

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: P1343759

Luminaire Tested: P3A13R15W2N902750DE010 E3CA301MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343759
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_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

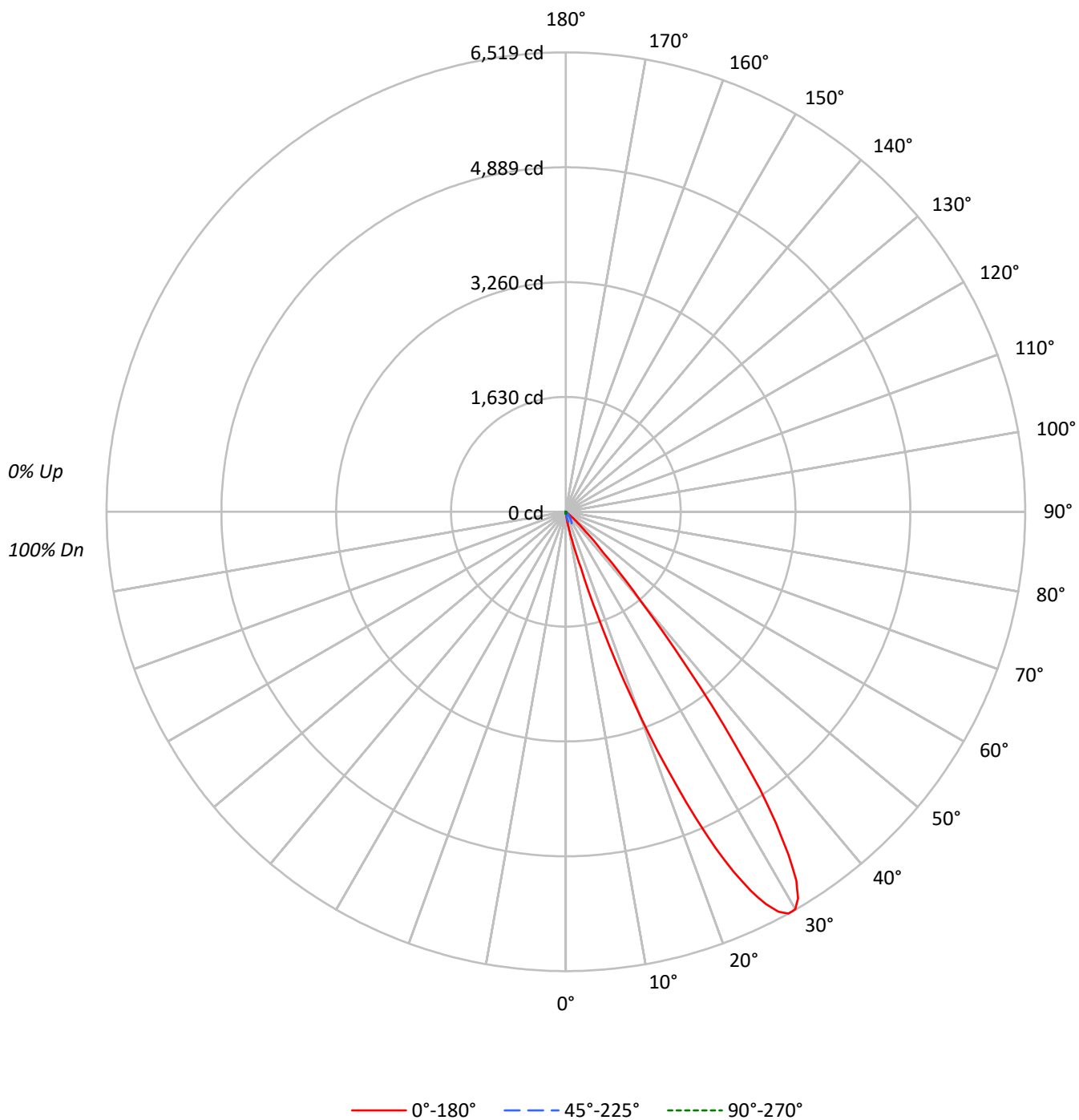
Lumens per Lamp: N/A
Luminaire Lumens: 712.1 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	0
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°	5153	5153	5153	5153	5153
5°	11138	8232	4887	2597	2135
10°	49342	15586	3852	1069	779
15°	186630	36005	2679	477	318
20°	717749	50754	1610	163	163
25°	1364885	47591	847	0	0
30°	1648811	38411	354	0	0
35°	1285967	26154	187	0	0
40°	469279	12881	200	0	200
45°	120478	3876	217	0	434
50°	20332	478	239	239	716
55°	2638	0	535	803	1338
60°	307	307	921	1228	1842
65°	363	363	1453	1816	2179
70°	449	449	1795	1795	2244
75°	593	593	2372	1779	2372
80°	0	884	2652	1768	2652
85°	0	1761	5284	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 120478 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	54.6	7.7
20°-30°	302.6	42.5
30°-40°	292.3	41.1
40°-50°	50.8	7.1
50°-60°	3.7	0.5
60°-70°	2.2	0.3
70°-80°	1.8	0.2
80°-90°	0.9	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°	360.4	50.6
0°-40°	652.7	91.7
0°-60°	707.2	99.3
0°-90°	712.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	51	37	22	12	10	10
15°	822	159	12	2	1	366
25°	5641	197	4	0	0	2522
35°	4804	98	1	0	0	2763
45°	388	12	1	0	1	417
55°	7	0	1	2	4	13
65°	1	1	3	4	4	1
75°	1	1	3	2	3	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°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
2.5°	34.6	33.2	33.9	33.9	33.9	33.9	33.9	32.6	32.6	33.2	29.8
5°	50.6	50.6	49.9	50.6	50.6	49.9	48.5	47.8	47.8	46.4	37.4
7.5°	101.1	99.7	99.7	98.3	91.4	89.3	88.0	84.5	78.3	76.9	48.5
10°	221.6	222.3	217.5	211.2	210.5	200.2	196.7	190.5	178.7	166.9	70.0
12.5°	402.4	393.4	381.6	382.3	362.2	355.3	339.4	322.1	304.1	285.3	115.0
15°	822.1	796.5	811.7	774.3	732.1	684.3	635.8	574.9	522.9	467.5	158.6
17.5°	1731.5	1756.4	1714.2	1554.2	1455.8	1340.2	1177.4	1020.2	885.8	777.8	193.9
