

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: P1343599

Luminaire Tested: P3A13R159840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343599
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: P3A13R159840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

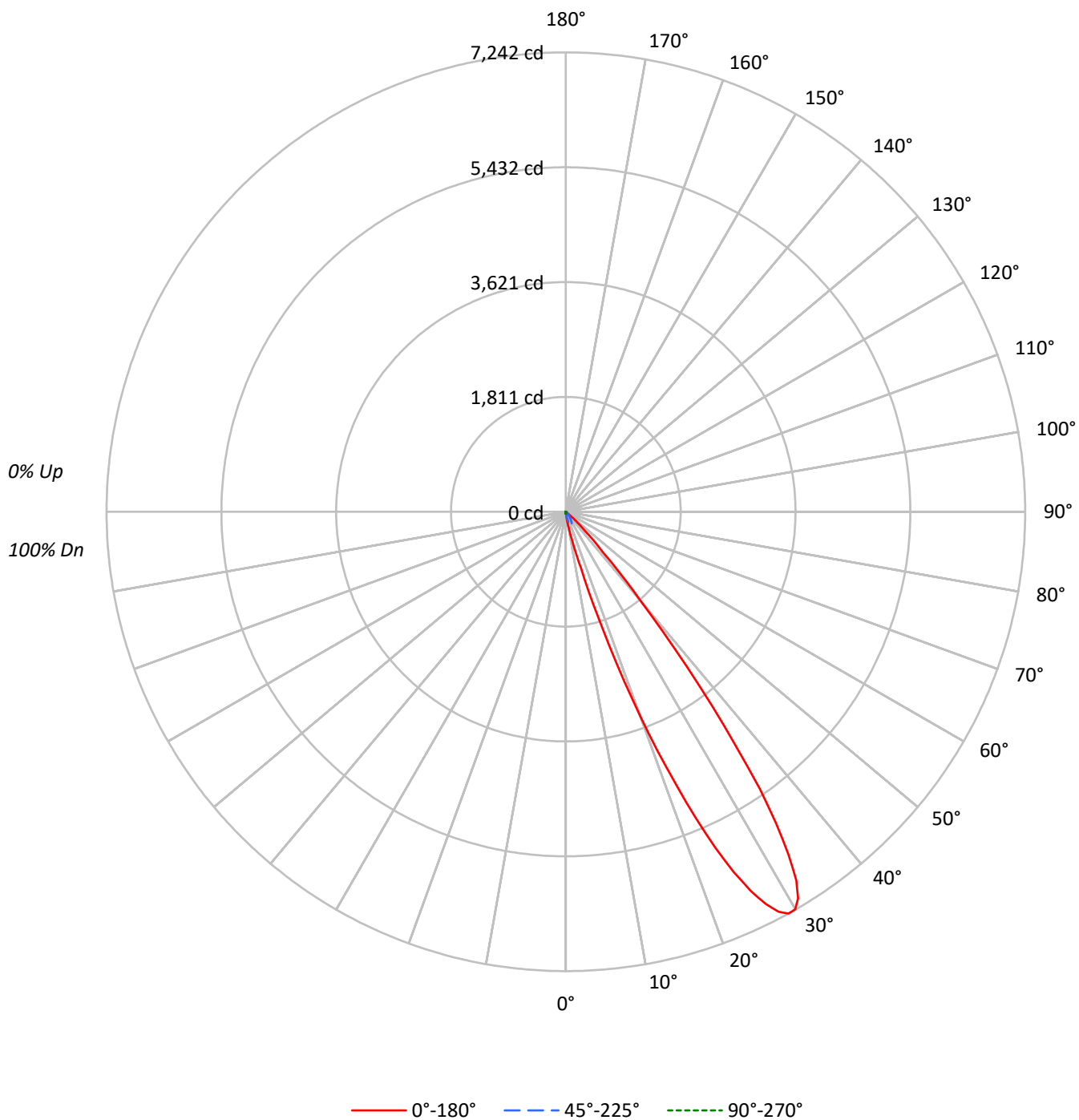
Lumens per Lamp: N/A
Luminaire Lumens: 791.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5745	5745	5745	5745	5745
5°	12371	9135	5415	2884	2377
10°	54820	17301	4275	1202	846
15°	207334	40000	2974	522	341
20°	797393	56378	1797	187	187
25°	1516321	52866	919	0	0
30°	1831750	42665	380	0	0
35°	1428647	29045	214	0	0
40°	521348	14313	229	0	229
45°	133874	4280	248	0	465
50°	22583	512	273	273	785
55°	2944	0	573	879	1453
60°	351	351	1009	1360	2017
65°	415	415	1608	1972	2387
70°	513	513	1988	1988	2436
75°	678	678	2626	1949	2626
80°	0	1010	2904	1894	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 133874 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.5
10°-20°	60.6	7.7
20°-30°	336.2	42.5
30°-40°	324.8	41.1
40°-50°	56.5	7.1
50°-60°	4.0	0.5
60°-70°	2.4	0.3
70°-80°	1.9	0.2
80°-90°	1.0	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°	400.4	50.6
0°-40°	725.2	91.7
0°-60°	785.7	99.3
0°-90°	791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	56	42	25	13	11	11
15°	913	176	13	2	2	407
25°	6267	218	4	0	0	2802
35°	5337	108	1	0	0	3069
45°	432	14	1	0	2	464
55°	8	0	2	2	4	15
65°	1	1	3	4	5	1
75°	1	1	3	2	3	1
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°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
2.5°	38.5	36.9	37.7	37.7	37.7	37.7	37.7	36.2	36.2	36.9	33.1
5°	56.2	56.2	55.4	56.2	56.2	55.4	53.9	53.1	53.1	51.6	41.5
7.5°	112.3	110.8	110.8	109.3	101.6	99.3	97.7	93.9	86.9	85.4	53.9
10°	246.2	247.0	241.6	234.7	233.9	222.4	218.5	211.6	198.5	185.4	77.7
12.5°	447.0	437.0	424.0	424.7	402.4	394.7	377.0	357.8	337.8	317.0	127.7
