

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: P1339973

Luminaire Tested: P3A09R159735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R159735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

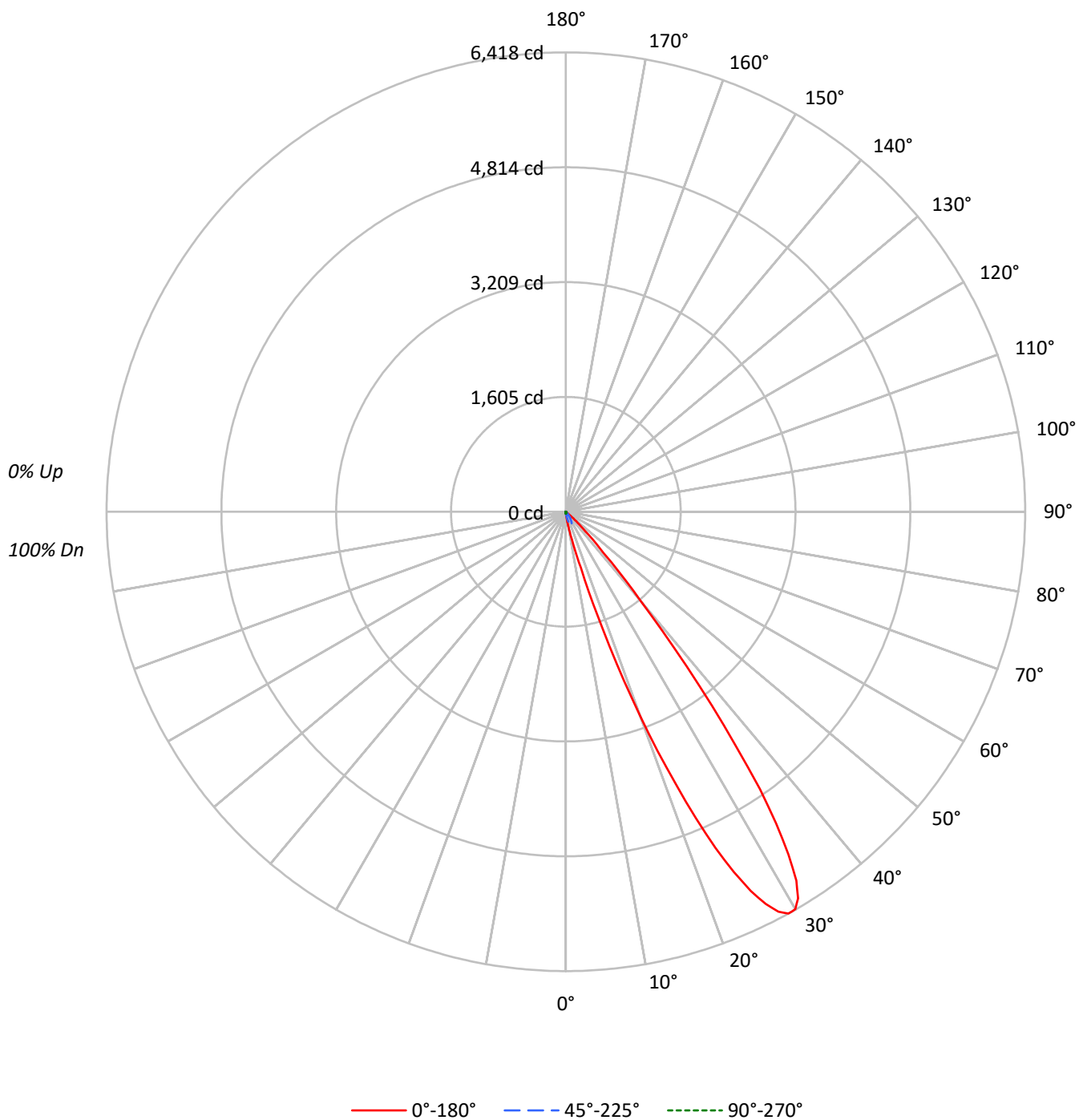
Lumens per Lamp: N/A
Luminaire Lumens: 701.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5087	5087	5087	5087	5087
5°	10962	8100	4799	2553	2091
10°	48585	15342	3785	1069	757
15°	183747	35460	2633	454	318
20°	706665	49961	1587	163	163
25°	1343787	46866	823	0	0
30°	1623338	37803	354	0	0
35°	1266077	25725	187	0	0
40°	462008	12681	200	0	200
45°	118617	3814	217	0	434
50°	19991	478	239	239	682
55°	2600	0	535	765	1300
60°	307	307	877	1184	1798
65°	363	363	1401	1764	2127
70°	449	449	1731	1731	2180
75°	593	593	2288	1694	2288
80°	0	884	2526	1768	2526
85°	0	1761	5032	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 118617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	53.7	7.7
20°-30°	297.9	42.5
30°-40°	287.8	41.1
40°-50°	50.1	7.1
50°-60°	3.6	0.5
60°-70°	2.1	0.3
70°-80°	1.7	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°	354.8	50.6
0°-40°	642.6	91.7
0°-60°	696.3	99.3
0°-90°	701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	50	37	22	12	10	10
15°	809	156	12	2	1	361
25°	5554	194	3	0	0	2483
35°	4730	96	1	0	0	2720
45°	382	12	1	0	1	411
55°	7	0	1	2	3	13
65°	1	1	3	3	4	1
75°	1	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°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	34.1	32.7	33.4	33.4	33.4	33.4	33.4	32.0	32.0	32.7	29.3
5°	49.8	49.8	49.1	49.8	49.8	49.1	47.7	47.1	47.1	45.7	36.8
7.5°	99.6	98.2	98.2	96.8	90.0	88.0	86.6	83.2	77.1	75.7	47.7
10°	218.2	218.9	214.1	208.0	207.3	197.1	193.7	187.5	175.9	164.3	68.9
12.5°	396.2	387.3	375.7	376.4	356.6	349.8	334.1	317.1	299.4	280.9	113.2
15°	809.4	784.2	799.2	762.4	720.8	673.7	626.0	566.0	514.8	460.3	156.2
17.5°	1704.7	1729.3	1687.7	1530.2	1433.3	1319.5	1159.2	1004.4	872.1	765.8	190.9
