

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: P1339957

Luminaire Tested: P3A09R159730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339957
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: P3A09R159730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

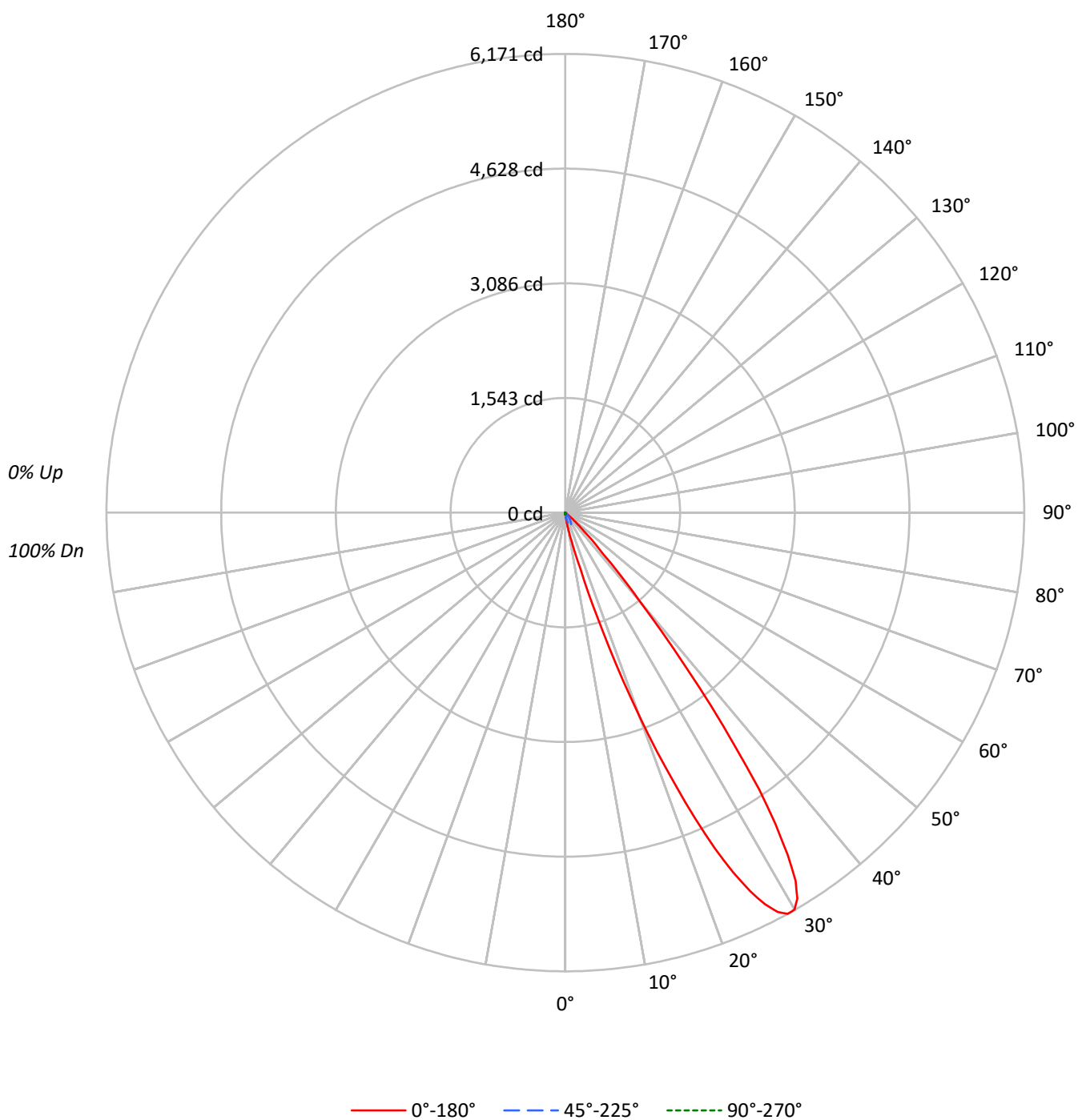
Lumens per Lamp: N/A
Luminaire Lumens: 674.1 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1339957

CATALOG NUMBER: P3A09R159730DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1339957