15°	913.3	884.9	901.8	860.2	813.3	760.2	706.3	638.6	580.9	519.4	176.2
17.5°	1923.6	1951.3	1904.4	1726.6	1617.4	1488.9	1308.1	1133.4	984.1	864.1	215.4
20°	3417.1	3457.9	3298.6	3143.9	2878.5	2589.2	2287.6	1945.9	1618.9	1335.8	241.6
21°	4041.1	4016.5	3951.1	3703.3	3397.1	3061.6	2692.3	2315.3	1919.0	1551.2	243.9
22°	4644.4	4655.9	4503.6	4244.3	3925.7	3554.1	3103.2	2637.7	2210.6	1726.6	240.1
23°	5245.3	5282.2	5080.6	4837.5	4436.6	4017.3	3495.6	2993.1	2465.3	1927.5	232.4
24°	5801.6	5776.2	5640.0	5333.8	4905.2	4414.3	3872.6	3263.2	2674.6	2099.0	226.2
25°	6267.1	6264.0	6050.1	5752.4	5262.2	4718.2	4121.1	3484.0	2853.9	2215.2	218.5
26°	6648.0	6585.7	6417.2	6054.0	5570.0	4996.0	4325.0	3644.9	2954.7	2273.7	210.8
27°	6941.9	6897.3	6671.1	6293.3	5787.8	5153.0	4455.9	3724.9	3000.8	2292.9	200.8
28°	7139.7	7091.2	6850.4	6461.0	5907.8	5251.5	4525.1	3758.7	3000.8	2274.5	191.6
29°	7242.0	7175.8	6935.8	6518.7	5935.5	5263.0	4508.2	3725.6	2953.9	2217.5	180.8
30°	7234.3	7152.0	6900.4	6466.4	5853.2	5168.4	4413.5	3606.4	2847.7	2132.9	168.5
31°	7109.7	7017.3	6736.5	6289.4	5683.1	4989.8	4235.0	3446.3	2702.3	2022.9	156.2
32°	6856.5	6739.6	6465.6	6020.1	5421.5	4722.8	3975.7	3199.3	2484.5	1862.1	143.1
33°	6444.1	6326.4	6032.4	5614.6	5067.6	4384.3	3631.8	2933.9	2236.8	1670.5	132.3
34°	5927.8	5820.1	5566.9	5146.0	4621.3	3955.7	3236.3	2566.9	1979.8	1480.4	120.8
35°	5336.9	5165.3	4936.0	4602.8	4091.1	3421.7	2809.2	2225.2	1715.1	1281.1	108.5
36°	4537.4	4568.2	4325.0	3917.2	3493.3	2968.5	2380.7	1855.1	1434.2	1091.8	97.7
37°	3828.8	3780.3	3625.6	3310.1	2940.8	2419.9	1995.2	1572.7	1206.5	923.3	86.2
38°	3088.5	3099.3	2947.7	2705.4	2339.1	1989.8	1605.8	1291.9	1009.5	785.6	75.4
39°	2417.6	2409.1	2368.3	2143.7	1812.0	1582.7	1301.1	1071.1	841.0	662.5	63.9
40°	1821.3	1835.1	1739.7	1604.3	1411.2	1222.6	1036.4	854.1	695.6	558.6	50.0
42.5°	885.6	907.2	844.1	809.5	724.0	650.2	548.6	447.8	380.9	329.3	22.3
