

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: P1343760

Luminaire Tested: P3A13R15W2N902750DE010 E3CA301MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343760
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: P3A13R15W2N902750DE010 E3CA301MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

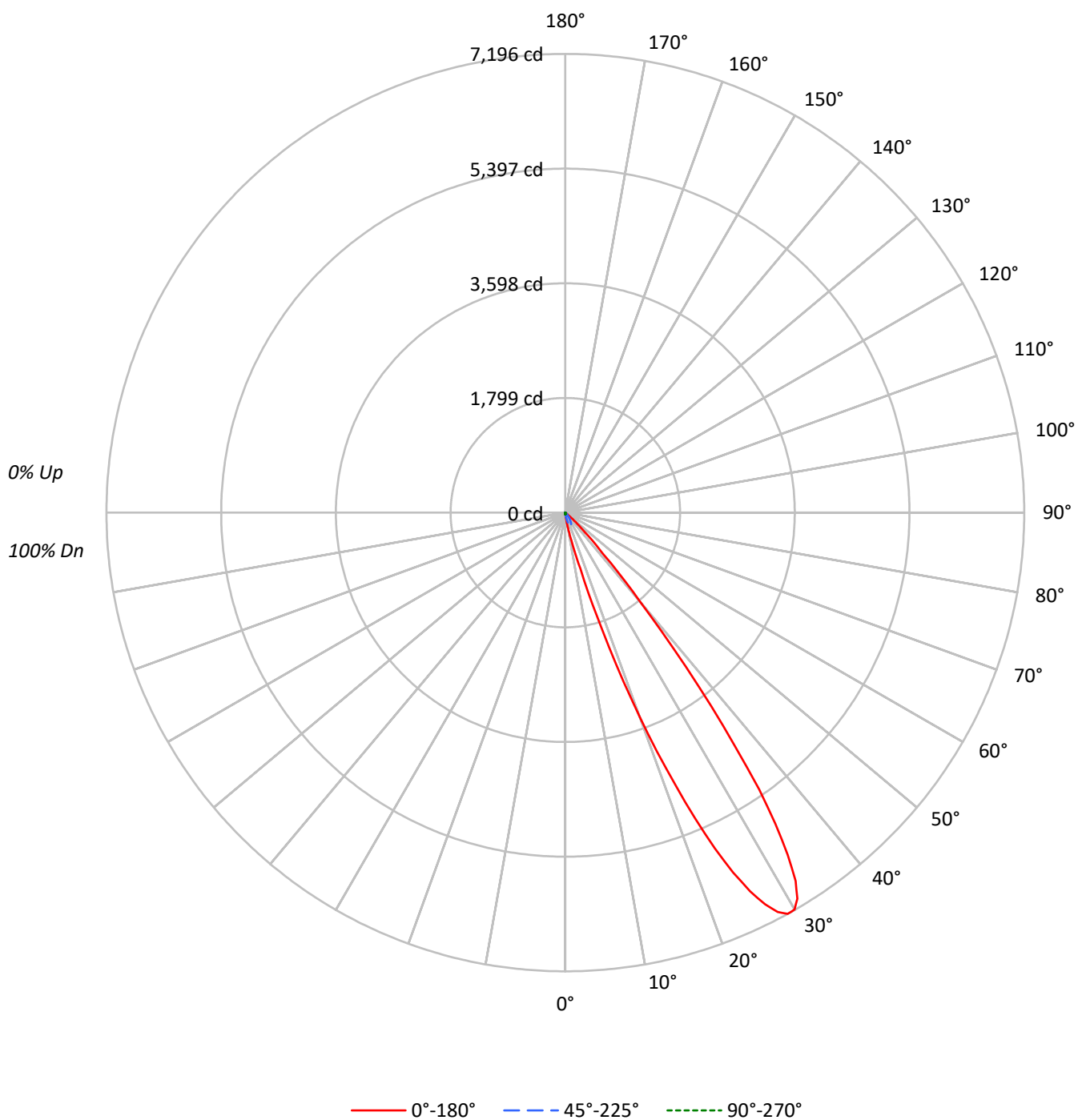
Lumens per Lamp: N/A
Luminaire Lumens: 786.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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			0
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°	5701	5701	5701	5701	5701
5°	12283	9091	5393	2862	2355
10°	54486	17190	4253	1202	846
15°	206040	39751	2951	522	341
20°	792352	56028	1773	187	187
25°	1506740	52527	919	0	0
30°	1820179	42386	380	0	0
35°	1419599	28857	214	0	0
40°	518056	14227	229	0	229
45°	133006	4280	248	0	465
50°	22447	512	273	273	785
55°	2906	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: 133006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.5
10°-20°	60.2	7.7
20°-30°	334.1	42.5
30°-40°	322.7	41.1
40°-50°	56.1	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°	397.8	50.6
0°-40°	720.6	91.7
0°-60°	780.7	99.3
0°-90°	786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	56	41	24	13	11	11
15°	908	175	13	2	2	404
25°	6228	217	4	0	0	2784
35°	5303	108	1	0	0	3050
45°	429	14	1	0	2	461
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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	38.2	36.7	37.5	37.5	37.5	37.5	37.5	35.9	35.9	36.7	32.9
5°	55.8	55.8	55.0	55.8	55.8	55.0	53.5	52.8	52.8	51.2	41.3
7.5°	111.6	110.1	110.1	108.6	100.9	98.6	97.1	93.3	86.4	84.9	53.5
10°	244.7	245.4	240.1	233.2	232.4	221.0	217.1	210.3	197.3	184.3	77.2
12.5°	444.2	434.3	421.3	422.0	399.9	392.2	374.6	355.5	335.7	315.0	126.9
15°	907.6	879.3	896.1	854.8	808.2	755.4	701.9	634.6	577.3	516.1	175.1
17.5°	1911.5	1939.0	1892.3	1715.7	1607.1	1479.5	1299.8	1126.2	977.9	858.6	214.1
20°	3395.5	3436.0	3277.8	3124.1	2860.3	2572.8	2273.1	1933.6	1608.7	1327.3	240.1
21°	4015.6	3991.1	3926.1	3679.9	3375.6	3042.3	2675.3	2300.6	1906.9	1541.4	242.4
22°	4615.0	4626.5	4475.1	4217.4	3900.9	3531.6	3083.6	2621.0	2196.6	1715.7	238.5
23°	5212.1	5248.8	5048.5	4806.9	4408.6	3991.9	3473.5	2974.2	2449.7	1915.3	230.9
24°	5764.9	5739.7	5604.4	5300.1	4874.2	4386.4	3848.1	3242.6	2657.7	2085.8	224.8
25°	6227.5	6224.4	6011.9	5716.0	5229.0	4688.4	4095.1	3462.0	2835.8	2201.2	217.1
26°	6606.0	6544.0	6376.6	6015.7	5534.8	4964.4	4297.7	3621.8	2936.0	2259.3	209.5
27°	6898.0	6853.7	6628.9	6253.5	5751.2	5120.4	4427.7	3701.3	2981.9	2278.4	199.6
28°	7094.5	7046.4	6807.1	6420.2	5870.4	5218.3	4496.5	3735.0	2981.9	2260.1	190.4
29°	7196.2	7130.5	6891.9	6477.5	5898.0	5229.7	4479.7	3702.1	2935.2	2203.5	179.7
30°	7188.6	7106.8	6856.8	6425.5	5816.2	5135.7	4385.6	3583.6	2829.7	2119.4	167.4
31°	7064.7	6973.0	6693.9	6249.7	5647.2	4958.3	4208.3	3424.6	2685.2	2010.1	155.2
32°	6813.2	6697.0	6424.8	5982.1	5387.2	4693.0	3950.6	3179.1	2468.8	1850.3	142.2
33°	6403.4	6286.4	5994.3	5579.1	5035.5	4356.6	3608.8	2915.3	2222.6	1659.9	131.5
34°	5890.3	5783.3	5531.7	5113.5	4592.1	3930.7	3215.8	2550.6	1967.3	1471.1	120.0
35°	5303.1	5132.6	4904.8	4573.7	4065.3	3400.1	2791.5	2211.2	1704.2	1273.0	107.8
36°	4508.7	4539.3	4297.7	3892.5	3471.2	2949.8	2365.6	1843.4	1425.2	1084.9	97.1
37°	3804.6	3756.4	3602.7	3289.2	2922.2	2404.6	1982.6	1562.8	1198.9	917.5	85.6
38°	3069.0	3079.7	2929.1	2688.3	2324.3	1977.2	1595.7	1283.7	1003.1	780.6	74.9
39°	2402.3	2393.9	2353.4	2130.1	1800.6	1572.7	1292.9	1064.3	835.7	658.3	63.5
40°	1809.8	1823.5	1728.7	1594.2	1402.2	1214.9	1029.9	848.7	691.2	555.1	49.7
42.5°	880.0	901.4	838.7	804.3	719.5	646.1	545.1	445.0	378.5	327.2	22.2
45°	428.9	416.7	411.3	394.5	374.6	334.9	296.7	254.6	222.5	191.9	13.8
47.5°	219.4	213.3	213.3	206.4	199.6	186.6	167.4	153.7	138.4	119.3	5.4
50°	65.8	65.0	64.2	65.0	62.7	65.0	66.5	67.3	61.2	60.4	1.5
52.5°	26.0	26.8	26.0	28.3	28.3	27.5	28.3	27.5	26.8	23.7	0.0
55°	7.6	7.6	7.6	7.6	7.6	7.6	8.4	9.2	8.4	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

