

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: P1345381

Luminaire Tested: P3A13R30W2N902765DE010 E3CA451MW_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345381
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_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 90CRI ,
E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

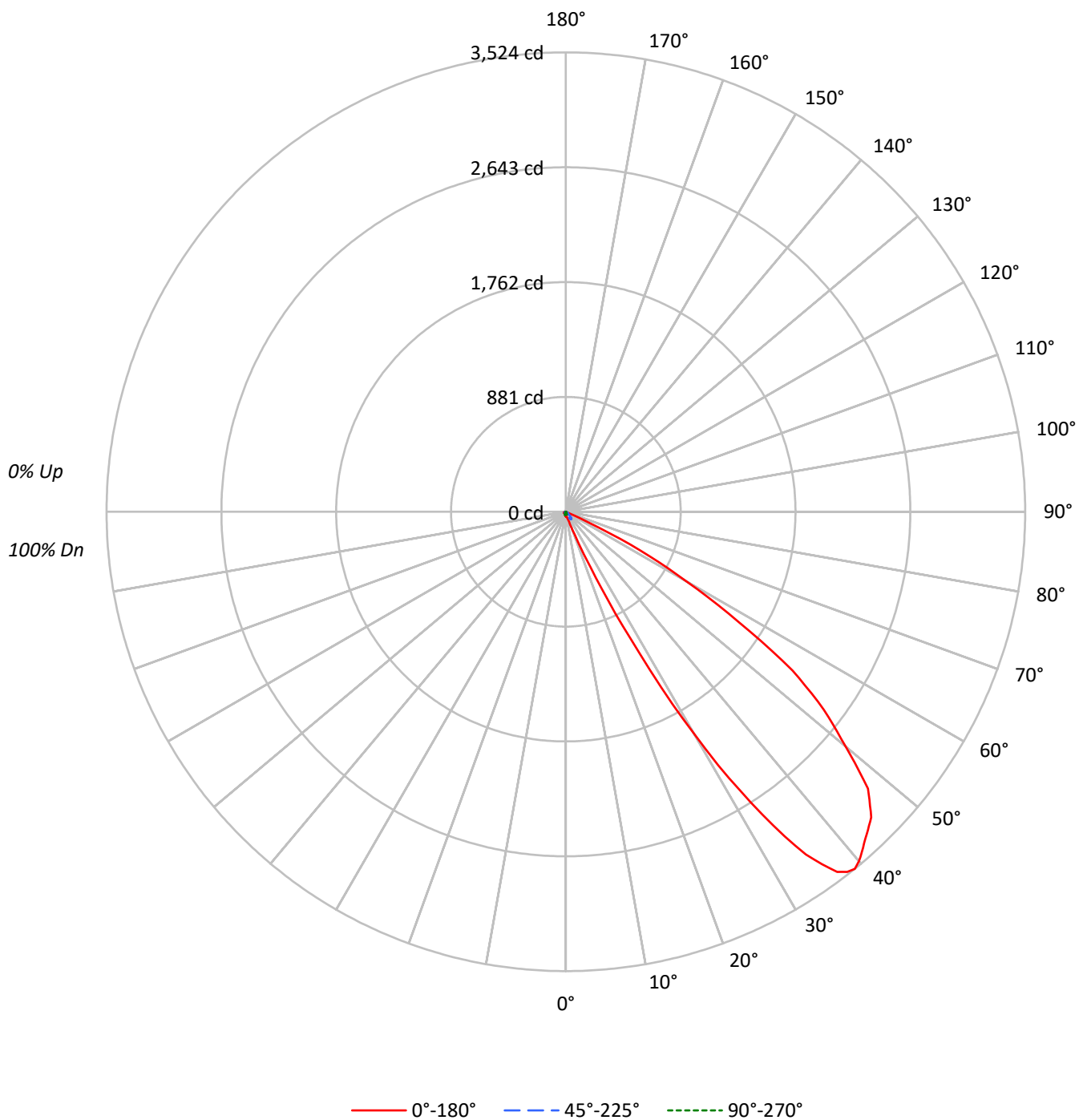
Lumens per Lamp: N/A
Luminaire Lumens: 916.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	7784	7784	7784	7784	7784
5°	8320	8144	7638	6956	6802
10°	9107	8083	6702	6012	5834
15°	13303	8059	5607	5085	5244
20°	33486	8821	4317	4317	4854
25°	155501	11009	3363	3920	4476
30°	495064	15243	2532	3722	4482
35°	859051	18578	2061	3507	4551
40°	1001877	18549	1546	3521	4637
45°	1027455	13149	1675	3814	5024
50°	955500	7369	1330	3957	5799
55°	812091	3823	1491	4435	6499
60°	468998	1009	1710	4736	7105
65°	95678	0	2024	5604	7990
70°	1475	513	2500	6411	9425
75°	1271	678	2626	6524	11099
80°	1010	1010	3915	7829	12628
85°	0	2013	7799	7799	15599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1027455 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	9.2	1.0
20°-30°	52.8	5.8
30°-40°	246.7	26.9
40°-50°	348.9	38.1
50°-60°	214.7	23.4
60°-70°	32.7	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°	65.3	7.1
0°-40°	312.0	34.1
0°-60°	875.5	95.6
0°-90°	916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.0	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°	643	46	14	16	18	396
35°	3209	69	8	13	17	1926
45°	3313	42	5	12	16	2512
55°	2124	10	4	12	17	1807
65°	184	0	4	11	15	334
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°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	36.3	36.3	37.0	37.0	36.3	37.0	37.0	37.0	35.5	34.7	33.2
5°	37.8	37.8	37.8	38.6	37.8	37.8	37.0	36.3	34.7	32.4	31.6
