

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: P1344870

Luminaire Tested: P3A13R25W2N902765DE010 E3CA451MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R25W2N902765DE010 E3CA451MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,
E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

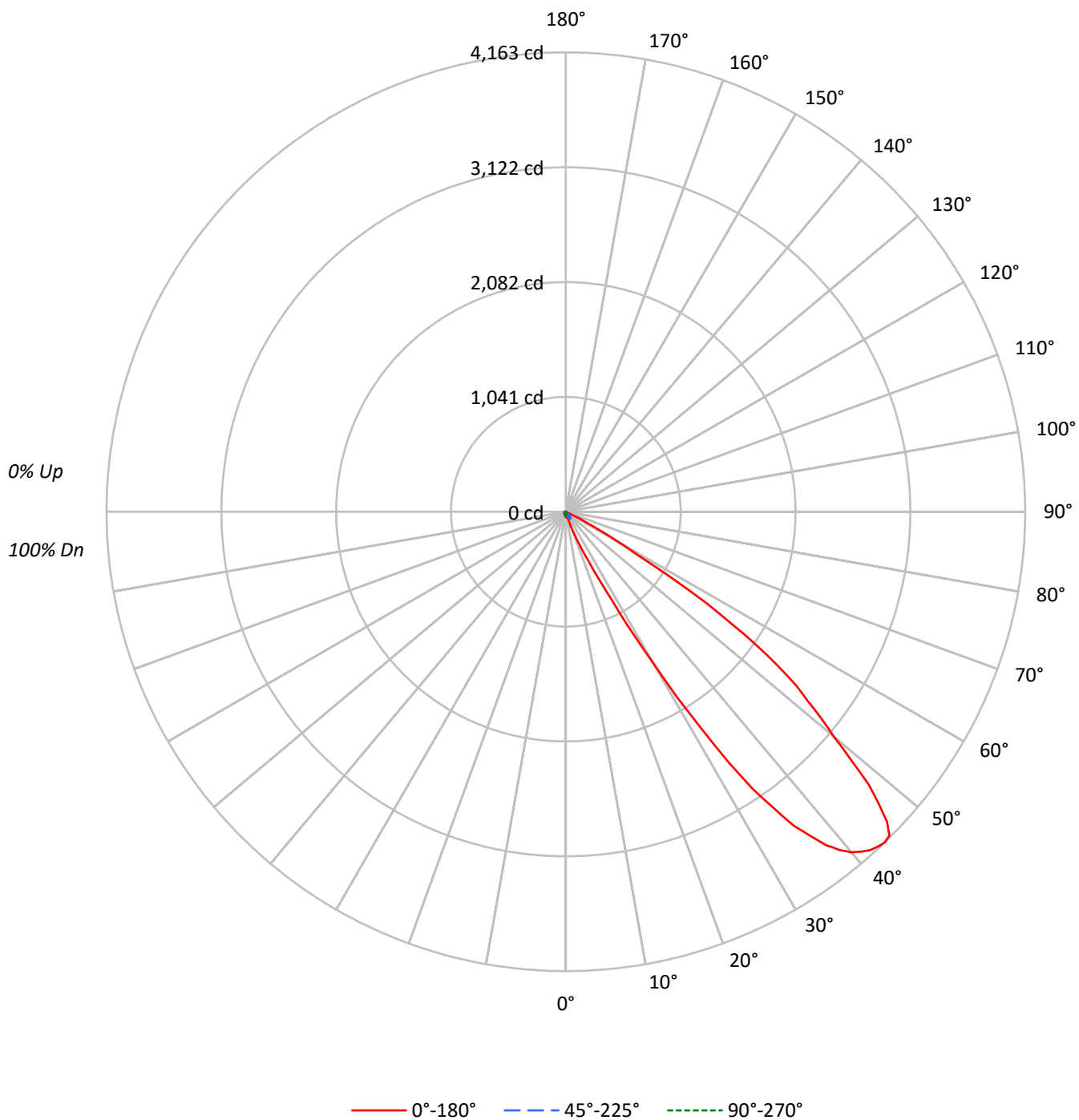
Lumens per Lamp: N/A
Luminaire Lumens: 868.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9714	9714	9714	9714	9714
5°	11094	10588	9421	8409	8232
10°	11044	10042	7994	6969	6969
15°	12304	8672	6243	5902	6243
20°	43497	8564	4807	4994	5530
25°	125112	10912	3871	4621	5371
30°	399175	16838	3089	4456	5419
35°	874310	19836	2650	4283	5514
40°	1153332	17919	2176	4380	5897
45°	1286180	12559	2140	4745	6388
50°	1082677	6516	2081	4947	7027
55°	809453	2638	2026	5543	7875
60°	250550	658	2017	6008	8727
65°	21377	0	2387	6330	9495
70°	1475	513	2436	7373	10771
75°	1271	678	3219	7795	12285
80°	1010	1010	4799	8713	14522
85°	2013	2013	7799	9561	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1286180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.5
10°-20°	10.2	1.2
20°-30°	48.0	5.5
30°-40°	231.2	26.6
40°-50°	362.4	41.8
50°-60°	185.8	21.4
60°-70°	17.5	2.0
70°-80°	5.9	0.7
80°-90°	3.0	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°	62.2	7.2
0°-40°	293.4	33.8
0°-60°	841.6	97.0
0°-90°	868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	50	48	43	38	37	5
15°	54	38	28	26	28	23
25°	517	45	16	19	22	321
35°	3266	74	10	16	21	1983
45°	4148	40	7	15	21	3035
55°	2117	7	5	14	21	1763
65°	41	0	5	12	18	129
75°	2	1	4	9	14	2
85°	1	1	3	4	6	1
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°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
2.5°	48.1	48.1	48.1	48.1	48.1	48.1	47.4	47.4	48.1	47.4	47.4
5°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	49.6	49.6	49.6	48.1
7.5°	51.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	49.6	49.6	47.4
10°	49.6	49.6	49.6	49.6	48.9	48.9	48.9	48.1	48.1	48.1	45.1
12.5°	49.6	49.6	49.6	49.6	48.9	48.9	48.1	48.1	47.4	46.6	41.2
