

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: P1345280

Luminaire Tested: P3A13R30W2N902750DE010 E3CA451MMS_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345280
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: P3A13R30W2N902750DE010 E3CA451MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

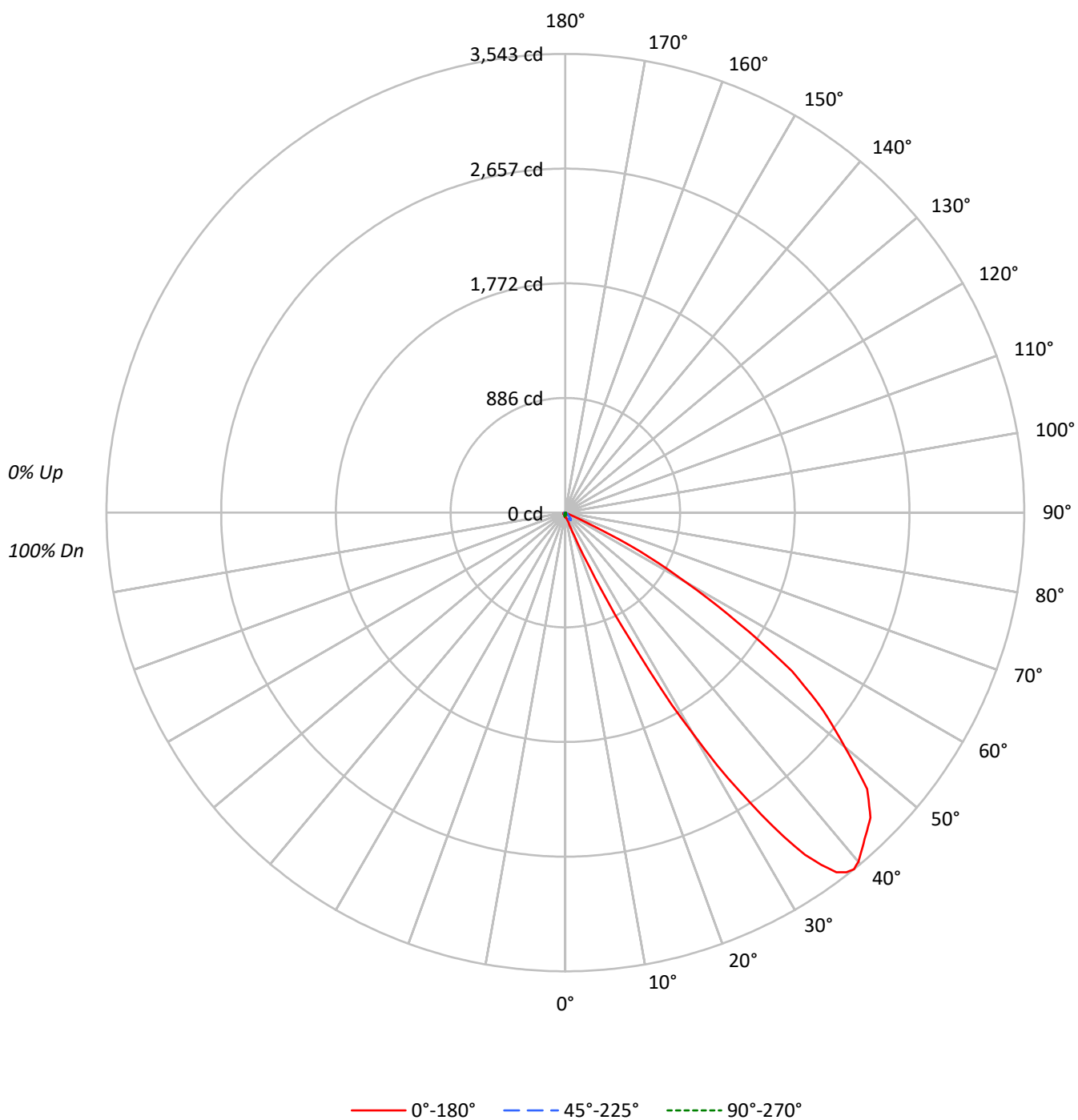
Lumens per Lamp: N/A
Luminaire Lumens: 921.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	7828	7828	7828	7828	7828
5°	8364	8188	7682	7000	6824
10°	9151	8127	6747	6056	5878
15°	13394	8104	5630	5108	5289
20°	33673	8867	4340	4340	4877
25°	156372	11081	3387	3944	4500
30°	497773	15319	2557	3722	4507
35°	863736	18685	2088	3534	4578
40°	1007344	18664	1546	3550	4666
45°	1033068	13242	1675	3845	5055
50°	960719	7403	1330	3957	5833
55°	816525	3861	1491	4435	6537
60°	471585	1009	1710	4780	7149
65°	96197	0	2024	5656	8042
70°	1475	513	2500	6475	9425
75°	1356	678	2626	6608	11184
80°	1010	1010	3915	7829	12754
85°	0	2013	7799	7799	15599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1033068 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	9.3	1.0
20°-30°	53.1	5.8
30°-40°	248.1	26.9
40°-50°	350.8	38.1
50°-60°	215.8	23.4
60°-70°	32.9	3.6
70°-80°	5.2	0.6
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°	65.6	7.1
0°-40°	313.7	34.1
0°-60°	880.3	95.6
0°-90°	921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	38	37	35	32	31	4
15°	59	36	25	22	23	21
25°	646	46	14	16	19	398
35°	3227	70	8	13	17	1936
45°	3331	43	5	12	16	2526
55°	2136	10	4	12	17	1817
65°	185	0	4	11	16	336
75°	2	1	3	8	13	2
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°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
2.5°	36.5	36.5	37.2	37.2	36.5	37.2	37.2	37.2	35.7	34.9	33.4
5°	38.0	38.0	38.0	38.8	38.0	38.0	37.2	36.5	34.9	32.6	31.8
7.5°	39.6	39.6	38.8	39.6	38.8	38.8	37.2	35.7	33.4	31.0	29.5