7.5°	39.4	39.4	38.6	39.4	38.6	38.6	37.0	35.5	33.2	30.9	29.3
10°	40.9	40.9	40.1	40.1	39.4	39.4	36.3	34.0	30.1	27.8	27.0
12.5°	45.5	45.5	44.8	44.0	42.4	41.7	35.5	31.6	27.0	24.7	23.9
15°	58.6	57.9	56.3	54.0	50.2	49.4	35.5	29.3	24.7	22.4	22.4
17.5°	80.2	79.5	77.2	71.0	64.0	61.7	35.5	26.2	21.6	20.1	20.1
20°	143.5	137.3	125.8	110.3	94.1	85.6	37.8	23.1	18.5	17.7	18.5
21°	187.5	181.3	166.7	141.2	112.7	103.4	39.4	22.4	17.7	17.0	18.5
22°	255.4	248.5	218.4	183.6	142.7	126.5	40.1	20.8	16.2	16.2	17.7
23°	356.5	344.9	294.0	238.4	178.2	155.1	41.7	20.1	15.4	16.2	17.0
24°	466.8	456.8	398.9	315.6	227.6	194.4	43.2	19.3	14.7	14.7	16.2
25°	642.7	631.2	528.5	398.1	288.6	233.8	45.5	17.7	13.9	13.9	16.2
26°	870.4	817.1	680.6	513.1	355.7	293.2	47.8	17.0	13.1	13.9	15.4
27°	1086.4	1042.4	888.9	658.2	439.8	360.3	50.9	16.2	12.3	13.1	15.4
28°	1370.4	1308.6	1115.0	832.6	554.0	436.0	54.0	15.4	11.6	13.1	14.7
29°	1688.3	1601.8	1368.0	1028.5	682.9	520.8	57.1	14.7	10.8	12.3	14.7
30°	1955.2	1874.2	1640.4	1260.8	831.0	632.7	60.2	13.9	10.0	12.3	14.7
31°	2268.5	2145.8	1862.6	1457.6	958.3	744.6	63.3	12.3	9.3	11.6	13.9
32°	2522.4	2436.7	2135.8	1679.8	1125.8	868.0	65.6	11.6	9.3	11.6	13.9
33°	2767.7	2652.8	2361.9	1892.7	1277.0	994.6	67.9	10.8	8.5	10.8	13.9
34°	3002.3	2896.6	2575.6	2064.8	1419.7	1115.0	69.4	9.3	8.5	10.8	13.1
35°	3209.1	3086.4	2763.9	2233.0	1566.3	1224.5	69.4	8.5	7.7	10.0	13.1
36°	3343.3	3255.4	2927.4	2398.9	1699.1	1328.7	69.4	7.7	6.9	10.0	12.3
37°	3458.3	3355.7	3058.6	2526.2	1797.1	1412.0	69.4	6.9	6.9	10.0	12.3
38°	3505.4	3417.4	3148.9	2638.9	1888.9	1496.9	68.7	6.2	6.2	9.3	12.3
39°	3523.9	3445.2	3216.8	2719.9	1956.8	1554.0	67.1	5.4	6.2	9.3	12.3
40°	3500.0	3440.6	3251.5	2772.4	2010.8	1595.7	64.8	4.6	5.4	9.3	12.3
42.5°	3401.2	3361.9	3243.8	2824.8	2057.1	1626.5	56.3	3.1	5.4	8.5	12.3
45°	3313.2	3270.0	3165.9	2770.0	1996.9	1565.6	42.4	1.5	5.4	8.5	12.3