15°	54.2	54.2	54.2	53.5	52.7	51.9	51.2	50.4	49.6	48.1	38.2
17.5°	79.4	77.1	76.4	73.3	69.5	65.7	62.6	59.6	56.5	54.2	36.7
20°	186.4	185.6	181.8	172.6	162.7	151.2	139.8	126.8	108.5	96.2	36.7
22.5°	323.1	318.5	311.6	304.8	287.2	266.6	245.2	220.7	197.1	171.9	39.0
25°	517.1	527.8	504.9	486.6	456.0	418.6	378.1	344.5	301.7	262.0	45.1
27.5°	899.0	905.9	860.8	801.2	730.2	651.5	575.2	517.9	446.1	380.4	56.5
30°	1576.5	1583.4	1507.8	1381.0	1234.3	1105.2	930.3	776.8	635.5	526.3	66.5
31°	1967.6	1914.1	1826.3	1703.3	1517.7	1322.9	1112.9	927.3	748.5	604.9	69.5
32°	2307.5	2302.9	2200.6	2014.2	1827.8	1587.2	1326.8	1084.6	865.4	684.4	71.8
33°	2708.5	2678.0	2533.6	2357.9	2111.2	1869.1	1533.0	1256.5	985.3	773.0	73.3
34°	3030.1	2947.6	2888.0	2687.1	2426.7	2118.1	1758.3	1438.3	1135.0	858.5	74.1
35°	3266.1	3248.5	3132.4	2945.3	2680.2	2364.8	2001.2	1626.9	1260.3	957.8	74.1
36°	3515.9	3461.6	3348.6	3179.0	2920.8	2594.7	2186.8	1790.4	1406.2	1047.2	73.3
37°	3672.4	3640.4	3528.1	3353.2	3100.3	2788.7	2394.6	1963.0	1522.3	1136.6	71.8
38°	3833.6	3768.7	3657.9	3490.7	3242.4	2949.9	2545.0	2095.9	1629.2	1215.2	69.5
39°	3945.1	3877.9	3764.9	3598.4	3355.5	3065.2	2664.2	2209.0	1722.4	1274.1	66.5
40°	4029.1	3964.2	3849.7	3678.6	3438.7	3156.1	2763.5	2309.0	1800.3	1325.2	62.6
41°	4081.1	4020.7	3906.9	3736.6	3496.0	3208.0	2828.4	2374.0	1853.0	1359.6	58.8
42°	4124.6	4062.8	3946.7	3772.5	3531.1	3252.3	2868.1	2415.2	1888.9	1377.2	55.8
43°	4149.1	4087.2	3974.2	3796.2	3552.5	3273.0	2889.5	2434.3	1901.1	1374.9	50.4
44°	4162.8	4098.7	3984.8	3806.9	3561.7	3278.3	2891.1	2430.5	1892.7	1356.5	45.8
45°	4147.5	4084.1	3974.2	3796.2	3545.7	3261.5	2875.8	2409.9	1860.7	1320.6	40.5
46°	4048.2	3999.4	3898.5	3735.1	3495.2	3218.7	2836.8	2370.1	1811.0	1276.3	34.4
47°	3873.3	3834.4	3736.6	3615.2	3398.2	3140.1	2765.0	2294.5	1741.5	1209.9	27.5
48°	3690.8	3633.5	3542.6	3418.1	3234.8	2998.8	2646.6	2183.8	1636.1	1122.8	24.4
49°	3421.1	3387.5	3307.3	3168.3	3016.3	2808.6	2479.4	2041.7	1507.0	1028.1	21.4
50°	3173.7	3150.8	3038.5	2936.1	2775.0	2580.9	2252.5	1854.6	1346.6	910.5	19.1
