

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: P1344092

Luminaire Tested: P3A13R209840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344092
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: P3A13R209840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

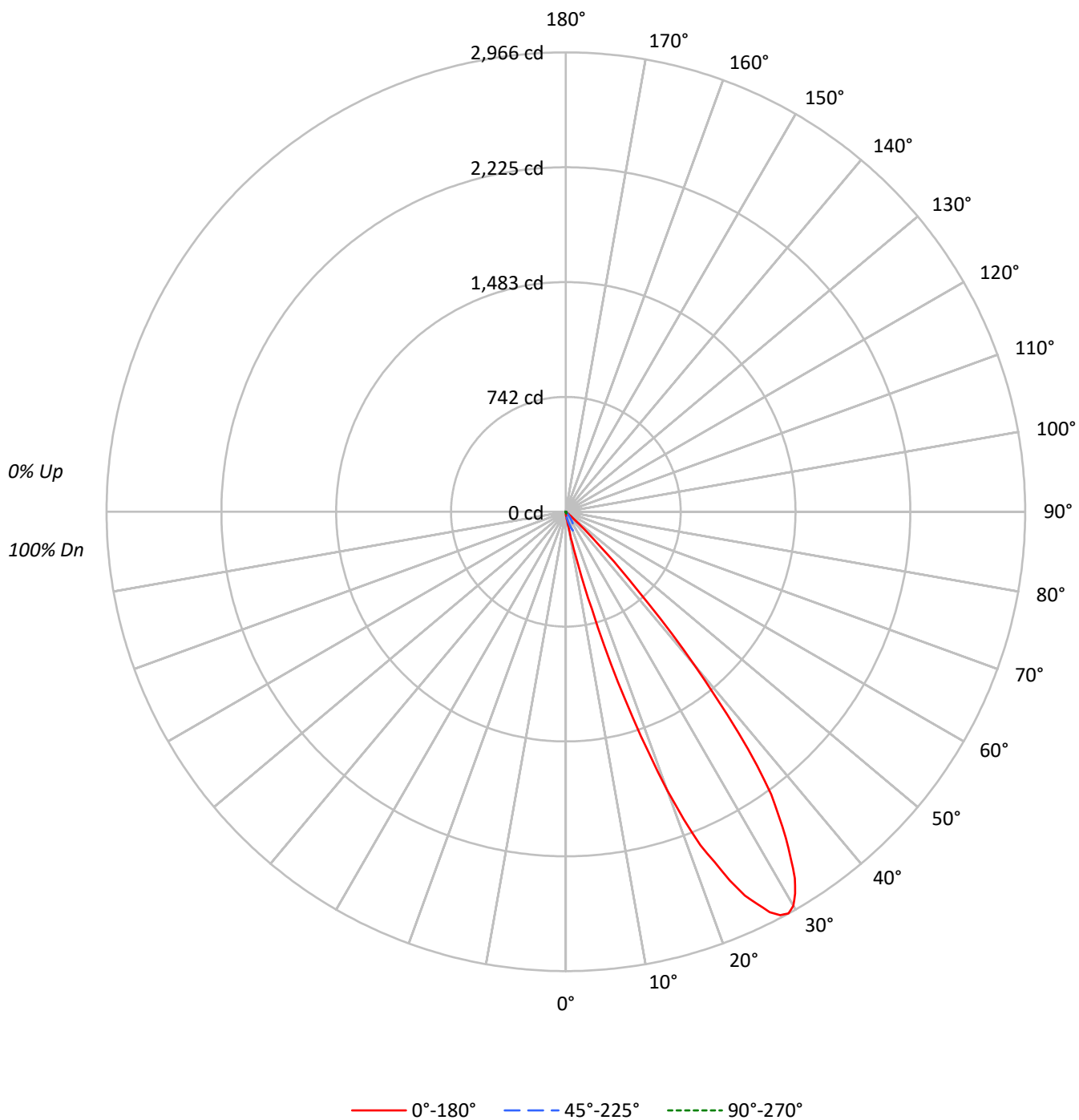
Lumens per Lamp: N/A
Luminaire Lumens: 416.0 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	3136	3136	3136	3136	3136
5°	7220	5393	2994	1827	1585
10°	22778	9419	2427	1002	757
15°	147538	17389	1793	341	91
20°	445285	29776	1237	0	0
25°	661296	30050	726	0	0
30°	743659	22839	279	0	0
35°	641632	13652	214	0	0
40°	369464	4637	0	0	0
45°	90118	1861	124	0	124
50°	10814	512	136	136	375
55°	1453	0	306	306	573
60°	175	0	482	482	833
65°	208	208	778	778	1193
70°	256	256	962	962	1218
75°	0	339	1271	932	1271
80°	0	505	1389	1010	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 90707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	38.6	9.3
20°-30°	168.0	40.4
30°-40°	169.2	40.7
40°-50°	33.9	8.2
50°-60°	1.7	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°	208.5	50.1
0°-40°	377.7	90.8
0°-60°	413.4	99.4
0°-90°	416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	416.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	33	24	14	8	7	5
15°	650	77	8	2	0	255
25°	2733	124	3	0	0	1232
35°	2397	51	1	0	0	1426
45°	291	6	0	0	0	316
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°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	21.5	21.5	21.1	21.1	20.8	21.1	20.4	20.8	20.8	20.4	18.5
5°	32.8	33.6	33.2	33.2	32.8	33.2	32.5	31.7	30.9	30.9	24.5
7.5°	54.0	53.6	52.8	53.2	52.1	51.3	50.6	50.2	47.9	46.8	32.1
10°	102.3	104.5	102.7	102.3	95.5	95.1	90.6	84.2	78.5	75.5	42.3
12.5°	281.5	293.6	274.8	265.7	260.4	240.0	231.4	209.1	187.6	171.3	53.6
15°	649.9	679.7	641.6	644.2	612.5	554.4	503.5	459.7	408.0	355.9	76.6
