

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: P1343399

Luminaire Tested: P3A13R159027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343399
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: P3A13R159027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

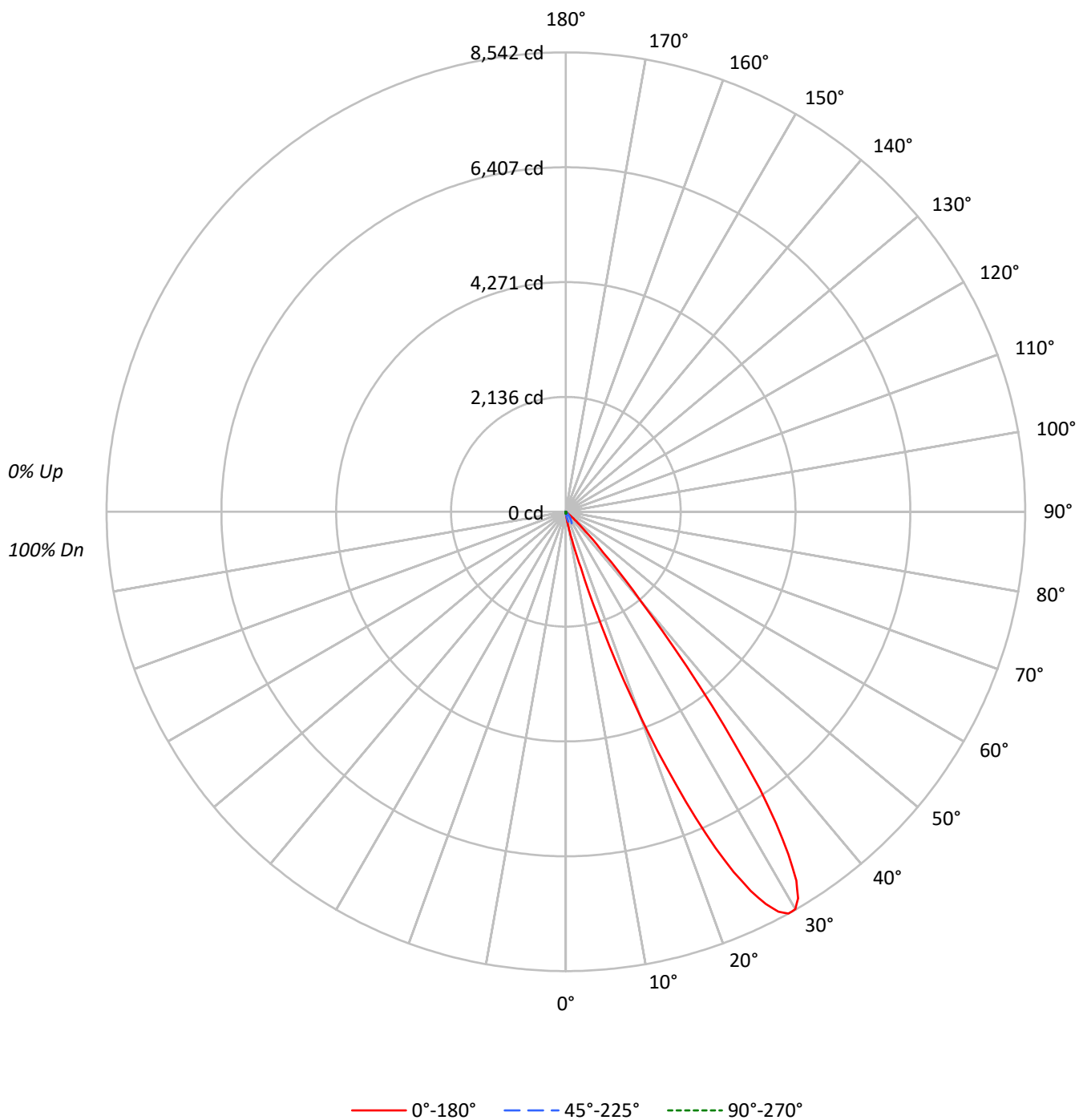
Lumens per Lamp: N/A
Luminaire Lumens: 932.9 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6776	6776	6776	6776	6776
5°	14594	10786	6383	3390	2796
10°	64661	20418	5054	1425	1002
15°	244564	47174	3496	613	409
20°	940532	66506	2124	210	210
25°	1788539	62375	1089	0	0
30°	2160586	50337	456	0	0
35°	1685096	34265	241	0	0
40°	614924	16889	258	0	258
45°	157877	5055	279	0	558
50°	26643	614	307	307	921
55°	3479	0	688	1032	1720
60°	395	395	1184	1579	2368
65°	467	467	1868	2335	2802
70°	577	577	2308	2308	2885
75°	763	763	3050	2288	3050
80°	0	1137	3410	2273	3410
85°	0	2264	6793	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 157877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.5
10°-20°	71.5	7.7
20°-30°	396.5	42.5
30°-40°	383.1	41.1
40°-50°	66.6	7.1
50°-60°	4.8	0.5
60°-70°	2.8	0.3
70°-80°	2.3	0.2
80°-90°	1.1	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°	472.2	50.6
0°-40°	855.3	91.7
0°-60°	926.7	99.3
0°-90°	932.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	66	49	29	15	13	13
15°	1077	208	15	3	2	480
25°	7392	258	4	0	0	3305
35°	6295	128	1	0	0	3620
45°	509	16	1	0	2	547
55°	9	0	2	3	4	18
65°	1	1	4	4	5	1
75°	1	1	4	3	4	1
85°	0	1	3	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°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	45.4	43.6	44.5	44.5	44.5	44.5	44.5	42.7	42.7	43.6	39.0
5°	66.3	66.3	65.3	66.3	66.3	65.3	63.5	62.6	62.6	60.8	49.0
7.5°	132.5	130.7	130.7	128.9	119.8	117.1	115.3	110.7	102.6	100.7	63.5
10°	290.4	291.3	285.0	276.8	275.9	262.3	257.8	249.6	234.2	218.7	91.7
12.5°	527.3	515.5	500.1	501.0	474.7	465.6	444.7	422.0	398.4	373.9	150.7