TEST NUMBER: P1343760

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	30.6	26.8	22.2	18.3	16.8	16.1
5°	32.9	24.5	16.8	13.0	11.5	10.7
7.5°	35.2	22.2	13.0	9.2	6.9	6.1
10°	36.7	19.1	9.9	5.4	3.8	3.8
12.5°	36.7	15.3	6.9	3.1	2.3	2.3
15°	35.9	13.0	4.6	2.3	1.5	1.5
17.5°	35.2	9.9	3.1	1.5	0.8	1.5
20°	32.9	7.6	1.5	0.8	0.8	0.8
21°	32.1	6.9	1.5	0.8	0.8	0.8
22°	30.6	6.1	0.8	0.0	0.8	0.8
23°	29.1	4.6	0.8	0.0	0.0	0.0
24°	26.8	3.8	0.8	0.0	0.0	0.0
25°	25.2	3.8	0.8	0.0	0.0	0.0
26°	23.7	2.3	0.0	0.0	0.0	0.0
27°	21.4	1.5	0.0	0.0	0.0	0.0
28°	19.9	1.5	0.0	0.0	0.0	0.0
29°	17.6	1.5	0.0	0.0	0.0	0.0
30°	15.3	1.5	0.0	0.0	0.0	0.0
31°	12.2	0.8	0.0	0.0	0.0	0.0
32°	9.9	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)