

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: P1340053

Luminaire Tested: P3A09R159840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340053
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: P3A09R159840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

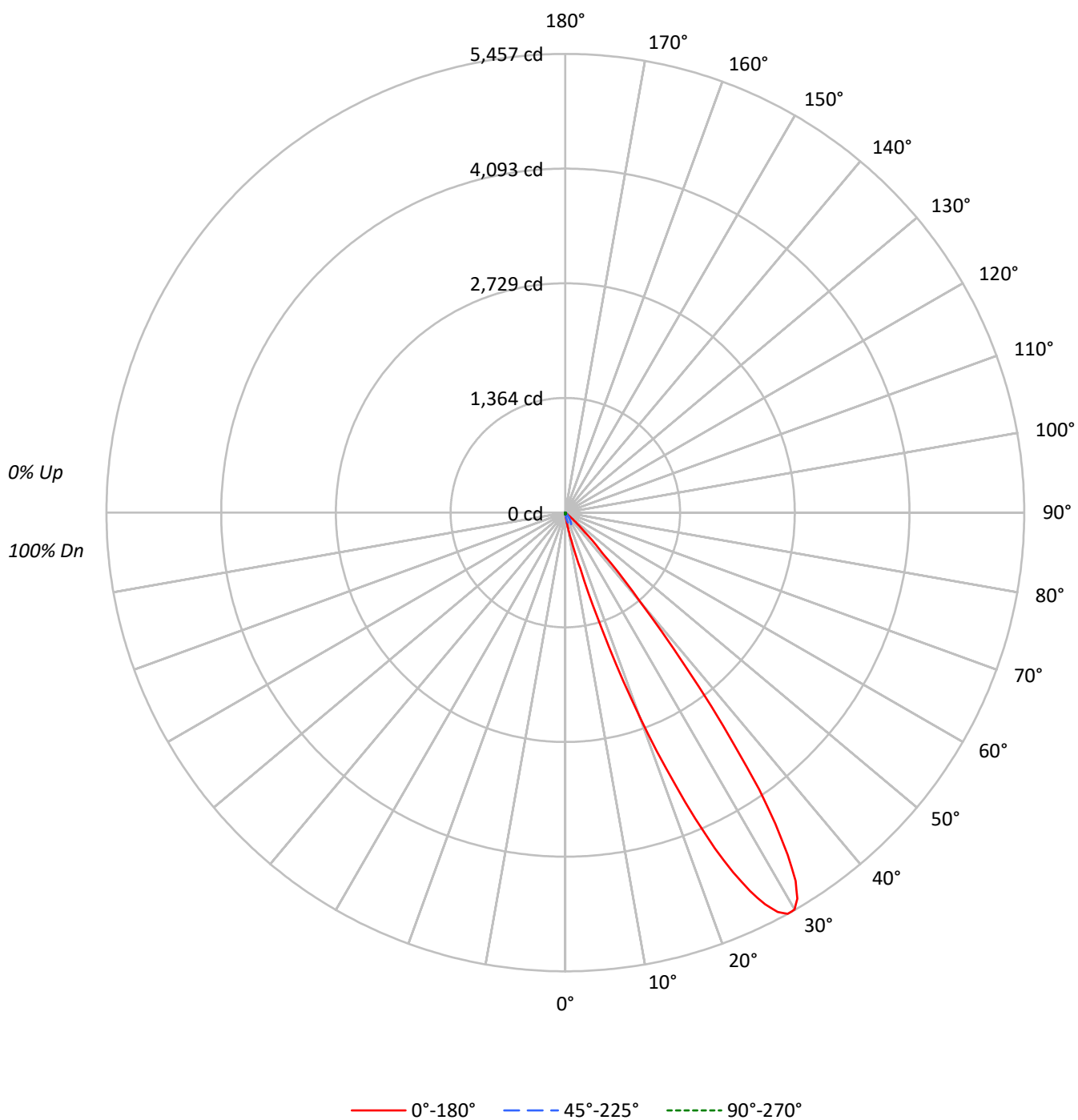
Lumens per Lamp: N/A
Luminaire Lumens: 596.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	47	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°	4320	4320	4320	4320	4320
5°	9311	6890	4094	2179	1783
10°	41304	13048	3229	913	646
15°	156232	30148	2247	386	272
20°	600816	42470	1353	140	140
25°	1142510	39849	702	0	0
30°	1380187	32157	304	0	0
35°	1076444	21870	161	0	0
40°	392822	10792	172	0	172
45°	100848	3225	186	0	372
50°	17023	409	205	205	580
55°	2217	0	459	650	1109
60°	263	263	746	1009	1535
65°	311	311	1193	1505	1816
70°	385	385	1475	1475	1859
75°	508	508	1949	1440	1949
80°	0	758	2147	1515	2147
85°	0	1510	4277	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 100848 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	45.7	7.7
20°-30°	253.3	42.5
30°-40°	244.7	41.1
40°-50°	42.6	7.1
50°-60°	3.1	0.5
60°-70°	1.8	0.3
70°-80°	1.5	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°	301.7	50.6
0°-40°	546.4	91.7
0°-60°	592.0	99.3
0°-90°	596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	42	31	19	10	8	8
15°	688	133	10	2	1	307
25°	4722	165	3	0	0	2111
35°	4021	82	1	0	0	2313
45°	325	10	1	0	1	349
55°	6	0	1	2	3	11
65°	1	1	2	3	4	1
75°	1	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°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	29.0	27.8	28.4	28.4	28.4	28.4	28.4	27.2	27.2	27.8	24.9
5°	42.3	42.3	41.7	42.3	42.3	41.7	40.6	40.0	40.0	38.8	31.3
7.5°	84.6	83.5	83.5	82.3	76.5	74.8	73.6	70.7	65.5	64.4	40.6
10°	185.5	186.1	182.0	176.8	176.2	167.6	164.7	159.4	149.6	139.7	58.6
12.5°	336.8	329.3	319.4	320.0	303.2	297.4	284.1	269.6	254.5	238.9	96.2
