

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: P1343951

Luminaire Tested: P3A13R209040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343951
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: P3A13R209040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

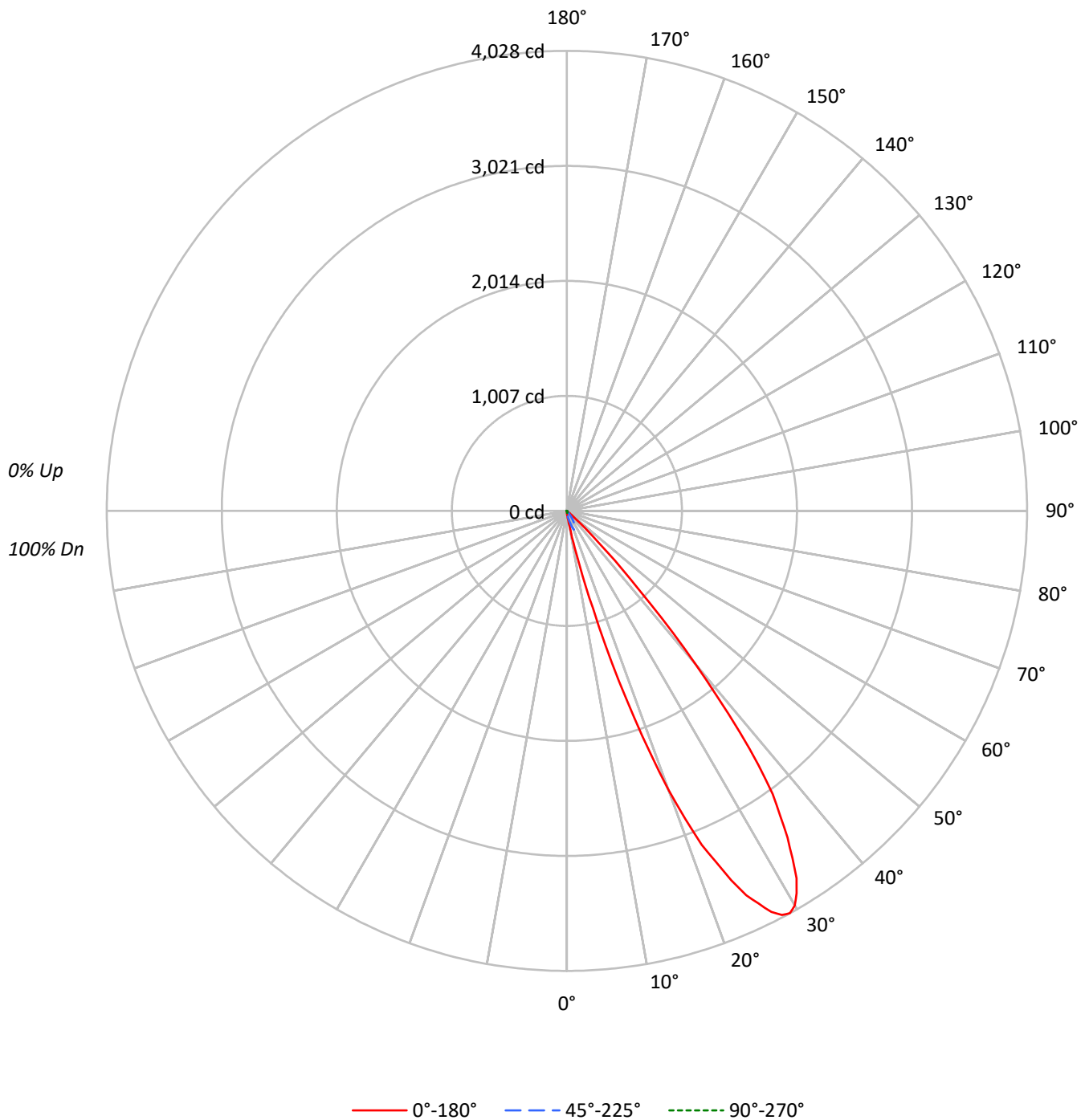
Lumens per Lamp: N/A
Luminaire Lumens: 565.0 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	4276	4276	4276	4276	4276
5°	9817	7330	4072	2487	2135
10°	30928	12781	3318	1381	1024
15°	200387	23632	2452	477	114
20°	604759	40440	1680	0	0
25°	898165	40793	992	0	0
30°	1010029	31017	380	0	0
35°	871472	18524	268	0	0
40°	501826	6298	0	0	0
45°	122400	2543	155	0	155
50°	14703	716	171	171	512
55°	1950	0	382	382	803
60°	219	0	658	658	1140
65°	259	259	1090	1090	1608
70°	321	321	1346	1346	1667
75°	0	424	1779	1271	1779
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 123207 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	52.4	9.3
20°-30°	228.2	40.4
30°-40°	229.8	40.7
40°-50°	46.1	8.2
50°-60°	2.3	0.4
60°-70°	1.5	0.3
70°-80°	1.3	0.2
80°-90°	0.7	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°	283.2	50.1
0°-40°	513.0	90.8
0°-60°	561.4	99.4
0°-90°	565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	45	33	18	11	10	7
15°	883	104	11	2	0	346
25°	3712	169	4	0	0	1674
35°	3256	69	1	0	0	1937
45°	395	8	0	0	0	430
55°	5	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
2.5°	29.2	29.2	28.7	28.7	28.2	28.7	27.7	28.2	28.2	27.7	25.1
5°	44.6	45.6	45.1	45.1	44.6	45.1	44.1	43.1	42.0	42.0	33.3
7.5°	73.3	72.8	71.8	72.3	70.7	69.7	68.7	68.2	65.1	63.6	43.6
10°	138.9	142.0	139.4	138.9	129.7	129.2	123.0	114.3	106.6	102.5	57.4
12.5°	382.4	398.8	373.2	360.9	353.7	326.0	314.2	284.0	254.8	232.7	72.8