17.5°	1273.4	1249.2	1228.5	1193.4	1128.8	1043.5	933.7	822.4	726.1	625.4	106.8
20°	1908.2	1886.7	1839.5	1762.9	1680.6	1554.2	1423.6	1256.4	1094.5	942.8	127.6
21°	2126.7	2119.5	2042.2	1995.0	1868.2	1747.4	1596.8	1417.9	1235.6	1056.0	131.0
22°	2321.8	2278.8	2237.3	2167.5	2041.4	1910.1	1742.5	1554.2	1356.4	1156.8	131.3
23°	2456.9	2437.3	2398.1	2319.2	2193.9	2039.5	1862.9	1665.9	1457.6	1228.1	130.2
24°	2606.4	2581.5	2524.1	2432.0	2305.6	2153.1	1951.6	1756.1	1529.6	1288.1	127.2
25°	2733.2	2694.3	2626.4	2527.1	2389.0	2231.6	2029.0	1814.2	1579.8	1328.5	124.2
26°	2815.5	2794.3	2707.2	2599.2	2451.3	2289.0	2082.2	1858.7	1612.3	1347.0	119.3
27°	2901.2	2862.3	2776.6	2652.4	2492.0	2326.4	2112.4	1880.3	1623.6	1347.7	113.2
28°	2950.2	2907.9	2811.0	2680.4	2518.5	2347.1	2129.7	1887.1	1621.4	1336.0	106.1
29°	2965.7	2912.5	2817.7	2684.9	2524.9	2348.6	2127.1	1877.2	1601.4	1307.4	97.7
30°	2937.0	2882.7	2792.8	2663.4	2504.5	2329.8	2102.6	1844.8	1565.9	1266.2	90.2
31°	2874.4	2828.3	2741.5	2611.7	2459.2	2285.6	2047.1	1791.6	1505.5	1211.1	81.5
32°	2791.7	2746.4	2661.1	2543.7	2388.6	2213.5	1971.2	1708.5	1434.5	1128.8	72.8
33°	2667.5	2641.5	2564.9	2452.8	2297.7	2110.5	1869.3	1609.3	1333.4	1037.5	65.3
34°	2541.9	2509.0	2455.4	2332.8	2166.0	1979.1	1736.5	1472.3	1210.0	935.2	58.1
35°	2396.9	2377.3	2293.1	2195.0	2027.4	1836.5	1595.3	1339.1	1066.2	821.2	51.0
36°	2256.5	2226.3	2130.5	2026.7	1864.0	1657.6	1419.4	1178.7	942.0	714.4	43.4
37°	2052.7	2006.7	1938.4	1828.9	1638.7	1462.8	1245.5	1022.0	789.2	599.0	35.1
38°	1813.1	1791.6	1696.8	1586.6	1429.3	1262.4	1047.3	857.9	651.0	500.1	26.8
39°	1530.4	1530.0	1439.4	1359.8	1205.8	1055.6	861.6	696.3	537.4	402.7	20.8
40°	1290.7	1246.2	1190.4	1090.3	972.2	844.6	674.8	545.0	417.0	324.6	16.2
42.5°	676.7	672.9	640.1	565.0	498.9	423.8	337.0	280.8	219.7	178.9	10.2