20°	3028.3	3064.4	2923.3	2786.2	2551.0	2294.6	2027.3	1724.5	1434.7	1183.8	214.1
21°	3581.3	3559.5	3501.5	3282.0	3010.6	2713.3	2386.0	2051.8	1700.7	1374.7	216.2
22°	4115.9	4126.2	3991.1	3761.3	3479.0	3149.7	2750.1	2337.5	1959.1	1530.2	212.8
23°	4648.5	4681.2	4502.6	4287.1	3931.8	3560.2	3097.9	2652.6	2184.8	1708.2	205.9
24°	5141.5	5119.0	4998.3	4726.9	4347.1	3912.0	3432.0	2891.9	2370.3	1860.2	200.5
25°	5554.0	5551.3	5361.8	5097.9	4663.5	4181.4	3652.2	3087.6	2529.2	1963.2	193.7
26°	5891.6	5836.4	5687.0	5365.2	4936.3	4427.6	3832.9	3230.1	2618.5	2015.0	186.8
27°	6152.1	6112.5	5912.0	5577.2	5129.2	4566.7	3948.9	3301.1	2659.4	2032.1	178.0
28°	6327.3	6284.4	6070.9	5725.9	5235.6	4653.9	4010.2	3331.1	2659.4	2015.7	169.8
29°	6418.0	6359.4	6146.6	5777.0	5260.2	4664.2	3995.2	3301.7	2617.8	1965.2	160.2
30°	6411.2	6338.2	6115.3	5730.7	5187.2	4580.3	3911.4	3196.1	2523.7	1890.2	149.3
31°	6300.7	6218.9	5970.0	5573.8	5036.5	4422.1	3753.2	3054.2	2394.8	1792.7	138.4
32°	6076.4	5972.7	5730.0	5335.2	4804.6	4185.5	3523.4	2835.3	2201.8	1650.2	126.8
33°	5710.9	5606.6	5346.1	4975.8	4491.0	3885.4	3218.6	2600.1	1982.3	1480.4	117.3
34°	5253.3	5157.9	4933.5	4560.5	4095.5	3505.6	2868.1	2274.8	1754.5	1312.0	107.1
35°	4729.6	4577.6	4374.4	4079.1	3625.6	3032.4	2489.6	1972.0	1519.9	1135.4	96.1
36°	4021.1	4048.4	3832.9	3471.5	3095.8	2630.8	2109.8	1644.1	1271.1	967.6	86.6
37°	3393.1	3350.2	3213.1	2933.5	2606.2	2144.6	1768.2	1393.8	1069.2	818.3	76.4
38°	2737.1	2746.7	2612.3	2397.5	2073.0	1763.4	1423.1	1144.9	894.6	696.2	66.8
39°	2142.5	2135.0	2098.9	1899.8	1605.9	1402.7	1153.1	949.2	745.3	587.1	56.6
40°	1614.0	1626.3	1541.8	1421.8	1250.6	1083.5	918.5	756.9	616.4	495.1	44.3
42.5°	784.9	804.0	748.0	717.4	641.7	576.2	486.2	396.9	337.5	291.9	19.8
45°	382.5	371.6	366.9	351.9	334.1	298.7	264.6	227.1	198.4	171.2	12.3
47.5°	195.7	190.2	190.2	184.1	178.0	166.4	149.3	137.1	123.4	106.4	4.8
