

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: P1340369

Luminaire Tested: P3A09R209030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340369
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: P3A09R209030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

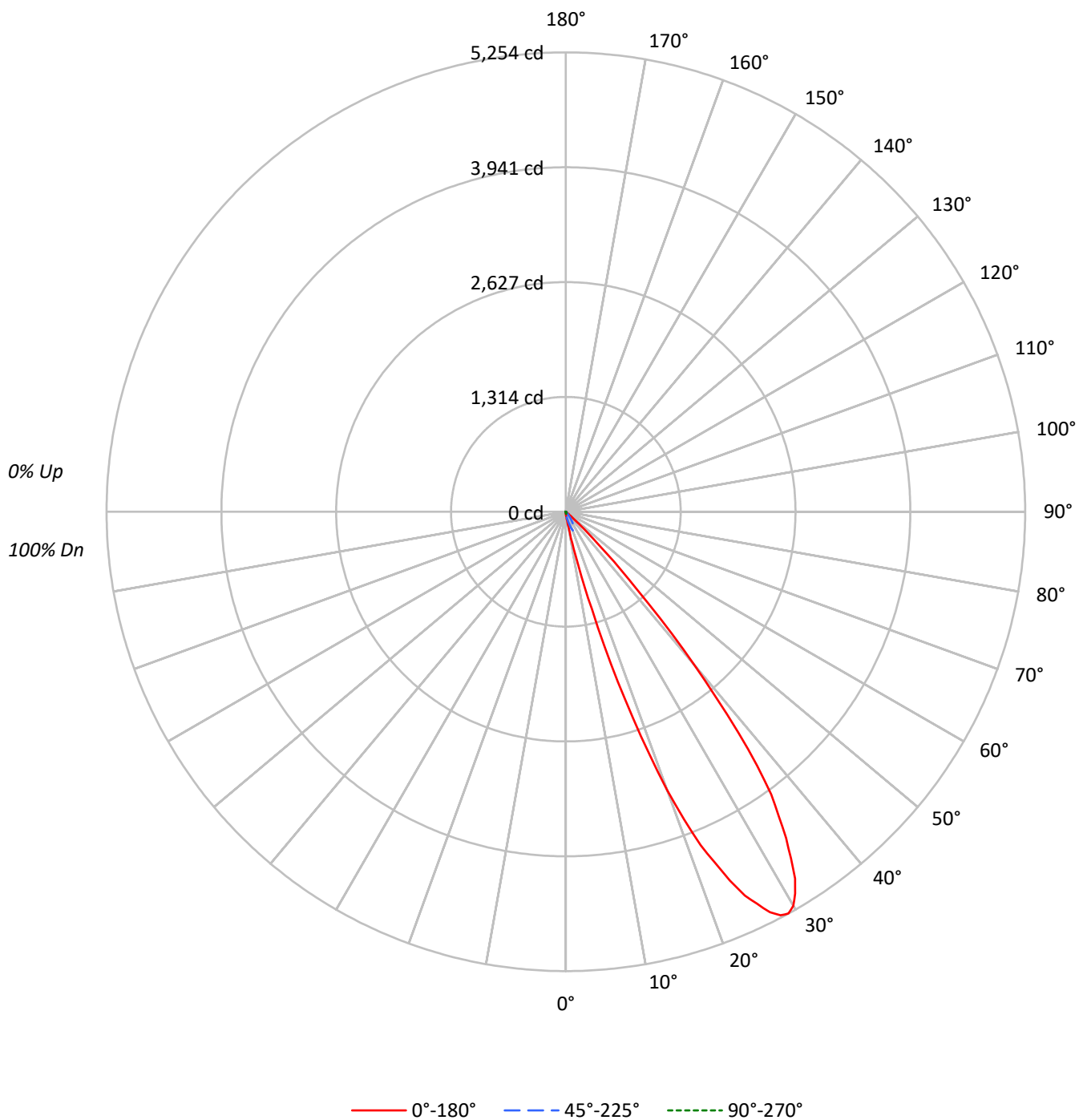
Lumens per Lamp: N/A
Luminaire Lumens: 737.0 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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°	5570	5570	5570	5570	5570
5°	12811	9575	5305	3236	2796
10°	40347	16677	4320	1781	1336
15°	261386	30806	3178	613	159
20°	788875	52738	2194	0	0
25°	1171568	53229	1282	0	0
30°	1317494	40462	506	0	0
35°	1136755	24173	348	0	0
40°	654569	8244	0	0	0
45°	159644	3318	217	0	217
50°	19172	921	239	239	682
55°	2561	0	497	497	1032
60°	307	0	877	877	1447
65°	363	363	1401	1401	2075
70°	449	449	1731	1731	2116
75°	0	593	2288	1694	2288
80°	0	884	2526	1642	2526
85°	0	1761	5032	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 160699 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	68.3	9.3
20°-30°	297.7	40.4
30°-40°	299.8	40.7
40°-50°	60.1	8.2
50°-60°	3.0	0.4
60°-70°	2.0	0.3
70°-80°	1.8	0.2
80°-90°	0.9	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°	369.4	50.1
0°-40°	669.2	90.8
0°-60°	732.4	99.4
0°-90°	737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	737.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	58	44	24	15	13	9
15°	1151	136	14	3	1	451
25°	4842	220	5	0	0	2183
35°	4246	90	1	0	0	2527
45°	515	11	1	0	1	561
55°	7	0	1	1	3	12
65°	1	1	3	3	4	1
75°	0	1	3	2	3	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°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	38.1	38.1	37.4	37.4	36.8	37.4	36.1	36.8	36.8	36.1	32.8
5°	58.2	59.5	58.8	58.8	58.2	58.8	57.5	56.2	54.8	54.8	43.5
7.5°	95.6	94.9	93.6	94.3	92.3	90.9	89.6	88.9	84.9	82.9	56.8
10°	181.2	185.2	181.9	181.2	169.2	168.5	160.5	149.1	139.1	133.7	74.9