45°	431.7	419.3	414.0	397.0	377.0	337.0	298.5	256.2	223.9	193.1	13.8
47.5°	220.8	214.7	214.7	207.7	200.8	187.7	168.5	154.7	139.3	120.0	5.4
50°	66.2	65.4	64.6	65.4	63.1	65.4	66.9	67.7	61.6	60.8	1.5
52.5°	26.2	26.9	26.2	28.5	28.5	27.7	28.5	27.7	26.9	23.9	0.0
55°	7.7	7.7	7.7	7.7	7.7	7.7	8.5	9.2	8.5	9.2	0.0
57.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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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	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	26.2	26.2	26.2	26.2	26.2	26.2
2.5°	30.8	26.9	22.3	18.5	16.9	16.2
5°	33.1	24.6	16.9	13.1	11.5	10.8
7.5°	35.4	22.3	13.1	9.2	6.9	6.2
10°	36.9	19.2	10.0	5.4	3.8	3.8
12.5°	36.9	15.4	6.9	3.1	2.3	2.3
15°	36.2	13.1	4.6	2.3	1.5	1.5
17.5°	35.4	10.0	3.1	1.5	0.8	1.5
20°	33.1	7.7	1.5	0.8	0.8	0.8
21°	32.3	6.9	1.5	0.8	0.8	0.8
22°	30.8	6.2	0.8	0.0	0.8	0.8
23°	29.2	4.6	0.8	0.0	0.0	0.0
24°	26.9	3.8	0.8	0.0	0.0	0.0
25°	25.4	3.8	0.8	0.0	0.0	0.0
26°	23.9	2.3	0.0	0.0	0.0	0.0
27°	21.5	1.5	0.0	0.0	0.0	0.0
28°	20.0	1.5	0.0	0.0	0.0	0.0
29°	17.7	1.5	0.0	0.0	0.0	0.0
30°	15.4	1.5	0.0	0.0	0.0	0.0
31°	12.3	0.8	0.0	0.0	0.0	0.0
32°	10.0	0.8	0.0	0.0	0.0	0.0
33°	6.9	0.8	0.0	0.0	0.0	0.0
34°	4.6	0.8	0.0	0.0	0.0	0.0
35°	3.8	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.8	0.0	0.0	0.0	0.8
37°	2.3	0.8	0.0	0.0	0.0	0.8
38°	1.5	0.8	0.0	0.0	0.0	0.8
39°	0.8	0.8	0.0	0.0	0.0	0.8
40°	0.8	0.8	0.0	0.0	0.0	0.8
42.5°	0.0	0.8	0.0	0.0	0.8	1.5
45°	0.0	0.8	0.0	0.0	0.8	1.5
47.5°	0.0	0.8	0.0	0.0	1.5	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	1.5	2.3	3.1
55°	0.8	1.5	1.5	2.3	3.1	3.8
57.5°	0.8	2.3	2.3	3.1	3.8	3.8
60°	1.5	2.3	3.1	3.1	4.6	4.6
62.5°	1.5	3.1	3.1	3.1	4.6	4.6
65°	1.5	3.1	3.1	3.8	4.6	4.6
67.5°	1.5	3.1	3.1	3.1	3.8	4.6
70°	1.5	3.1	2.3	3.1	3.8	3.8
72.5°	1.5	3.1	2.3	2.3	3.1	3.8
75°	1.5	3.1	2.3	2.3	3.1	3.1
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	0.8	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)