

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: P1345889

Luminaire Tested: P3A13R35W2N902765DE010 E3CA451MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R35W2N902765DE010 E3CA451MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 2700K CCT AND, 90CRI ,
E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

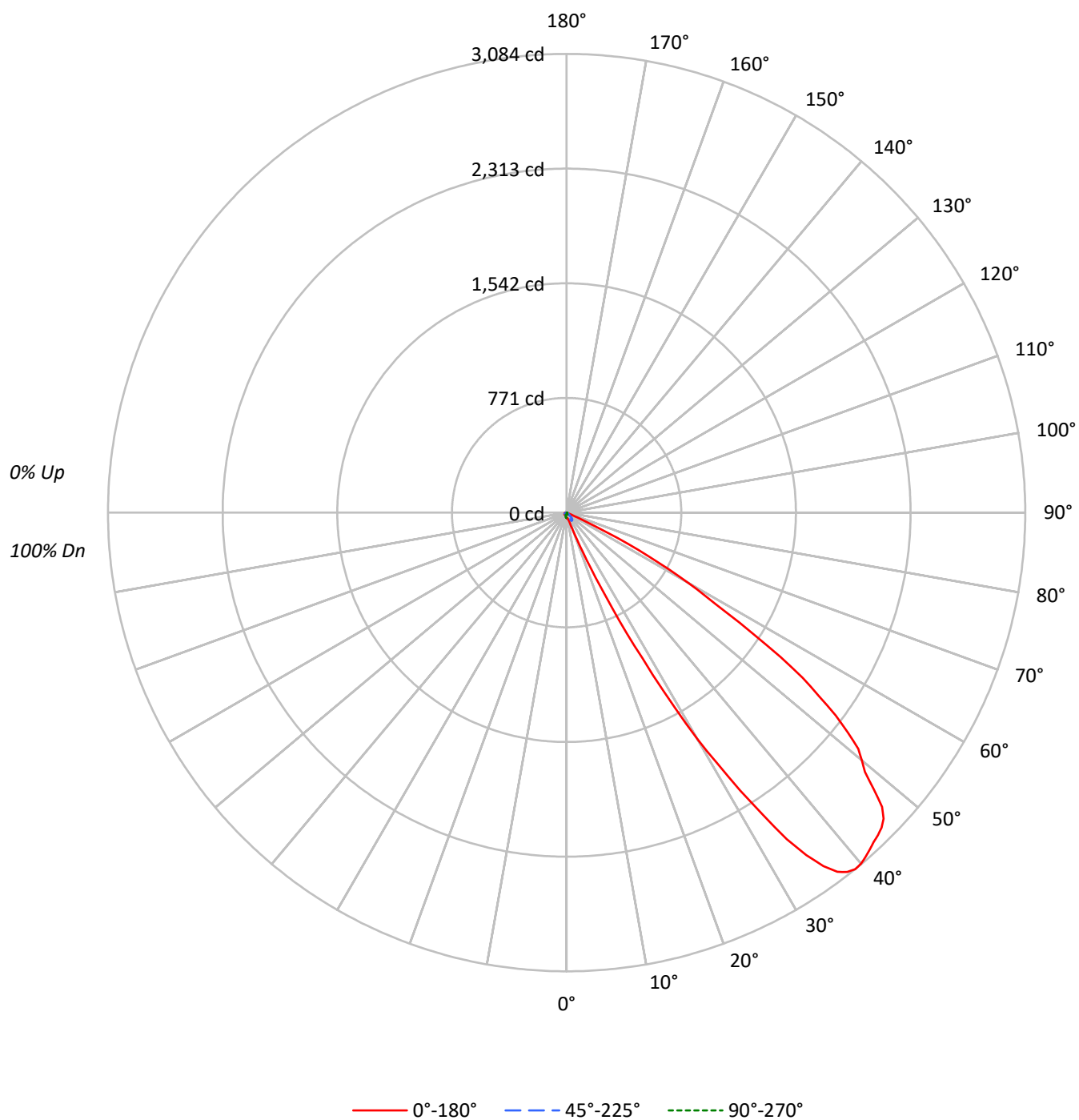
Lumens per Lamp: N/A
Luminaire Lumens: 768.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7763	7763	7763	7763	7763
5°	8387	8232	7638	6868	6714
10°	8795	8038	6791	5856	5856
15°	12599	7877	5516	5040	5199
20°	31549	8424	4364	4364	4854
25°	146428	10743	3363	4016	4524
30°	445182	14559	2633	3697	4558
35°	752376	16891	2222	3534	4444
40°	881938	16660	1775	3578	4752
45°	928779	11815	1520	3876	5148
50°	884065	7096	1433	4025	5663
55°	740791	2906	1606	4511	6614
60°	414704	614	1842	5175	7280
65°	71603	363	1816	5759	8250
70°	1346	449	2244	6219	9361
75°	1186	593	2965	7032	10590
80°	884	884	3536	7829	12249
85°	0	1761	7045	8806	13838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 935353 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	9.1	1.2
20°-30°	47.1	6.1
30°-40°	203.5	26.5
40°-50°	290.3	37.8
50°-60°	179.8	23.4
60°-70°	27.4	3.6
70°-80°	5.1	0.7
80°-90°	2.6	0.3
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°	59.4	7.7
0°-40°	262.9	34.2
0°-60°	733.0	95.4
0°-90°	768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	38	37	35	31	30	4
15°	56	35	24	22	23	20
25°	605	44	14	17	19	362
35°	2811	63	8	13	17	1688
45°	2995	38	5	12	17	2263
55°	1938	8	4	12	17	1650
65°	138	1	4	11	16	282
75°	1	1	4	8	12	1
85°	0	1	3	4	6	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
2.5°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	35.4	34.7
5°	38.1	38.1	37.4	37.4	37.4	37.4	37.4	37.4	36.1	34.7	32.6
7.5°	38.8	38.8	38.1	38.1	38.1	38.1	37.4	36.7	35.4	32.6	30.5
10°	39.5	39.5	39.5	39.5	38.8	38.1	37.4	36.1	34.0	30.5	28.4
12.5°	44.4	44.4	43.7	42.3	40.9	39.5	38.1	35.4	31.2	27.7	25.7
15°	55.5	54.8	53.4	51.3	48.5	45.1	42.3	34.7	28.4	24.3	22.9
17.5°	77.6	76.3	74.2	67.2	61.0	54.8	49.2	34.7	25.7	21.5	20.1
20°	135.2	135.9	121.3	104.7	90.8	75.6	61.7	36.1	22.9	18.7	18.0
22.5°	282.2	271.1	236.4	196.2	149.7	115.8	87.4	39.5	20.1	15.9	15.9
25°	605.2	562.9	479.1	361.9	255.1	180.9	126.9	44.4	18.0	13.9	14.6
27.5°	1105.1	1067.0	898.5	676.6	449.2	273.2	171.9	50.6	15.9	11.8	13.2
30°	1758.2	1652.8	1433.0	1109.3	750.8	418.1	230.9	57.5	13.2	10.4	12.5
31°	1962.0	1913.5	1645.9	1283.3	879.8	496.4	255.8	59.6	12.5	10.4	11.8
32°	2204.0	2118.0	1878.1	1473.9	1010.8	566.4	285.6	61.7	11.8	9.0	11.8
33°	2420.3	2337.1	2045.2	1641.7	1143.2	646.1	317.5	62.4	10.4	9.0	11.1
