

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: P1345377

Luminaire Tested: P3A13R30W2N902765DE010 E3CA451MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R30W2N902765DE010 E3CA451MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI ,
E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

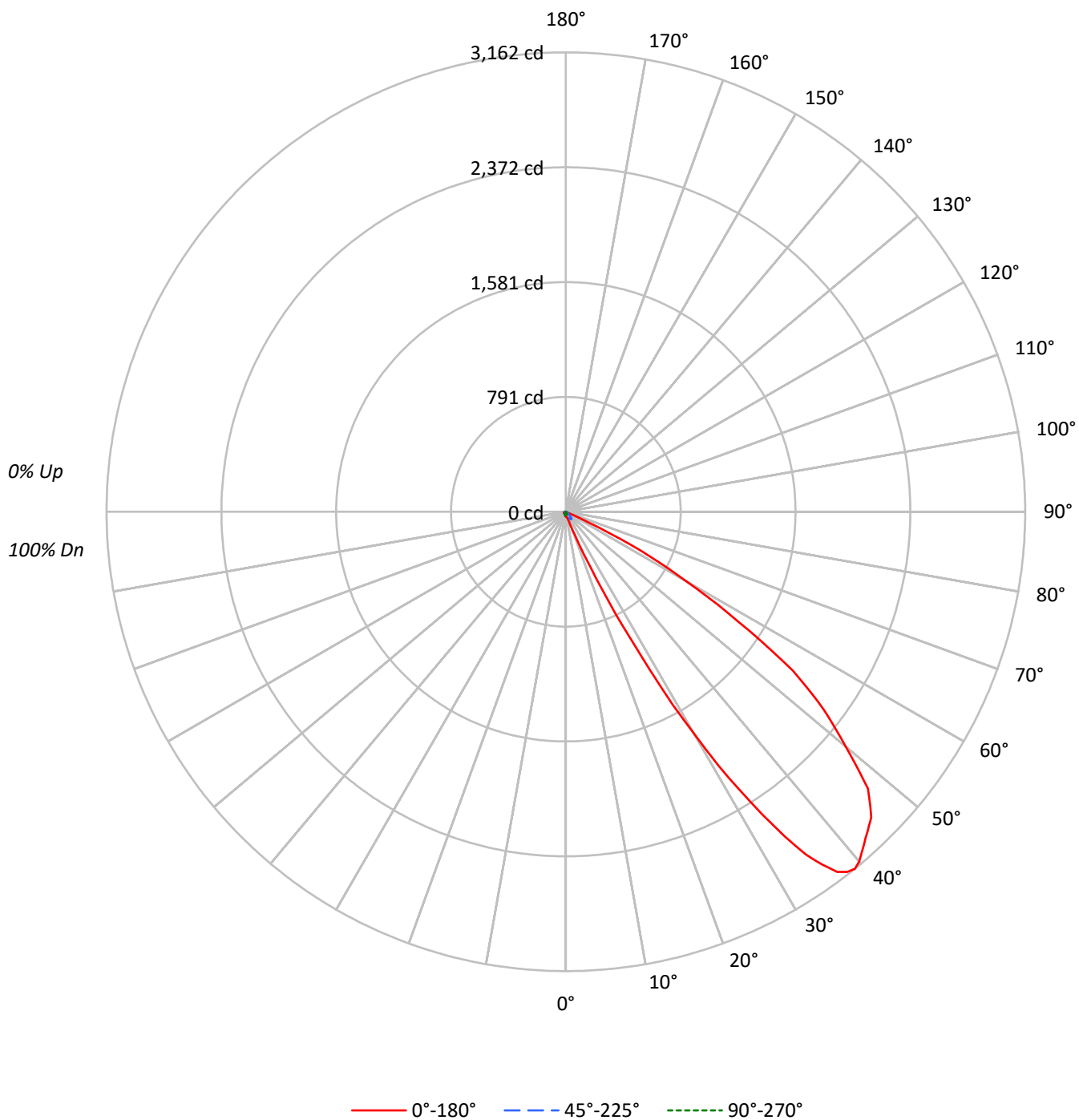
Lumens per Lamp: N/A
Luminaire Lumens: 822.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	108	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	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6995	6995	6995	6995	6995
5°	7462	7308	6868	6251	6097
10°	8172	7237	6012	5388	5233
15°	11941	7242	5040	4563	4722
20°	30056	7911	3874	3874	4364
25°	139556	9896	3024	3508	4016
30°	444271	13673	2279	3342	4026
35°	770900	16677	1847	3159	4069
40°	899056	16660	1374	3177	4151
45°	922018	11815	1489	3442	4497
50°	857456	6618	1194	3548	5185
55°	728748	3441	1338	3976	5811
60°	420887	921	1535	4254	6359
65°	85872	0	1816	5033	7160
70°	1346	449	2244	5770	8463
75°	1186	593	2372	5846	9997
80°	884	884	3536	6945	11365
85°	0	1761	7045	7045	13838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 922018 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.4
10°-20°	8.3	1.0
20°-30°	47.4	5.8
30°-40°	221.4	26.9
40°-50°	313.1	38.1
50°-60°	192.6	23.4
60°-70°	29.3	3.6
70°-80°	4.7	0.6
80°-90°	2.3	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°	58.6	7.1
0°-40°	280.0	34.1
0°-60°	785.7	95.6
0°-90°	822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	34	33	31	28	28	3
15°	53	32	22	20	21	19
25°	577	41	12	14	17	355
35°	2880	62	7	12	15	1728
45°	2973	38	5	11	14	2254
55°	1906	9	4	10	15	1622
65°	166	0	4	10	14	299
75°	1	1	3	7	12	1
85°	0	1	3	3	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2.5°	32.5	32.5	33.2	33.2	32.5	33.2	33.2	33.2	31.9	31.2	29.8
5°	33.9	33.9	33.9	34.6	33.9	33.9	33.2	32.5	31.2	29.1	28.4
7.5°	35.3	35.3	34.6	35.3	34.6	34.6	33.2	31.9	29.8	27.7	26.3
10°	36.7	36.7	36.0	36.0	35.3	35.3	32.5	30.5	27.0	24.9	24.2
12.5°	40.9	40.9	40.2	39.5	38.1	37.4	31.9	28.4	24.2	22.2	21.5
15°	52.6	51.9	50.5	48.5	45.0	44.3	31.9	26.3	22.2	20.1	20.1
17.5°	72.0	71.3	69.2	63.7	57.5	55.4	31.9	23.5	19.4	18.0	18.0
20°	128.8	123.3	112.9	99.0	84.5	76.9	33.9	20.8	16.6	15.9	16.6
21°	168.3	162.7	149.6	126.7	101.1	92.8	35.3	20.1	15.9	15.2	16.6
22°	229.2	223.0	196.0	164.8	128.1	113.6	36.0	18.7	14.5	14.5	15.9
23°	319.9	309.5	263.8	214.0	159.9	139.2	37.4	18.0	13.8	14.5	15.2