CATALOG NUMBER: P3A09R159730DE010 E3CA301MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	47	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4890	4890	4890	4890	4890
5°	10544	7792	4622	2443	2025
10°	46715	14740	3652	1024	735
15°	176664	34075	2520	454	295
20°	679456	48048	1540	163	163
25°	1292034	45051	798	0	0
30°	1560822	36360	329	0	0
35°	1217331	24735	187	0	0
40°	444232	12194	200	0	200
45°	114058	3659	217	0	403
50°	19240	443	239	239	682
55°	2523	0	497	765	1262
60°	307	307	877	1140	1710
65°	363	363	1349	1712	2024
70°	449	449	1667	1667	2116
75°	593	593	2203	1694	2203
80°	0	884	2526	1642	2526
85°	0	1761	5032	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 114058 cd/sqm

TEST NUMBER: P1339957

CATALOG NUMBER: P3A09R159730DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	51.6	7.7
20°-30°	286.5	42.5
30°-40°	276.7	41.1
40°-50°	48.1	7.1
50°-60°	3.5	0.5
60°-70°	2.0	0.3
70°-80°	1.7	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°	341.2	50.6
0°-40°	617.9	91.7
0°-60°	669.5	99.3
0°-90°	674.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	48	35	21	11	9	9
15°	778	150	11	2	1	347
25°	5340	186	3	0	0	2388
35°	4548	92	1	0	0	2615
45°	368	12	1	0	1	395
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	

TEST NUMBER: P1339957

CATALOG NUMBER: P3A09R159730DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	32.8	31.5	32.1	32.1	32.1	32.1	32.1	30.8	30.8	31.5	28.2
5°	47.9	47.9	47.2	47.9	47.9	47.2	45.9	45.2	45.2	43.9	35.4
7.5°	95.7	94.4	94.4	93.1	86.5	84.6	83.3	80.0	74.1	72.8	45.9
10°	209.8	210.5	205.9	200.0	199.3	189.5	186.2	180.3	169.2	158.0	66.2
12.5°	380.9	372.4	361.3	361.9	342.9	336.3	321.3	304.9	287.8	270.1	108.8
15°	778.2	754.0	768.4	733.0	693.0	647.8	601.9	544.2	495.0	442.6	150.1
17.5°	1639.1	1662.7	1622.7	1471.2	1378.1	1268.6	1114.6	965.7	838.6	736.3	183.6
20°	2911.7	2946.4	2810.7	2678.9	2452.7	2206.2	1949.2	1658.1	1379.5	1138.2	205.9
21°	3443.4	3422.4	3366.7	3155.6	2894.6	2608.8	2294.1	1972.8	1635.1	1321.8	207.8
22°	3957.4	3967.2	3837.4	3616.5	3345.0	3028.4	2644.2	2247.5	1883.6	1471.2	204.6
23°	4469.4	4500.9	4329.1	4122.0	3780.4	3423.1	2978.5	2550.4	2100.6	1642.4	198.0
24°	4943.5	4921.8	4805.8	4544.8	4179.7	3761.4	3299.8	2780.5	2279.0	1788.6	192.8
25°	5340.1	5337.5	5155.2	4901.5	4483.9	4020.3	3511.6	2968.7	2431.7	1887.6	186.2
26°	5664.7	5611.6	5468.0	5158.5	4746.1	4257.0	3685.3	3105.7	2517.6	1937.4	179.6
27°	5915.1	5877.1	5684.3	5362.4	4931.7	4390.8	3796.8	3173.9	2557.0	1953.8	171.1
28°	6083.6	6042.3	5837.1	5505.3	5033.9	4474.7	3855.8	3202.8	2557.0	1938.0	163.3
29°	6170.8	6114.4	5909.9	5554.5	5057.5	4484.5	3841.4	3174.6	2517.0	1889.5	154.1
30°	6164.3	6094.1	5879.7	5509.9	4987.4	4403.9	3760.7	3072.9	2426.5	1817.4	143.6
31°	6058.0	5979.4	5740.1	5359.1	4842.5	4251.8	3608.6	2936.6	2302.6	1723.7	133.1
32°	5842.3	5742.7	5509.3	5129.7	4619.6	4024.3	3387.7	2726.1	2117.0	1586.6	121.9
33°	5490.9	5390.6	5140.2	4784.2	4318.0	3735.8	3094.6	2499.9	1905.9	1423.4	112.8
34°	5051.0	4959.2	4743.5	4384.9	3937.7	3370.6	2757.6	2187.2	1686.9	1261.4	102.9
35°	4547.5	4401.3	4205.9	3922.0	3486.0	2915.6	2393.7	1896.1	1461.4	1091.6	92.4
36°	3866.3	3892.5	3685.3	3337.8	2976.6	2529.4	2028.5	1580.7	1222.1	930.3	83.3
37°	3262.4	3221.1	3089.3	2820.5	2505.8	2062.0	1700.1	1340.1	1028.0	786.8	73.4
38°	2631.7	2640.9	2511.7	2305.2	1993.1	1695.5	1368.3	1100.8	860.2	669.4	64.3
39°	2060.0	2052.8	2018.0	1826.6	1544.0	1348.6	1108.7	912.6	716.6	564.5	54.4
40°	1551.9	1563.7	1482.4	1367.0	1202.4	1041.8	883.1	727.8	592.7	476.0	42.6
42.5°	754.6	773.0	719.2	689.7	617.0	554.0	467.5	381.6	324.5	280.6	19.0
45°	367.8	357.3	352.7	338.3	321.3	287.2	254.4	218.3	190.8	164.6	11.8
47.5°	188.2	182.9	182.9	177.0	171.1	160.0	143.6	131.8	118.7	102.3	4.6
50°	56.4	55.7	55.1	55.7	53.8	55.7	57.0	57.7	52.5	51.8	1.3
52.5°	22.3	22.9	22.3	24.3	24.3	23.6	24.3	23.6	22.9	20.3	0.0
55°	6.6	6.6	6.6	6.6	6.6	6.6	7.2	7.9	7.2	7.9	0.0
57.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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