10°	41.1	41.1	40.3	40.3	39.6	39.6	36.5	34.1	30.3	27.9	27.2
12.5°	45.8	45.8	45.0	44.2	42.7	41.9	35.7	31.8	27.2	24.8	24.1
15°	59.0	58.2	56.6	54.3	50.4	49.7	35.7	29.5	24.8	22.5	22.5
17.5°	80.7	79.9	77.6	71.4	64.4	62.1	35.7	26.4	21.7	20.2	20.2
20°	144.3	138.1	126.5	110.9	94.6	86.1	38.0	23.3	18.6	17.8	18.6
21°	188.5	182.3	167.6	142.0	113.3	104.0	39.6	22.5	17.8	17.1	18.6
22°	256.8	249.8	219.6	184.6	143.5	127.2	40.3	20.9	16.3	16.3	17.8
23°	358.4	346.8	295.6	239.7	179.2	155.9	41.9	20.2	15.5	16.3	17.1
24°	469.4	459.3	401.1	317.3	228.9	195.5	43.4	19.4	14.7	14.7	16.3
25°	646.3	634.6	531.4	400.3	290.2	235.1	45.8	17.8	14.0	14.0	16.3
26°	875.1	821.6	684.3	515.9	357.6	294.8	48.1	17.1	13.2	14.0	15.5
27°	1092.3	1048.1	893.7	661.8	442.2	362.3	51.2	16.3	12.4	13.2	15.5
28°	1377.8	1315.8	1121.0	837.1	557.0	438.3	54.3	15.5	11.6	13.2	14.7
29°	1697.5	1610.6	1375.5	1034.2	686.6	523.7	57.4	14.7	10.9	12.4	14.7
30°	1965.9	1884.4	1649.4	1267.7	835.5	636.2	60.5	14.0	10.1	12.4	14.7
31°	2280.9	2157.5	1872.8	1465.5	963.6	748.7	63.6	12.4	9.3	11.6	14.0
32°	2536.1	2450.0	2147.4	1688.9	1131.9	872.8	65.9	11.6	9.3	11.6	14.0
33°	2782.8	2667.2	2374.8	1903.1	1284.0	1000.0	68.3	10.9	8.5	10.9	14.0
34°	3018.7	2912.4	2589.7	2076.1	1427.5	1121.0	69.8	9.3	8.5	10.9	13.2
35°	3226.6	3103.2	2779.0	2245.2	1574.9	1231.2	69.8	8.5	7.8	10.1	13.2
36°	3361.6	3273.1	2943.4	2412.0	1708.3	1335.9	69.8	7.8	7.0	10.1	12.4
37°	3477.2	3374.0	3075.3	2540.0	1806.9	1419.7	69.8	7.0	7.0	10.1	12.4
38°	3524.5	3436.1	3166.1	2653.3	1899.2	1505.1	69.0	6.2	6.2	9.3	12.4
39°	3543.1	3464.0	3234.4	2734.7	1967.5	1562.5	67.5	5.4	6.2	9.3	12.4
40°	3519.1	3459.3	3269.3	2787.5	2021.8	1604.4	65.2	4.7	5.4	9.3	12.4
42.5°	3419.8	3380.2	3261.5	2840.2	2068.3	1635.4	56.6	3.1	5.4	8.5	12.4
45°	3331.3	3287.9	3183.2	2785.2	2007.8	1574.1	42.7	1.6	5.4	8.5	12.4
47.5°	3159.9	3132.7	3050.5	2644.7	1875.1	1436.0	30.3	0.8	4.7	7.8	11.6