24°	418.9	409.9	358.0	283.2	204.3	174.5	38.8	17.3	13.2	13.2	14.5
25°	576.8	566.4	474.3	357.3	259.0	209.8	40.9	15.9	12.5	12.5	14.5
26°	781.0	733.3	610.7	460.5	319.2	263.1	42.9	15.2	11.8	12.5	13.8
27°	974.9	935.5	797.7	590.6	394.7	323.4	45.7	14.5	11.1	11.8	13.8
28°	1229.7	1174.3	1000.5	747.1	497.2	391.2	48.5	13.8	10.4	11.8	13.2
29°	1515.0	1437.5	1227.7	923.0	612.8	467.4	51.2	13.2	9.7	11.1	13.2
30°	1754.6	1681.9	1472.1	1131.4	745.7	567.8	54.0	12.5	9.0	11.1	13.2
31°	2035.7	1925.6	1671.5	1308.0	860.0	668.2	56.8	11.1	8.3	10.4	12.5
32°	2263.5	2186.7	1916.6	1507.4	1010.2	779.0	58.9	10.4	8.3	10.4	12.5
33°	2483.7	2380.5	2119.5	1698.5	1146.0	892.5	60.9	9.7	7.6	9.7	12.5
34°	2694.2	2599.3	2311.3	1852.9	1274.0	1000.5	62.3	8.3	7.6	9.7	11.8
35°	2879.8	2769.7	2480.2	2003.9	1405.6	1098.9	62.3	7.6	6.9	9.0	11.8
36°	3000.2	2921.3	2627.0	2152.7	1524.7	1192.3	62.3	6.9	6.2	9.0	11.1
37°	3103.4	3011.3	2744.7	2267.0	1612.6	1267.1	62.3	6.2	6.2	9.0	11.1
38°	3145.7	3066.7	2825.8	2368.1	1695.0	1343.3	61.6	5.5	5.5	8.3	11.1
39°	3162.3	3091.6	2886.7	2440.8	1756.0	1394.5	60.2	4.8	5.5	8.3	11.1
40°	3140.8	3087.5	2917.8	2487.9	1804.4	1431.9	58.2	4.2	4.8	8.3	11.1
42.5°	3052.2	3016.9	2910.9	2534.9	1846.0	1459.6	50.5	2.8	4.8	7.6	11.1
45°	2973.2	2934.5	2841.0	2485.8	1792.0	1404.9	38.1	1.4	4.8	7.6	11.1
47.5°	2820.2	2796.0	2722.6	2360.5	1673.6	1281.7	27.0	0.7	4.2	6.9	10.4
50°	2513.5	2490.6	2393.7	2049.6	1439.5	1083.6	19.4	0.7	3.5	6.9	10.4
52.5°	2238.6	2214.4	2075.2	1704.0	1105.8	794.2	12.5	0.7	3.5	6.9	10.4
55°	1906.2	1864.0	1681.2	1293.4	783.8	532.5	9.0	0.7	3.5	6.2	10.4
57.5°	1411.1	1349.5	1186.1	882.1	451.5	288.7	4.8	0.7	3.5	6.2	10.4
60°	959.7	923.0	742.3	465.3	192.5	121.9	2.1	0.7	3.5	6.2	9.7
62.5°	581.6	535.2	373.2	198.0	83.1	55.4	0.0	1.4	3.5	6.2	9.7
65°	165.5	146.8	97.6	45.0	23.5	18.0	0.0	1.4	3.5	6.2	9.7
67.5°	5.5	5.5	5.5	4.8	3.5	3.5	0.7	1.4	3.5	6.2	9.0
70°	2.1	2.1	2.1	1.4	1.4	0.7	0.7	1.4	3.5	5.5	9.0
72.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	1.4	2.8	4.8	8.3
75°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	2.8	4.8	6.9
77.5°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	2.8	4.2	6.9
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.8	4.2	5.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.7	2.1	2.8	2.8	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	2.8	2.1	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	2.1	2.1	1.4
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):