TEST NUMBER: P1339957

CATALOG NUMBER: P3A09R159730DE010 E3CA301MW

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

TEST NUMBER: P1339957

CATALOG NUMBER: P3A09R159730DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	26.2	22.9	19.0	15.7	14.4	13.8
5°	28.2	21.0	14.4	11.1	9.8	9.2
7.5°	30.2	19.0	11.1	7.9	5.9	5.2
10°	31.5	16.4	8.5	4.6	3.3	3.3
12.5°	31.5	13.1	5.9	2.6	2.0	2.0
15°	30.8	11.1	3.9	2.0	1.3	1.3
17.5°	30.2	8.5	2.6	1.3	0.7	1.3
20°	28.2	6.6	1.3	0.7	0.7	0.7
21°	27.5	5.9	1.3	0.7	0.7	0.7
22°	26.2	5.2	0.7	0.0	0.7	0.7
23°	24.9	3.9	0.7	0.0	0.0	0.0
24°	22.9	3.3	0.7	0.0	0.0	0.0
25°	21.6	3.3	0.7	0.0	0.0	0.0
26°	20.3	2.0	0.0	0.0	0.0	0.0
27°	18.4	1.3	0.0	0.0	0.0	0.0
28°	17.0	1.3	0.0	0.0	0.0	0.0
29°	15.1	1.3	0.0	0.0	0.0	0.0
30°	13.1	1.3	0.0	0.0	0.0	0.0
31°	10.5	0.7	0.0	0.0	0.0	0.0
32°	8.5	0.7	0.0	0.0	0.0	0.0
33°	5.9	0.7	0.0	0.0	0.0	0.0
34°	3.9	0.7	0.0	0.0	0.0	0.0
35°	3.3	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°	1.3	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	1.3
45°	0.0	0.7	0.0	0.0	0.7	1.3
47.5°	0.0	0.7	0.0	0.0	1.3	1.3
50°	0.0	0.7	0.7	0.7	1.3	2.0
52.5°	0.0	1.3	0.7	1.3	2.0	2.6
55°	0.7	1.3	1.3	2.0	2.6	3.3
57.5°	0.7	2.0	2.0	2.6	3.3	3.3
60°	1.3	2.0	2.6	2.6	3.9	3.9
62.5°	1.3	2.6	2.6	2.6	3.9	3.9
65°	1.3	2.6	2.6	3.3	3.9	3.9
67.5°	1.3	2.6	2.6	2.6	3.3	3.9
70°	1.3	2.6	2.0	2.6	3.3	3.3
72.5°	1.3	2.6	2.0	2.0	2.6	3.3
75°	1.3	2.6	2.0	2.0	2.6	2.6
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



TEST NUMBER: P1339957

CATALOG NUMBER: P3A09R159730DE010 E3CA301MW

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	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)