

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: P1340441

Luminaire Tested: P3A09R209727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340441
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: P3A09R209727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

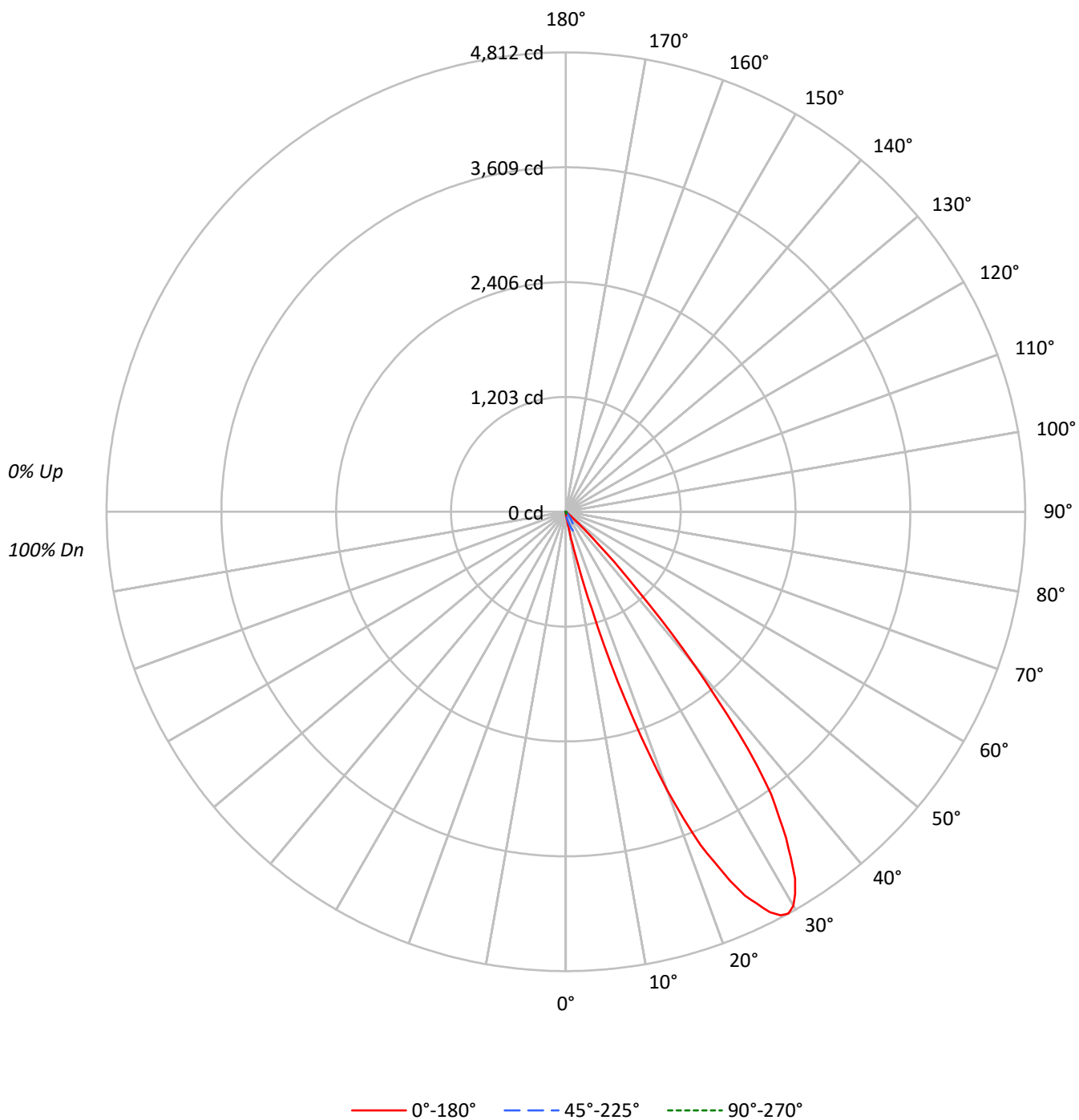
Lumens per Lamp: N/A
Luminaire Lumens: 674.9 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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°	5109	5109	5109	5109	5109
5°	11732	8761	4843	2972	2553
10°	36962	15275	3963	1625	1225
15°	239388	28218	2929	545	136
20°	722509	48304	2007	0	0
25°	1073022	48753	1186	0	0
30°	1206667	37069	456	0	0
35°	1041136	22138	321	0	0
40°	599523	7528	0	0	0
45°	146217	3039	186	0	186
50°	17535	819	205	205	614
55°	2332	0	459	459	918
60°	263	0	789	789	1360
65°	311	311	1245	1245	1920
70°	385	385	1539	1539	1988
75°	0	508	2033	1525	2033
80°	0	758	2273	1515	2273
85°	0	1510	4529	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 147178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	62.6	9.3
20°-30°	272.7	40.4
30°-40°	274.6	40.7
40°-50°	55.1	8.2
50°-60°	2.7	0.4
60°-70°	1.8	0.3
70°-80°	1.6	0.2
80°-90°	0.8	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°	338.3	50.1
0°-40°	612.9	90.8
0°-60°	670.7	99.4
0°-90°	674.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	53	40	22	14	12	8
15°	1054	124	13	2	1	413
25°	4435	202	5	0	0	2000
35°	3889	83	1	0	0	2314
45°	472	10	1	0	1	513
55°	6	0	1	1	2	11
65°	1	1	2	2	4	1
75°	0	1	2	2	2	0
85°	0	1	2	1	1	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°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	34.9	34.9	34.3	34.3	33.7	34.3	33.1	33.7	33.7	33.1	30.0
5°	53.3	54.5	53.9	53.9	53.3	53.9	52.7	51.4	50.2	50.2	39.8
7.5°	87.6	87.0	85.7	86.3	84.5	83.3	82.1	81.4	77.8	75.9	52.1
10°	166.0	169.6	166.6	166.0	154.9	154.3	147.0	136.6	127.4	122.5	68.6