15°	882.7	923.2	871.4	875.0	831.9	753.0	683.8	624.3	554.1	483.4	104.1
17.5°	1729.5	1696.7	1668.5	1620.8	1533.2	1417.3	1268.1	1116.9	986.2	849.4	145.1
20°	2591.6	2562.4	2498.4	2394.3	2282.6	2110.8	1933.5	1706.4	1486.5	1280.4	173.3
21°	2888.4	2878.7	2773.6	2709.5	2537.3	2373.3	2168.8	1925.8	1678.2	1434.2	177.9
22°	3153.4	3095.0	3038.6	2943.8	2772.6	2594.2	2366.6	2110.8	1842.2	1571.1	178.4
23°	3337.0	3310.3	3257.0	3149.9	2979.7	2770.0	2530.1	2262.6	1979.6	1668.0	176.8
24°	3539.9	3506.1	3428.2	3303.1	3131.4	2924.3	2650.6	2385.1	2077.5	1749.5	172.7
25°	3712.2	3659.4	3567.1	3432.3	3244.7	3030.9	2755.7	2464.0	2145.7	1804.3	168.6
26°	3823.9	3795.2	3676.8	3530.2	3329.3	3108.9	2828.0	2524.5	2189.8	1829.4	162.0
27°	3940.3	3887.5	3771.1	3602.5	3384.6	3159.6	2869.0	2553.7	2205.2	1830.5	153.8
28°	4006.9	3949.5	3817.8	3640.4	3420.5	3187.8	2892.5	2562.9	2202.1	1814.6	144.0
29°	4027.9	3955.6	3827.0	3646.6	3429.2	3189.8	2889.0	2549.6	2174.9	1775.6	132.8
30°	3989.0	3915.2	3793.2	3617.3	3401.5	3164.2	2855.6	2505.5	2126.7	1719.7	122.5
31°	3903.9	3841.3	3723.4	3547.1	3340.0	3104.2	2780.3	2433.3	2044.7	1644.9	110.7
32°	3791.6	3730.1	3614.3	3454.8	3244.2	3006.3	2677.3	2320.5	1948.4	1533.2	98.9
33°	3623.0	3587.6	3483.6	3331.3	3120.6	2866.4	2538.9	2185.7	1811.0	1409.1	88.7
34°	3452.3	3407.7	3334.9	3168.3	2941.7	2688.0	2358.4	1999.6	1643.4	1270.2	78.9
35°	3255.5	3228.8	3114.5	2981.2	2753.6	2494.3	2166.7	1818.7	1448.1	1115.4	69.2
36°	3064.8	3023.8	2893.6	2752.6	2531.7	2251.3	1927.8	1600.8	1279.4	970.3	58.9
37°	2788.0	2725.4	2632.7	2484.0	2225.7	1986.8	1691.5	1388.1	1071.8	813.5	47.7
38°	2462.5	2433.3	2304.6	2154.9	1941.2	1714.6	1422.4	1165.1	884.2	679.2	36.4
39°	2078.5	2078.0	1955.0	1846.9	1637.7	1433.7	1170.2	945.7	729.9	546.9	28.2
40°	1753.1	1692.6	1616.7	1480.9	1320.4	1147.2	916.5	740.2	566.4	440.8	22.0