15°	1077.3	1043.7	1063.7	1014.7	959.3	896.7	833.2	753.3	685.2	612.6	207.8
17.5°	2268.9	2301.6	2246.2	2036.6	1907.7	1756.2	1542.9	1336.9	1160.8	1019.2	254.1
20°	4030.5	4078.6	3890.8	3708.3	3395.2	3054.0	2698.2	2295.3	1909.5	1575.5	285.0
21°	4766.6	4737.5	4660.4	4368.2	4006.9	3611.2	3175.6	2730.9	2263.5	1829.7	287.7
22°	5478.1	5491.7	5312.0	5006.2	4630.4	4192.1	3660.2	3111.2	2607.5	2036.6	283.2
23°	6186.9	6230.5	5992.7	5705.9	5233.1	4738.4	4123.1	3530.5	2907.9	2273.5	274.1
24°	6843.1	6813.2	6652.5	6291.3	5785.8	5206.8	4567.8	3849.0	3154.7	2475.9	266.8
25°	7392.2	7388.6	7136.3	6785.0	6206.9	5565.2	4861.0	4109.5	3366.2	2612.9	257.8
26°	7841.4	7767.9	7569.2	7140.8	6569.9	5892.9	5101.5	4299.2	3485.1	2681.9	248.7
27°	8188.1	8135.5	7868.7	7423.1	6826.8	6078.0	5255.8	4393.6	3539.5	2704.6	236.9
28°	8421.4	8364.2	8080.1	7620.9	6968.4	6194.2	5337.4	4433.5	3539.5	2682.8	226.0
29°	8542.1	8464.0	8180.9	7689.0	7001.0	6207.8	5317.5	4394.5	3484.2	2615.6	213.3
30°	8533.0	8435.9	8139.1	7627.3	6903.9	6096.2	5205.8	4253.8	3358.9	2515.8	198.8
31°	8386.0	8277.1	7945.8	7418.5	6703.3	5885.6	4995.3	4065.0	3187.4	2386.0	184.2
32°	8087.4	7949.4	7626.3	7100.9	6394.8	5570.7	4689.4	3773.7	2930.6	2196.3	168.8
33°	7600.9	7462.1	7115.4	6622.6	5977.3	5171.4	4283.8	3460.6	2638.3	1970.3	156.1
34°	6992.0	6864.9	6566.3	6069.9	5450.9	4665.8	3817.3	3027.7	2335.2	1746.2	142.5
35°	6294.9	6092.5	5822.1	5429.1	4825.6	4036.0	3313.6	2624.7	2023.0	1511.1	128.0
36°	5352.0	5388.3	5101.5	4620.5	4120.4	3501.4	2808.0	2188.2	1691.7	1287.8	115.3
37°	4516.1	4458.9	4276.5	3904.4	3468.7	2854.3	2353.3	1855.1	1423.1	1089.1	101.6
38°	3643.0	3655.7	3476.9	3191.0	2759.0	2347.0	1894.1	1523.8	1190.7	926.6	88.9
39°	2851.6	2841.6	2793.5	2528.5	2137.3	1866.9	1534.7	1263.3	992.0	781.4	75.3
40°	2148.2	2164.6	2052.0	1892.3	1664.5	1442.1	1222.5	1007.4	820.4	658.9	59.0
42.5°	1044.6	1070.0	995.6	954.8	854.0	766.9	647.1	528.2	449.2	388.4	26.3
45°	509.1	494.6	488.3	468.3	444.7	397.5	352.1	302.2	264.1	227.8	16.3