	157.5°	180°
0°	31.9	31.9
2.5°	29.8	29.8
5°	27.7	27.7
7.5°	25.6	25.6
10°	23.5	23.5
12.5°	22.2	22.2
15°	20.1	20.8
17.5°	18.7	19.4
20°	18.0	18.7
21°	18.0	18.7
22°	17.3	18.0
23°	17.3	18.0
24°	16.6	17.3
25°	15.9	16.6
26°	15.9	16.6
27°	15.9	16.6
28°	15.2	16.6
29°	15.2	15.9
30°	15.2	15.9
31°	14.5	15.9
32°	14.5	15.9
33°	14.5	15.2
34°	13.8	15.2
35°	13.8	15.2
36°	13.8	15.2
37°	13.8	14.5
38°	13.8	15.2
39°	13.8	14.5
40°	13.8	14.5
42.5°	13.8	14.5
45°	13.8	14.5
47.5°	13.8	15.2
50°	13.8	15.2
52.5°	13.8	15.2
55°	13.8	15.2
57.5°	13.8	14.5
60°	13.8	14.5
62.5°	13.2	14.5
65°	13.2	13.8
67.5°	13.2	13.8
70°	12.5	13.2
72.5°	11.8	12.5
75°	10.4	11.8
77.5°	9.7	10.4
80°	8.3	9.0



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	6.9	6.9
85°	4.8	5.5
87.5°	2.8	2.8
90°	0.0	0.0

(END OF REPORT)