
31°	5.6	1.2	0.0	0.0	0.0	0.0
32°	4.8	0.8	0.0	0.0	0.0	0.0
33°	4.0	0.8	0.0	0.0	0.0	0.0
34°	3.6	0.8	0.0	0.0	0.0	0.0
35°	3.2	0.8	0.0	0.0	0.0	0.0
36°	2.4	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	2.4
65°	0.8	1.6	1.6	1.6	2.0	2.4
67.5°	1.2	1.6	1.6	1.6	2.0	2.4
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)