45°	290.6	292.5	269.8	258.5	232.9	201.5	170.2	141.9	121.5	98.5	6.0
47.5°	73.6	70.6	69.8	72.5	72.5	70.2	63.0	59.3	54.7	50.2	3.4
50°	31.7	30.9	30.2	30.2	28.3	27.2	25.3	23.0	21.1	18.9	1.5
52.5°	11.7	12.1	12.5	12.1	12.1	11.7	11.7	11.3	10.2	9.1	0.8
55°	3.8	3.8	3.8	4.2	4.2	4.5	4.5	4.5	4.5	4.2	0.0
57.5°	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	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°	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	16.6	14.7	12.5	10.6	10.2	9.8
5°	18.5	13.6	10.2	8.3	7.5	7.2
7.5°	20.0	12.5	8.3	6.0	5.3	4.9
10°	20.8	10.9	6.8	4.5	3.4	3.4
12.5°	21.1	9.4	4.9	3.0	1.9	1.9
15°	20.8	7.9	3.8	1.5	0.4	0.4
17.5°	18.9	6.4	2.3	0.4	0.0	0.0
20°	16.2	5.3	1.5	0.0	0.0	0.0
21°	15.5	4.5	1.1	0.0	0.0	0.0
22°	14.3	4.2	0.8	0.0	0.0	0.0
23°	13.2	3.8	0.8	0.0	0.0	0.0
24°	12.1	3.4	0.4	0.0	0.0	0.0
25°	11.3	3.0	0.4	0.0	0.0	0.0
26°	10.6	2.6	0.4	0.0	0.0	0.0
27°	9.4	2.3	0.0	0.0	0.0	0.0
28°	8.7	1.9	0.0	0.0	0.0	0.0
29°	7.5	1.5	0.0	0.0	0.0	0.0
30°	6.4	1.1	0.0	0.0	0.0	0.0
31°	5.3	1.1	0.0	0.0	0.0	0.0
32°	4.5	0.8	0.0	0.0	0.0	0.0
33°	3.8	0.8	0.0	0.0	0.0	0.0
34°	3.4	0.8	0.0	0.0	0.0	0.0
35°	3.0	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.4	0.0	0.0	0.0	0.0
37°	1.9	0.4	0.0	0.0	0.0	0.0
38°	1.5	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	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.1
52.5°	0.0	0.8	0.4	0.4	1.1	1.1
55°	0.4	0.8	0.4	0.8	1.5	1.5
57.5°	0.4	0.8	0.8	1.1	1.5	1.9
60°	0.8	1.1	1.1	1.1	1.9	1.9
62.5°	0.8	1.1	1.5	1.5	1.9	2.3
65°	0.8	1.5	1.5	1.5	1.9	2.3
67.5°	1.1	1.5	1.5	1.5	1.9	2.3
70°	1.1	1.5	1.5	1.5	1.9	1.9
72.5°	1.1	1.5	1.1	1.5	1.5	1.9
75°	1.1	1.5	1.1	1.1	1.5	1.5
77.5°	0.8	1.1	1.1	0.8	1.1	1.1
80°	0.8	1.1	0.8	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.1	0.8	0.4	0.8	0.8
85°	0.8	1.1	0.8	0.4	0.4	0.4
87.5°	0.8	1.1	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)