34°	2647.7	2534.0	2244.9	1817.1	1279.1	732.1	346.6	63.1	9.7	8.3	11.1
35°	2810.6	2696.9	2416.8	1955.8	1396.3	808.4	379.9	63.1	9.0	8.3	10.4
36°	2936.8	2836.9	2565.2	2098.6	1512.7	877.0	406.3	63.1	7.6	7.6	10.4
37°	3023.4	2928.4	2665.0	2221.3	1601.5	938.0	429.8	63.1	6.9	7.6	10.4
38°	3065.7	2986.7	2761.4	2310.7	1687.5	985.9	448.6	61.7	6.2	6.9	9.7
39°	3083.7	3019.3	2820.3	2386.3	1751.9	1027.4	462.4	60.3	5.5	6.9	9.7
40°	3081.0	3024.8	2853.6	2438.3	1803.9	1055.9	470.0	58.2	4.9	6.2	9.7
41°	3065.0	3016.5	2870.9	2482.7	1835.1	1075.3	472.1	56.2	4.2	6.2	9.0
42°	3047.0	3002.6	2876.4	2506.2	1855.2	1081.5	466.6	53.4	4.2	5.5	9.0
43°	3028.3	2987.4	2876.4	2513.8	1860.1	1077.4	457.6	48.5	3.5	5.5	9.0
44°	3013.0	2974.2	2867.4	2511.8	1849.7	1061.4	440.9	43.0	2.8	5.5	9.0
45°	2995.0	2956.9	2855.6	2498.6	1829.6	1034.4	420.1	38.1	2.1	4.9	9.0
46°	2963.1	2933.3	2834.8	2471.6	1797.7	996.9	393.8	34.7	1.4	4.9	8.3
47°	2901.4	2875.7	2794.6	2431.3	1755.4	952.6	366.7	31.2	1.4	4.9	8.3
48°	2777.3	2776.6	2714.2	2356.5	1688.1	897.1	338.3	27.7	1.4	4.9	8.3
49°	2657.4	2644.9	2567.2	2224.7	1591.8	830.6	308.5	25.0	0.7	4.9	8.3
50°	2591.5	2564.5	2436.9	2069.5	1468.4	738.3	276.6	20.8	0.7	4.2	8.3
51°	2522.9	2484.0	2333.6	1929.4	1321.4	649.6	242.0	16.6	0.7	4.2	7.6
52°	2398.8	2362.0	2193.6	1795.6	1178.6	558.8	208.7	13.9	0.7	4.2	8.3
53°	2265.0	2212.3	2029.2	1648.6	1053.1	478.4	174.7	11.8	0.7	4.2	7.6
54°	2096.5	2072.9	1862.9	1468.4	906.1	400.7	143.5	9.7	0.7	4.2	7.6
55°	1937.7	1903.1	1684.7	1284.0	773.0	328.6	119.9	7.6	0.7	4.2	7.6
56°	1735.3	1683.3	1478.8	1114.8	637.8	264.8	101.2	6.2	0.7	4.2	7.6
57°	1494.0	1438.6	1277.0	926.9	500.6	201.7	84.6	4.9	0.7	4.2	7.6
58°	1263.9	1216.0	1042.7	715.5	377.1	140.0	70.0	3.5	0.7	3.5	7.6
59°	1091.9	1039.2	867.3	550.5	262.1	103.3	52.7	2.8	0.7	4.2	7.6
60°	945.6	877.7	698.1	426.4	187.2	74.2	38.8	1.4	1.4	4.2	7.6
62.5°	544.9	481.1	333.5	173.3	77.0	38.1	18.7	0.7	1.4	4.2	7.6
65°	138.0	122.7	79.7	37.4	21.5	13.2	6.9	0.7	1.4	3.5	6.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.9	4.9	4.9	4.2	3.5	2.8	1.4	0.7	1.4	3.5	6.9
70°	2.1	2.1	2.1	1.4	1.4	0.7	0.7	0.7	1.4	3.5	6.2
72.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	3.5	5.5
75°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	3.5	5.5
77.5°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.8	4.9
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.8	4.2
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.8	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	2.1	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	2.8	2.1
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):