12.5°	456.8	476.4	445.8	431.1	422.5	389.5	375.4	339.3	304.4	278.0	87.0
15°	1054.5	1102.9	1041.1	1045.3	993.9	899.6	816.9	745.9	662.0	577.5	124.3
17.5°	2066.2	2027.0	1993.3	1936.4	1831.6	1693.2	1515.0	1334.4	1178.2	1014.7	173.3
20°	3096.2	3061.3	2984.8	2860.5	2727.0	2521.8	2309.9	2038.6	1775.9	1529.7	207.0
21°	3450.8	3439.2	3313.6	3237.1	3031.3	2835.3	2591.0	2300.7	2004.9	1713.5	212.5
22°	3767.4	3697.6	3630.2	3516.9	3312.4	3099.3	2827.4	2521.8	2200.9	1877.0	213.1
23°	3986.6	3954.8	3891.1	3763.1	3559.8	3309.3	3022.7	2703.1	2365.0	1992.7	211.3
24°	4229.1	4188.7	4095.6	3946.2	3741.1	3493.7	3166.6	2849.4	2482.0	2090.1	206.4
25°	4434.9	4371.8	4261.6	4100.5	3876.4	3621.0	3292.2	2943.7	2563.4	2155.6	201.5
26°	4568.4	4534.1	4392.6	4217.5	3977.4	3714.1	3378.5	3016.0	2616.1	2185.6	193.5
27°	4707.4	4644.3	4505.3	4303.8	4043.6	3774.7	3427.5	3050.9	2634.5	2186.8	183.7
28°	4787.0	4718.4	4561.0	4349.2	4086.4	3808.4	3455.7	3061.9	2630.8	2167.8	172.1
29°	4812.1	4725.8	4572.1	4356.5	4096.9	3810.9	3451.4	3046.0	2598.3	2121.3	158.6
30°	4765.6	4677.4	4531.6	4321.6	4063.8	3780.3	3411.6	2993.3	2540.8	2054.6	146.4
31°	4663.9	4589.2	4448.4	4237.7	3990.3	3708.6	3321.6	2907.0	2442.8	1965.1	132.3
32°	4529.8	4456.3	4317.9	4127.5	3875.8	3591.6	3198.5	2772.3	2327.7	1831.6	118.2
33°	4328.3	4286.1	4161.8	3979.9	3728.2	3424.5	3033.1	2611.2	2163.6	1683.4	105.9
34°	4124.4	4071.1	3984.2	3785.2	3514.5	3211.3	2817.6	2388.9	1963.3	1517.5	94.3
35°	3889.3	3857.4	3720.9	3561.6	3289.7	2979.9	2588.6	2172.7	1730.0	1332.5	82.7
36°	3661.4	3612.5	3456.9	3288.5	3024.6	2689.6	2303.2	1912.5	1528.5	1159.2	70.4
37°	3330.8	3256.1	3145.2	2967.6	2659.0	2373.6	2020.9	1658.3	1280.5	971.9	57.0
38°	2941.9	2907.0	2753.3	2574.5	2319.1	2048.4	1699.4	1392.0	1056.4	811.4	43.5
39°	2483.2	2482.6	2335.6	2206.4	1956.6	1712.8	1398.1	1129.9	872.0	653.4	33.7
40°	2094.4	2022.1	1931.5	1769.2	1577.5	1370.5	1094.9	884.3	676.7	526.7	26.3
42.5°	1098.0	1091.9	1038.6	916.7	809.6	687.7	546.9	455.6	356.4	290.3	16.5