47.5°	3142.7	3115.7	3033.9	2630.4	1865.0	1428.2	30.1	0.8	4.6	7.7	11.6
50°	2800.9	2775.4	2667.4	2283.9	1604.2	1207.6	21.6	0.8	3.9	7.7	11.6
52.5°	2494.6	2467.6	2312.5	1898.9	1232.2	885.0	13.9	0.8	3.9	7.7	11.6
55°	2124.2	2077.1	1873.4	1441.3	873.5	593.4	10.0	0.8	3.9	6.9	11.6
57.5°	1572.5	1503.8	1321.8	983.0	503.1	321.8	5.4	0.8	3.9	6.9	11.6
60°	1069.4	1028.5	827.2	518.5	214.5	135.8	2.3	0.8	3.9	6.9	10.8
62.5°	648.1	596.4	415.9	220.7	92.6	61.7	0.0	1.5	3.9	6.9	10.8
65°	184.4	163.6	108.8	50.2	26.2	20.1	0.0	1.5	3.9	6.9	10.8
67.5°	6.2	6.2	6.2	5.4	3.9	3.9	0.8	1.5	3.9	6.9	10.0
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	1.5	3.9	6.2	10.0
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	3.1	5.4	9.3
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	5.4	7.7
77.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	4.6	7.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	4.6	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	4.6
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	1.5
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°	35.5	35.5
2.5°	33.2	33.2
5°	30.9	30.9
7.5°	28.5	28.5
10°	26.2	26.2
12.5°	24.7	24.7
15°	22.4	23.1
17.5°	20.8	21.6
20°	20.1	20.8
21°	20.1	20.8
22°	19.3	20.1
23°	19.3	20.1
24°	18.5	19.3
25°	17.7	18.5
26°	17.7	18.5
27°	17.7	18.5
28°	17.0	18.5
29°	17.0	17.7
30°	17.0	17.7
31°	16.2	17.7
32°	16.2	17.7
33°	16.2	17.0
34°	15.4	17.0
35°	15.4	17.0
36°	15.4	17.0
37°	15.4	16.2
38°	15.4	17.0
39°	15.4	16.2
40°	15.4	16.2
42.5°	15.4	16.2
45°	15.4	16.2
47.5°	15.4	17.0
50°	15.4	17.0
52.5°	15.4	17.0
55°	15.4	17.0
57.5°	15.4	16.2
60°	15.4	16.2
62.5°	14.7	16.2
65°	14.7	15.4
67.5°	14.7	15.4
70°	13.9	14.7
72.5°	13.1	13.9
75°	11.6	13.1
77.5°	10.8	11.6
80°	9.3	10.0



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.7	7.7
85°	5.4	6.2
87.5°	3.1	3.1
90°	0.0	0.0

(END OF REPORT)