50°	2816.2	2790.6	2682.0	2296.4	1612.9	1214.1	21.7	0.8	3.9	7.8	11.6
52.5°	2508.2	2481.0	2325.1	1909.3	1239.0	889.9	14.0	0.8	3.9	7.8	11.6
55°	2135.8	2088.5	1883.7	1449.2	878.2	596.6	10.1	0.8	3.9	7.0	11.6
57.5°	1581.1	1512.1	1329.0	988.4	505.8	323.5	5.4	0.8	3.9	7.0	11.6
60°	1075.3	1034.2	831.7	521.3	215.7	136.5	2.3	0.8	3.9	7.0	10.9
62.5°	651.7	599.7	418.2	221.9	93.1	62.1	0.0	1.6	3.9	7.0	10.9
65°	185.4	164.5	109.4	50.4	26.4	20.2	0.0	1.6	3.9	7.0	10.9
67.5°	6.2	6.2	6.2	5.4	3.9	3.9	0.8	1.6	3.9	7.0	10.1
70°	2.3	2.3	2.3	1.6	1.6	0.8	0.8	1.6	3.9	6.2	10.1
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	1.6	3.1	5.4	9.3
75°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.3	3.1	5.4	7.8
77.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.3	3.1	4.7	7.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	4.7	6.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	2.3	3.1	3.1	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	2.3	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.3	2.3	1.6
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°	35.7	35.7
2.5°	33.4	33.4
5°	31.0	31.0
7.5°	28.7	28.7
10°	26.4	26.4
12.5°	24.8	24.8
15°	22.5	23.3
17.5°	20.9	21.7
20°	20.2	20.9
21°	20.2	20.9
22°	19.4	20.2
23°	19.4	20.2
24°	18.6	19.4
25°	17.8	18.6
26°	17.8	18.6
27°	17.8	18.6
28°	17.1	18.6
29°	17.1	17.8
30°	17.1	17.8
31°	16.3	17.8
32°	16.3	17.8
33°	16.3	17.1
34°	15.5	17.1
35°	15.5	17.1
36°	15.5	17.1
37°	15.5	16.3
38°	15.5	17.1
39°	15.5	16.3
40°	15.5	16.3
42.5°	15.5	16.3
45°	15.5	16.3
47.5°	15.5	17.1
50°	15.5	17.1
52.5°	15.5	17.1
55°	15.5	17.1
57.5°	15.5	16.3
60°	15.5	16.3
62.5°	14.7	16.3
65°	14.7	15.5
67.5°	14.7	15.5
70°	14.0	14.7
72.5°	13.2	14.0
75°	11.6	13.2
77.5°	10.9	11.6
80°	9.3	10.1



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.8	7.8
85°	5.4	6.2
87.5°	3.1	3.1
90°	0.0	0.0

(END OF REPORT)