45°	471.5	474.6	437.9	419.5	377.8	327.0	276.2	230.3	197.2	159.8	9.8
47.5°	119.4	114.5	113.3	117.6	117.6	113.9	102.3	96.1	88.8	81.4	5.5
50°	51.4	50.2	49.0	49.0	45.9	44.1	41.0	37.4	34.3	30.6	2.4
52.5°	19.0	19.6	20.2	19.6	19.6	19.0	19.0	18.4	16.5	14.7	1.2
55°	6.1	6.1	6.1	6.7	6.7	7.3	7.3	7.3	7.3	6.7	0.0
57.5°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.0	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	26.9	23.9	20.2	17.1	16.5	15.9
5°	30.0	22.0	16.5	13.5	12.2	11.6
7.5°	32.5	20.2	13.5	9.8	8.6	8.0
10°	33.7	17.8	11.0	7.3	5.5	5.5
12.5°	34.3	15.3	8.0	4.9	3.1	3.1
15°	33.7	12.9	6.1	2.4	0.6	0.6
17.5°	30.6	10.4	3.7	0.6	0.0	0.0
20°	26.3	8.6	2.4	0.0	0.0	0.0
21°	25.1	7.3	1.8	0.0	0.0	0.0
22°	23.3	6.7	1.2	0.0	0.0	0.0
23°	21.4	6.1	1.2	0.0	0.0	0.0
24°	19.6	5.5	0.6	0.0	0.0	0.0
25°	18.4	4.9	0.6	0.0	0.0	0.0
26°	17.1	4.3	0.6	0.0	0.0	0.0
27°	15.3	3.7	0.0	0.0	0.0	0.0
28°	14.1	3.1	0.0	0.0	0.0	0.0
29°	12.2	2.4	0.0	0.0	0.0	0.0
30°	10.4	1.8	0.0	0.0	0.0	0.0
31°	8.6	1.8	0.0	0.0	0.0	0.0
32°	7.3	1.2	0.0	0.0	0.0	0.0
33°	6.1	1.2	0.0	0.0	0.0	0.0
34°	5.5	1.2	0.0	0.0	0.0	0.0
35°	4.9	1.2	0.0	0.0	0.0	0.0
36°	3.7	0.6	0.0	0.0	0.0	0.0
37°	3.1	0.6	0.0	0.0	0.0	0.0
38°	2.4	0.6	0.0	0.0	0.0	0.0
39°	1.8	0.0	0.0	0.0	0.0	0.0
40°	1.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.6	0.0	0.0	0.6	0.6
47.5°	0.0	0.6	0.0	0.0	0.6	1.2
50°	0.0	0.6	0.6	0.6	1.2	1.8
52.5°	0.0	1.2	0.6	0.6	1.8	1.8
55°	0.6	1.2	0.6	1.2	2.4	2.4
57.5°	0.6	1.2	1.2	1.8	2.4	3.1
60°	1.2	1.8	1.8	1.8	3.1	3.1
62.5°	1.2	1.8	2.4	2.4	3.1	3.7
65°	1.2	2.4	2.4	2.4	3.1	3.7
67.5°	1.8	2.4	2.4	2.4	3.1	3.7
70°	1.8	2.4	2.4	2.4	3.1	3.1
72.5°	1.8	2.4	1.8	2.4	2.4	3.1
75°	1.8	2.4	1.8	1.8	2.4	2.4
77.5°	1.2	1.8	1.8	1.2	1.8	1.8
80°	1.2	1.8	1.2	1.2	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.8	1.2	0.6	1.2	1.2
85°	1.2	1.8	1.2	0.6	0.6	0.6
87.5°	1.2	1.8	1.2	0.6	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)