20°	3075.8	3112.5	2969.2	2830.0	2591.0	2330.6	2059.1	1751.6	1457.2	1202.3	217.5
21°	3637.5	3615.4	3556.5	3333.5	3057.8	2755.8	2423.4	2084.0	1727.3	1396.3	219.6
22°	4180.5	4190.9	4053.8	3820.4	3533.6	3199.1	2793.2	2374.2	1989.8	1554.2	216.1
23°	4721.4	4754.7	4573.2	4354.4	3993.5	3616.0	3146.5	2694.2	2219.1	1735.0	209.2
24°	5222.2	5199.3	5076.7	4801.1	4415.3	3973.4	3485.8	2937.3	2407.5	1889.4	203.6
25°	5641.2	5638.4	5445.9	5177.9	4736.7	4247.0	3709.5	3136.1	2568.8	1994.0	196.7
26°	5984.0	5927.9	5776.3	5449.4	5013.7	4497.0	3893.1	3280.8	2659.6	2046.6	189.8
27°	6248.6	6208.4	6004.8	5664.8	5209.7	4638.3	4010.8	3352.9	2701.1	2063.9	180.8
28°	6426.6	6383.0	6166.2	5815.7	5317.8	4727.0	4073.2	3383.3	2701.1	2047.3	172.5
29°	6518.7	6459.2	6243.1	5867.7	5342.7	4737.4	4057.9	3353.6	2658.9	1996.1	162.8
30°	6511.8	6437.7	6211.2	5820.6	5268.6	4652.2	3972.7	3246.2	2563.3	1919.9	151.7
31°	6399.6	6316.5	6063.7	5661.3	5115.5	4491.5	3812.1	3102.1	2432.4	1820.8	140.6
32°	6171.7	6066.5	5819.9	5418.9	4880.0	4251.2	3578.6	2879.8	2236.4	1676.1	128.8
33°	5800.5	5694.5	5430.0	5053.9	4561.4	3946.4	3269.1	2640.9	2013.4	1503.6	119.1
34°	5335.8	5238.8	5010.9	4632.1	4159.7	3560.6	2913.1	2310.5	1782.1	1332.6	108.7
35°	4803.9	4649.4	4443.0	4143.1	3682.5	3080.0	2528.7	2003.0	1543.8	1153.2	97.7
36°	4084.2	4111.9	3893.1	3526.0	3144.4	2672.0	2142.9	1669.9	1291.0	982.8	88.0
37°	3446.4	3402.7	3263.5	2979.6	2647.1	2178.2	1795.9	1415.7	1086.0	831.1	77.6
38°	2780.1	2789.8	2653.3	2435.2	2105.5	1791.1	1445.4	1162.9	908.7	707.1	67.9
39°	2176.1	2168.5	2131.8	1929.6	1631.1	1424.7	1171.2	964.1	757.0	596.3	57.5
40°	1639.4	1651.8	1566.0	1444.1	1270.2	1100.5	932.9	768.8	626.1	502.8	45.0
42.5°	797.2	816.6	759.8	728.6	651.7	585.2	493.8	403.1	342.8	296.4	20.1
45°	388.5	377.5	372.6	357.4	339.4	303.4	268.7	230.6	201.5	173.8	12.5
47.5°	198.8	193.2	193.2	187.0	180.8	169.0	151.7	139.2	125.4	108.0	4.8
50°	59.6	58.9	58.2	58.9	56.8	58.9	60.3	60.9	55.4	54.7	1.4
52.5°	23.5	24.2	23.5	25.6	25.6	24.9	25.6	24.9	24.2	21.5	0.0
55°	6.9	6.9	6.9	6.9	6.9	6.9	7.6	8.3	7.6	8.3	0.0
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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