50°	58.6	58.0	57.3	58.0	55.9	58.0	59.3	60.0	54.6	53.9	1.4
52.5°	23.2	23.9	23.2	25.2	25.2	24.5	25.2	24.5	23.9	21.1	0.0
55°	6.8	6.8	6.8	6.8	6.8	6.8	7.5	8.2	7.5	8.2	0.0
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7
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	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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°	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	27.3	23.9	19.8	16.4	15.0	14.3
5°	29.3	21.8	15.0	11.6	10.2	9.5
7.5°	31.4	19.8	11.6	8.2	6.1	5.5
10°	32.7	17.0	8.9	4.8	3.4	3.4
12.5°	32.7	13.6	6.1	2.7	2.0	2.0
15°	32.0	11.6	4.1	2.0	1.4	1.4
17.5°	31.4	8.9	2.7	1.4	0.7	1.4
20°	29.3	6.8	1.4	0.7	0.7	0.7
21°	28.6	6.1	1.4	0.7	0.7	0.7
22°	27.3	5.5	0.7	0.0	0.7	0.7
23°	25.9	4.1	0.7	0.0	0.0	0.0
24°	23.9	3.4	0.7	0.0	0.0	0.0
25°	22.5	3.4	0.7	0.0	0.0	0.0
26°	21.1	2.0	0.0	0.0	0.0	0.0
27°	19.1	1.4	0.0	0.0	0.0	0.0
28°	17.7	1.4	0.0	0.0	0.0	0.0
29°	15.7	1.4	0.0	0.0	0.0	0.0
30°	13.6	1.4	0.0	0.0	0.0	0.0
31°	10.9	0.7	0.0	0.0	0.0	0.0
32°	8.9	0.7	0.0	0.0	0.0	0.0
33°	6.1	0.7	0.0	0.0	0.0	0.0
34°	4.1	0.7	0.0	0.0	0.0	0.0
35°	3.4	0.7	0.0	0.0	0.0	0.0
36°	2.0	0.7	0.0	0.0	0.0	0.7
37°	2.0	0.7	0.0	0.0	0.0	0.7
38°	1.4	0.7	0.0	0.0	0.0	0.7
39°	0.7	0.7	0.0	0.0	0.0	0.7
40°	0.7	0.7	0.0	0.0	0.0	0.7
42.5°	0.0	0.7	0.0	0.0	0.7	1.4
45°	0.0	0.7	0.0	0.0	0.7	1.4
47.5°	0.0	0.7	0.0	0.0	1.4	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.0
52.5°	0.0	1.4	0.7	1.4	2.0	2.7
55°	0.7	1.4	1.4	2.0	2.7	3.4
57.5°	0.7	2.0	2.0	2.7	3.4	3.4
60°	1.4	2.0	2.7	2.7	4.1	4.1
62.5°	1.4	2.7	2.7	2.7	4.1	4.1
65°	1.4	2.7	2.7	3.4	4.1	4.1
67.5°	1.4	2.7	2.7	2.7	3.4	4.1
70°	1.4	2.7	2.0	2.7	3.4	3.4
72.5°	1.4	2.7	2.0	2.0	2.7	3.4
75°	1.4	2.7	2.0	2.0	2.7	2.7
77.5°	1.4	2.0	2.0	1.4	2.0	2.0
80°	1.4	2.0	1.4	1.4	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.4	2.0	1.4	0.7	1.4	1.4
85°	1.4	2.0	1.4	0.7	0.7	0.7
87.5°	1.4	2.0	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)