12.5°	498.8	520.2	486.8	470.7	461.4	425.3	409.9	370.4	332.3	303.6	94.9
15°	1151.4	1204.2	1136.7	1141.4	1085.2	982.2	892.0	814.4	722.8	630.5	135.7
17.5°	2256.0	2213.2	2176.4	2114.2	1999.9	1848.8	1654.2	1457.0	1286.5	1107.9	189.2
20°	3380.6	3342.5	3258.9	3123.2	2977.4	2753.4	2522.1	2225.9	1939.0	1670.2	226.0
21°	3767.8	3755.0	3618.0	3534.4	3309.7	3095.8	2829.0	2512.1	2189.1	1870.8	232.0
22°	4113.4	4037.2	3963.7	3840.0	3616.6	3384.0	3087.1	2753.4	2403.1	2049.4	232.7
23°	4352.8	4318.0	4248.5	4108.8	3886.8	3613.3	3300.4	2951.3	2582.3	2175.7	230.7
24°	4617.6	4573.5	4471.8	4308.7	4084.7	3814.6	3457.5	3111.2	2710.0	2282.0	225.3
25°	4842.2	4773.4	4653.0	4477.2	4232.5	3953.6	3594.6	3214.1	2798.9	2353.6	220.0
26°	4988.0	4950.6	4796.1	4604.9	4342.8	4055.3	3688.9	3293.0	2856.4	2386.4	211.3
27°	5139.8	5070.9	4919.1	4699.2	4415.0	4121.5	3742.3	3331.1	2876.5	2387.7	200.6
28°	5226.7	5151.8	4980.0	4748.6	4461.8	4158.2	3773.1	3343.2	2872.5	2367.0	187.9
29°	5254.1	5159.8	4992.0	4756.7	4473.2	4160.9	3768.4	3325.8	2837.0	2316.1	173.2
30°	5203.3	5107.0	4947.9	4718.5	4437.1	4127.5	3725.0	3268.3	2774.2	2243.3	159.8
31°	5092.3	5010.7	4857.0	4626.9	4356.8	4049.2	3626.7	3174.0	2667.2	2145.6	144.4
32°	4945.9	4865.6	4714.5	4506.6	4231.8	3921.5	3492.3	3026.9	2541.5	1999.9	129.0
33°	4725.9	4679.8	4544.0	4345.5	4070.6	3739.0	3311.7	2851.1	2362.3	1838.1	115.7
34°	4503.2	4445.1	4350.1	4132.8	3837.3	3506.3	3076.4	2608.3	2143.6	1656.9	103.0
35°	4246.5	4211.7	4062.6	3888.8	3591.9	3253.6	2826.3	2372.3	1888.9	1454.9	90.3
36°	3997.8	3944.3	3774.4	3590.6	3302.4	2936.6	2514.7	2088.1	1668.9	1265.7	76.9
37°	3636.7	3555.1	3434.1	3240.2	2903.2	2591.6	2206.5	1810.7	1398.1	1061.1	62.2
38°	3212.1	3174.0	3006.2	2810.9	2532.1	2236.6	1855.5	1519.8	1153.4	885.9	47.5
39°	2711.3	2710.6	2550.2	2409.1	2136.3	1870.2	1526.5	1233.6	952.1	713.4	36.8
40°	2286.7	2207.8	2108.9	1931.7	1722.4	1496.4	1195.5	965.5	738.8	575.0	28.8