15°	688.2	666.7	679.5	648.2	612.8	572.8	532.2	481.2	437.7	391.3	132.8
17.5°	1449.4	1470.3	1434.9	1301.0	1218.7	1121.8	985.6	854.0	741.5	651.1	162.3
20°	2574.7	2605.4	2485.4	2368.9	2168.9	1950.9	1723.6	1466.2	1219.8	1006.5	182.0
21°	3044.9	3026.3	2977.1	2790.4	2559.6	2306.9	2028.6	1744.5	1445.9	1168.8	183.8
22°	3499.4	3508.1	3393.3	3197.9	2957.9	2677.9	2338.2	1987.4	1665.6	1301.0	180.9
23°	3952.2	3980.0	3828.1	3644.9	3342.9	3026.9	2633.8	2255.3	1857.5	1452.3	175.1
24°	4371.4	4352.2	4249.6	4018.9	3696.0	3326.1	2917.9	2458.8	2015.2	1581.6	170.4
25°	4722.1	4719.8	4558.6	4334.3	3965.0	3555.1	3105.2	2625.1	2150.3	1669.1	164.7
26°	5009.1	4962.2	4835.2	4561.5	4196.9	3764.4	3258.8	2746.3	2226.3	1713.2	158.9
27°	5230.6	5197.0	5026.5	4741.8	4360.9	3882.6	3357.4	2806.6	2261.1	1727.7	151.3
28°	5379.6	5343.1	5161.6	4868.2	4451.4	3956.8	3409.6	2832.1	2261.1	1713.8	144.4
29°	5456.7	5406.8	5225.9	4911.7	4472.3	3965.5	3396.8	2807.2	2225.7	1670.9	136.2
30°	5450.9	5388.9	5199.3	4872.3	4410.2	3894.2	3325.5	2717.3	2145.7	1607.1	127.0
31°	5357.0	5287.4	5075.8	4738.9	4282.1	3759.7	3191.0	2596.7	2036.1	1524.2	117.7
32°	5166.2	5078.1	4871.7	4536.0	4085.0	3558.6	2995.6	2410.6	1872.0	1403.0	107.8
33°	4855.5	4766.8	4545.3	4230.5	3818.3	3303.5	2736.5	2210.6	1685.4	1258.7	99.7
34°	4466.5	4385.3	4194.6	3877.4	3482.0	2980.5	2438.5	1934.1	1491.7	1115.5	91.0
35°	4021.2	3891.9	3719.1	3468.1	3082.6	2578.2	2116.7	1676.7	1292.3	965.3	81.7
36°	3418.8	3442.0	3258.8	2951.5	2632.1	2236.7	1793.8	1397.8	1080.7	822.7	73.6
37°	2884.9	2848.4	2731.8	2494.1	2215.8	1823.3	1503.3	1185.0	909.1	695.7	64.9
38°	2327.1	2335.3	2221.1	2038.4	1762.5	1499.3	1210.0	973.4	760.6	591.9	56.8
39°	1821.6	1815.2	1784.5	1615.2	1365.3	1192.6	980.4	807.0	633.7	499.2	48.1
40°	1372.3	1382.7	1310.8	1208.8	1063.3	921.2	780.9	643.5	524.1	420.9	37.7
42.5°	667.3	683.5	636.0	609.9	545.6	489.9	413.4	337.4	287.0	248.1	16.8
45°	325.2	316.0	311.9	299.2	284.1	253.9	224.9	193.1	168.7	145.5	10.4