42.5°	919.1	913.9	869.4	767.3	677.6	575.6	457.7	381.4	298.3	243.0	13.8
45°	394.7	397.3	366.5	351.1	316.3	273.7	231.2	192.7	165.1	133.8	8.2
47.5°	100.0	95.9	94.8	98.4	98.4	95.3	85.6	80.5	74.3	68.2	4.6
50°	43.1	42.0	41.0	41.0	38.4	36.9	34.3	31.3	28.7	25.6	2.1
52.5°	15.9	16.4	16.9	16.4	16.4	15.9	15.9	15.4	13.8	12.3	1.0
55°	5.1	5.1	5.1	5.6	5.6	6.2	6.2	6.2	6.2	5.6	0.0
57.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	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°	19.5	19.5	19.5	19.5	19.5	19.5
2.5°	22.6	20.0	16.9	14.4	13.8	13.3
5°	25.1	18.5	13.8	11.3	10.3	9.7
7.5°	27.2	16.9	11.3	8.2	7.2	6.7
10°	28.2	14.9	9.2	6.2	4.6	4.6
12.5°	28.7	12.8	6.7	4.1	2.6	2.6
15°	28.2	10.8	5.1	2.1	0.5	0.5
17.5°	25.6	8.7	3.1	0.5	0.0	0.0
20°	22.0	7.2	2.1	0.0	0.0	0.0
21°	21.0	6.2	1.5	0.0	0.0	0.0
22°	19.5	5.6	1.0	0.0	0.0	0.0
23°	17.9	5.1	1.0	0.0	0.0	0.0
24°	16.4	4.6	0.5	0.0	0.0	0.0
25°	15.4	4.1	0.5	0.0	0.0	0.0
26°	14.4	3.6	0.5	0.0	0.0	0.0
27°	12.8	3.1	0.0	0.0	0.0	0.0
28°	11.8	2.6	0.0	0.0	0.0	0.0
29°	10.3	2.1	0.0	0.0	0.0	0.0
30°	8.7	1.5	0.0	0.0	0.0	0.0
31°	7.2	1.5	0.0	0.0	0.0	0.0
32°	6.2	1.0	0.0	0.0	0.0	0.0
33°	5.1	1.0	0.0	0.0	0.0	0.0
34°	4.6	1.0	0.0	0.0	0.0	0.0
35°	4.1	1.0	0.0	0.0	0.0	0.0
36°	3.1	0.5	0.0	0.0	0.0	0.0
37°	2.6	0.5	0.0	0.0	0.0	0.0
38°	2.1	0.5	0.0	0.0	0.0	0.0
39°	1.5	0.0	0.0	0.0	0.0	0.0
40°	1.5	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	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	0.5	1.5	1.5
55°	0.5	1.0	0.5	1.0	2.1	2.1
57.5°	0.5	1.0	1.0	1.5	2.1	2.6
60°	1.0	1.5	1.5	1.5	2.6	2.6
62.5°	1.0	1.5	2.1	2.1	2.6	3.1
65°	1.0	2.1	2.1	2.1	2.6	3.1
67.5°	1.5	2.1	2.1	2.1	2.6	3.1
70°	1.5	2.1	2.1	2.1	2.6	2.6
72.5°	1.5	2.1	1.5	2.1	2.1	2.6
75°	1.5	2.1	1.5	1.5	2.1	2.1
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)