47.5°	260.5	253.2	253.2	245.0	236.9	221.4	198.8	182.4	164.3	141.6	6.4
50°	78.1	77.1	76.2	77.1	74.4	77.1	79.0	79.9	72.6	71.7	1.8
52.5°	30.9	31.8	30.9	33.6	33.6	32.7	33.6	32.7	31.8	28.1	0.0
55°	9.1	9.1	9.1	9.1	9.1	9.1	10.0	10.9	10.0	10.9	0.0
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9



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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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	36.3	31.8	26.3	21.8	20.0	19.1
5°	39.0	29.0	20.0	15.4	13.6	12.7
7.5°	41.7	26.3	15.4	10.9	8.2	7.3
10°	43.6	22.7	11.8	6.4	4.5	4.5
12.5°	43.6	18.2	8.2	3.6	2.7	2.7
15°	42.7	15.4	5.4	2.7	1.8	1.8
17.5°	41.7	11.8	3.6	1.8	0.9	1.8
20°	39.0	9.1	1.8	0.9	0.9	0.9
21°	38.1	8.2	1.8	0.9	0.9	0.9
22°	36.3	7.3	0.9	0.0	0.9	0.9
23°	34.5	5.4	0.9	0.0	0.0	0.0
24°	31.8	4.5	0.9	0.0	0.0	0.0
25°	29.9	4.5	0.9	0.0	0.0	0.0
26°	28.1	2.7	0.0	0.0	0.0	0.0
27°	25.4	1.8	0.0	0.0	0.0	0.0
28°	23.6	1.8	0.0	0.0	0.0	0.0
29°	20.9	1.8	0.0	0.0	0.0	0.0
30°	18.2	1.8	0.0	0.0	0.0	0.0
31°	14.5	0.9	0.0	0.0	0.0	0.0
32°	11.8	0.9	0.0	0.0	0.0	0.0
33°	8.2	0.9	0.0	0.0	0.0	0.0
34°	5.4	0.9	0.0	0.0	0.0	0.0
35°	4.5	0.9	0.0	0.0	0.0	0.0
36°	2.7	0.9	0.0	0.0	0.0	0.9
37°	2.7	0.9	0.0	0.0	0.0	0.9
38°	1.8	0.9	0.0	0.0	0.0	0.9
39°	0.9	0.9	0.0	0.0	0.0	0.9
40°	0.9	0.9	0.0	0.0	0.0	0.9
42.5°	0.0	0.9	0.0	0.0	0.9	1.8
45°	0.0	0.9	0.0	0.0	0.9	1.8
47.5°	0.0	0.9	0.0	0.0	1.8	1.8
50°	0.0	0.9	0.9	0.9	1.8	2.7
52.5°	0.0	1.8	0.9	1.8	2.7	3.6
55°	0.9	1.8	1.8	2.7	3.6	4.5
57.5°	0.9	2.7	2.7	3.6	4.5	4.5
60°	1.8	2.7	3.6	3.6	5.4	5.4
62.5°	1.8	3.6	3.6	3.6	5.4	5.4
65°	1.8	3.6	3.6	4.5	5.4	5.4
67.5°	1.8	3.6	3.6	3.6	4.5	5.4
70°	1.8	3.6	2.7	3.6	4.5	4.5
72.5°	1.8	3.6	2.7	2.7	3.6	4.5
75°	1.8	3.6	2.7	2.7	3.6	3.6
77.5°	1.8	2.7	2.7	1.8	2.7	2.7
80°	1.8	2.7	1.8	1.8	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.8	2.7	1.8	0.9	1.8	1.8
85°	1.8	2.7	1.8	0.9	0.9	0.9
87.5°	1.8	2.7	0.9	0.0	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)