47.5°	166.4	161.8	161.8	156.5	151.3	141.5	127.0	116.5	104.9	90.4	4.1
50°	49.9	49.3	48.7	49.3	47.5	49.3	50.4	51.0	46.4	45.8	1.2
52.5°	19.7	20.3	19.7	21.5	21.5	20.9	21.5	20.9	20.3	18.0	0.0
55°	5.8	5.8	5.8	5.8	5.8	5.8	6.4	7.0	6.4	7.0	0.0
57.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6
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	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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°	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	23.2	20.3	16.8	13.9	12.8	12.2
5°	24.9	18.6	12.8	9.9	8.7	8.1
7.5°	26.7	16.8	9.9	7.0	5.2	4.6
10°	27.8	14.5	7.5	4.1	2.9	2.9
12.5°	27.8	11.6	5.2	2.3	1.7	1.7
15°	27.2	9.9	3.5	1.7	1.2	1.2
17.5°	26.7	7.5	2.3	1.2	0.6	1.2
20°	24.9	5.8	1.2	0.6	0.6	0.6
21°	24.3	5.2	1.2	0.6	0.6	0.6
22°	23.2	4.6	0.6	0.0	0.6	0.6
23°	22.0	3.5	0.6	0.0	0.0	0.0
24°	20.3	2.9	0.6	0.0	0.0	0.0
25°	19.1	2.9	0.6	0.0	0.0	0.0
26°	18.0	1.7	0.0	0.0	0.0	0.0
27°	16.2	1.2	0.0	0.0	0.0	0.0
28°	15.1	1.2	0.0	0.0	0.0	0.0
29°	13.3	1.2	0.0	0.0	0.0	0.0
30°	11.6	1.2	0.0	0.0	0.0	0.0
31°	9.3	0.6	0.0	0.0	0.0	0.0
32°	7.5	0.6	0.0	0.0	0.0	0.0
33°	5.2	0.6	0.0	0.0	0.0	0.0
34°	3.5	0.6	0.0	0.0	0.0	0.0
35°	2.9	0.6	0.0	0.0	0.0	0.0
36°	1.7	0.6	0.0	0.0	0.0	0.6
37°	1.7	0.6	0.0	0.0	0.0	0.6
38°	1.2	0.6	0.0	0.0	0.0	0.6
39°	0.6	0.6	0.0	0.0	0.0	0.6
40°	0.6	0.6	0.0	0.0	0.0	0.6
42.5°	0.0	0.6	0.0	0.0	0.6	1.2
45°	0.0	0.6	0.0	0.0	0.6	1.2
47.5°	0.0	0.6	0.0	0.0	1.2	1.2
50°	0.0	0.6	0.6	0.6	1.2	1.7
52.5°	0.0	1.2	0.6	1.2	1.7	2.3
55°	0.6	1.2	1.2	1.7	2.3	2.9
57.5°	0.6	1.7	1.7	2.3	2.9	2.9
60°	1.2	1.7	2.3	2.3	3.5	3.5
62.5°	1.2	2.3	2.3	2.3	3.5	3.5
65°	1.2	2.3	2.3	2.9	3.5	3.5
67.5°	1.2	2.3	2.3	2.3	2.9	3.5
70°	1.2	2.3	1.7	2.3	2.9	2.9
72.5°	1.2	2.3	1.7	1.7	2.3	2.9
75°	1.2	2.3	1.7	1.7	2.3	2.3
77.5°	1.2	1.7	1.7	1.2	1.7	1.7
80°	1.2	1.7	1.2	1.2	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.7	1.2	0.6	1.2	1.2
85°	1.2	1.7	1.2	0.6	0.6	0.6
87.5°	1.2	1.7	0.6	0.0	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)