	135°	157.5°	180°
0°	35.4	35.4	35.4
2.5°	33.3	33.3	33.3
5°	31.2	31.2	30.5
7.5°	29.1	28.4	28.4
10°	26.3	26.3	26.3
12.5°	24.3	24.3	24.3
15°	22.2	22.9	22.9
17.5°	20.1	21.5	21.5
20°	18.7	20.1	20.8
22.5°	17.3	18.7	19.4
25°	16.6	18.0	18.7
27.5°	15.3	17.3	18.7
30°	14.6	16.6	18.0
31°	14.6	16.6	17.3
32°	13.9	16.6	17.3
33°	13.9	16.6	17.3
34°	13.9	15.9	17.3
35°	13.2	15.9	16.6
36°	13.2	15.9	16.6
37°	13.2	15.9	17.3
38°	13.2	15.9	16.6
39°	12.5	15.9	16.6
40°	12.5	15.9	16.6
41°	12.5	15.9	16.6
42°	12.5	15.9	16.6
43°	12.5	15.9	16.6
44°	12.5	15.3	16.6
45°	12.5	15.3	16.6
46°	12.5	15.9	16.6
47°	12.5	15.9	17.3
48°	12.5	15.3	16.6
49°	11.8	15.3	16.6
50°	11.8	15.3	16.6
51°	11.8	15.9	17.3
52°	11.8	15.9	17.3
53°	11.8	15.9	17.3
54°	11.8	15.9	16.6
55°	11.8	15.9	17.3
56°	11.8	15.9	16.6
57°	11.8	15.9	16.6
58°	11.8	15.3	16.6
59°	11.8	15.3	16.6
60°	11.8	15.3	16.6
62.5°	11.1	15.3	16.6
65°	11.1	14.6	15.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	10.4	14.6	15.3
70°	9.7	13.9	14.6
72.5°	9.0	13.2	13.9
75°	8.3	11.8	12.5
77.5°	6.9	10.4	11.8
80°	6.2	9.0	9.7
82.5°	4.9	7.6	8.3
85°	3.5	5.5	5.5
87.5°	1.4	2.8	2.8
90°	0.0	0.0	0.0

(END OF REPORT)