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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	0.7
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

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	23.5	23.5	23.5	23.5	23.5	23.5
2.5°	27.7	24.2	20.1	16.6	15.2	14.5
5°	29.8	22.2	15.2	11.8	10.4	9.7
7.5°	31.9	20.1	11.8	8.3	6.2	5.5
10°	33.2	17.3	9.0	4.8	3.5	3.5
12.5°	33.2	13.9	6.2	2.8	2.1	2.1
15°	32.6	11.8	4.2	2.1	1.4	1.4
17.5°	31.9	9.0	2.8	1.4	0.7	1.4
20°	29.8	6.9	1.4	0.7	0.7	0.7
21°	29.1	6.2	1.4	0.7	0.7	0.7
22°	27.7	5.5	0.7	0.0	0.7	0.7
23°	26.3	4.2	0.7	0.0	0.0	0.0
24°	24.2	3.5	0.7	0.0	0.0	0.0
25°	22.9	3.5	0.7	0.0	0.0	0.0
26°	21.5	2.1	0.0	0.0	0.0	0.0
27°	19.4	1.4	0.0	0.0	0.0	0.0
28°	18.0	1.4	0.0	0.0	0.0	0.0
29°	15.9	1.4	0.0	0.0	0.0	0.0
30°	13.9	1.4	0.0	0.0	0.0	0.0
31°	11.1	0.7	0.0	0.0	0.0	0.0
32°	9.0	0.7	0.0	0.0	0.0	0.0
33°	6.2	0.7	0.0	0.0	0.0	0.0
34°	4.2	0.7	0.0	0.0	0.0	0.0
35°	3.5	0.7	0.0	0.0	0.0	0.0
36°	2.1	0.7	0.0	0.0	0.0	0.7
37°	2.1	0.7	0.0	0.0	0.0	0.7
38°	1.4	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	1.4
45°	0.0	0.7	0.0	0.0	0.7	1.4
47.5°	0.0	0.7	0.0	0.0	1.4	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.1
52.5°	0.0	1.4	0.7	1.4	2.1	2.8
55°	0.7	1.4	1.4	2.1	2.8	3.5
57.5°	0.7	2.1	2.1	2.8	3.5	3.5
60°	1.4	2.1	2.8	2.8	4.2	4.2
62.5°	1.4	2.8	2.8	2.8	4.2	4.2
65°	1.4	2.8	2.8	3.5	4.2	4.2
67.5°	1.4	2.8	2.8	2.8	3.5	4.2
70°	1.4	2.8	2.1	2.8	3.5	3.5
72.5°	1.4	2.8	2.1	2.1	2.8	3.5
75°	1.4	2.8	2.1	2.1	2.8	2.8
77.5°	1.4	2.1	2.1	1.4	2.1	2.1
80°	1.4	2.1	1.4	1.4	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.4	2.1	1.4	0.7	1.4	1.4
85°	1.4	2.1	1.4	0.7	0.7	0.7
87.5°	1.4	2.1	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)