42.5°	1198.9	1192.2	1134.0	1000.9	883.9	750.9	597.1	497.5	389.1	316.9	18.1
45°	514.8	518.2	478.1	458.0	412.5	357.1	301.6	251.4	215.3	174.5	10.7
47.5°	130.4	125.0	123.7	128.4	128.4	124.4	111.7	105.0	97.0	88.9	6.0
50°	56.2	54.8	53.5	53.5	50.1	48.1	44.8	40.8	37.4	33.4	2.7
52.5°	20.7	21.4	22.1	21.4	21.4	20.7	20.7	20.1	18.1	16.0	1.3
55°	6.7	6.7	6.7	7.4	7.4	8.0	8.0	8.0	8.0	7.4	0.0
57.5°	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	29.4	26.1	22.1	18.7	18.1	17.4
5°	32.8	24.1	18.1	14.7	13.4	12.7
7.5°	35.4	22.1	14.7	10.7	9.4	8.7
10°	36.8	19.4	12.0	8.0	6.0	6.0
12.5°	37.4	16.7	8.7	5.3	3.3	3.3
15°	36.8	14.0	6.7	2.7	0.7	0.7
17.5°	33.4	11.4	4.0	0.7	0.0	0.0
20°	28.8	9.4	2.7	0.0	0.0	0.0
21°	27.4	8.0	2.0	0.0	0.0	0.0
22°	25.4	7.4	1.3	0.0	0.0	0.0
23°	23.4	6.7	1.3	0.0	0.0	0.0
24°	21.4	6.0	0.7	0.0	0.0	0.0
25°	20.1	5.3	0.7	0.0	0.0	0.0
26°	18.7	4.7	0.7	0.0	0.0	0.0
27°	16.7	4.0	0.0	0.0	0.0	0.0
28°	15.4	3.3	0.0	0.0	0.0	0.0
29°	13.4	2.7	0.0	0.0	0.0	0.0
30°	11.4	2.0	0.0	0.0	0.0	0.0
31°	9.4	2.0	0.0	0.0	0.0	0.0
32°	8.0	1.3	0.0	0.0	0.0	0.0
33°	6.7	1.3	0.0	0.0	0.0	0.0
34°	6.0	1.3	0.0	0.0	0.0	0.0
35°	5.3	1.3	0.0	0.0	0.0	0.0
36°	4.0	0.7	0.0	0.0	0.0	0.0
37°	3.3	0.7	0.0	0.0	0.0	0.0
38°	2.7	0.7	0.0	0.0	0.0	0.0
39°	2.0	0.0	0.0	0.0	0.0	0.0
40°	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.7	0.0	0.0	0.7	0.7
47.5°	0.0	0.7	0.0	0.0	0.7	1.3
50°	0.0	0.7	0.7	0.7	1.3	2.0
52.5°	0.0	1.3	0.7	0.7	2.0	2.0
55°	0.7	1.3	0.7	1.3	2.7	2.7
57.5°	0.7	1.3	1.3	2.0	2.7	3.3
60°	1.3	2.0	2.0	2.0	3.3	3.3
62.5°	1.3	2.0	2.7	2.7	3.3	4.0
65°	1.3	2.7	2.7	2.7	3.3	4.0
67.5°	2.0	2.7	2.7	2.7	3.3	4.0
70°	2.0	2.7	2.7	2.7	3.3	3.3
72.5°	2.0	2.7	2.0	2.7	2.7	3.3
75°	2.0	2.7	2.0	2.0	2.7	2.7
77.5°	1.3	2.0	2.0	1.3	2.0	2.0
80°	1.3	2.0	1.3	1.3	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.3	2.0	1.3	0.7	1.3	1.3
85°	1.3	2.0	1.3	0.7	0.7	0.7
87.5°	1.3	2.0	1.3	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)