51°	2980.4	2952.9	2872.0	2744.4	2572.5	2347.2	2037.9	1611.7	1162.5	770.7	15.3
52°	2778.8	2763.5	2691.7	2560.3	2391.5	2167.0	1829.3	1405.4	983.8	651.5	12.2
53°	2613.8	2591.6	2503.8	2386.9	2204.4	1972.2	1603.3	1213.7	833.3	547.7	10.7
54°	2373.2	2364.0	2307.5	2185.3	1987.5	1734.6	1398.6	1022.0	695.1	464.4	9.2
55°	2117.3	2086.8	2029.5	1932.5	1750.7	1514.7	1161.8	847.1	562.2	391.1	6.9
56°	1805.7	1804.1	1701.8	1620.8	1459.7	1209.1	928.0	661.5	456.8	326.2	6.1
57°	1507.8	1459.7	1361.1	1280.9	1107.5	917.3	689.0	495.7	357.5	264.3	4.6
58°	1115.2	1090.0	1064.0	946.4	786.0	650.0	491.9	348.3	264.3	201.6	3.1
59°	756.9	756.2	725.6	636.3	543.8	404.8	307.1	236.8	181.8	148.2	2.3
60°	571.3	557.6	496.5	437.7	342.2	255.9	181.8	139.8	113.0	95.5	1.5
62.5°	200.1	207.8	182.6	151.2	115.3	94.7	72.6	58.8	48.1	39.0	0.0
65°	41.2	45.1	39.0	36.7	29.0	25.2	22.2	19.1	16.0	13.7	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	5.3	4.6	4.6	4.6	3.8	3.8	3.8	3.8	3.1	3.1	0.8
70°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5	0.8
72.5°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	44.3	44.3	44.3	44.3	44.3	44.3
2.5°	46.6	45.1	42.8	42.0	41.2	41.2
5°	45.8	42.8	40.5	38.2	37.4	37.4
7.5°	43.5	39.7	36.7	35.1	34.4	33.6
10°	41.2	35.9	32.8	31.3	31.3	31.3
12.5°	36.7	32.1	29.0	28.3	29.0	29.0
15°	32.8	27.5	26.0	26.0	26.7	27.5
17.5°	28.3	24.4	22.9	23.7	24.4	25.2
20°	25.2	20.6	20.6	21.4	23.7	23.7
22.5°	22.2	18.3	18.3	20.6	22.2	22.9
25°	19.9	16.0	16.8	19.1	21.4	22.2
27.5°	16.8	13.7	15.3	18.3	20.6	21.4
30°	14.5	12.2	14.5	17.6	19.9	21.4
31°	13.7	11.5	14.5	16.8	19.9	21.4
32°	12.2	11.5	13.7	16.8	19.9	20.6
33°	11.5	10.7	13.7	16.8	19.9	20.6
34°	10.7	9.9	13.0	16.8	19.9	20.6
35°	9.2	9.9	13.0	16.0	19.1	20.6
36°	8.4	9.2	13.0	16.0	19.1	20.6
37°	7.6	9.2	12.2	16.0	19.1	20.6
38°	6.9	8.4	12.2	16.0	19.1	20.6
39°	6.1	8.4	11.5	16.0	19.1	20.6
40°	5.3	7.6	11.5	15.3	19.1	20.6
41°	5.3	7.6	11.5	15.3	19.1	20.6
42°	4.6	7.6	11.5	15.3	19.1	20.6
43°	3.8	6.9	11.5	15.3	19.1	20.6
44°	3.1	6.9	10.7	15.3	19.1	20.6
45°	3.1	6.9	10.7	15.3	19.1	20.6
46°	2.3	6.1	10.7	15.3	19.1	20.6
47°	1.5	6.1	10.7	14.5	19.1	20.6
48°	1.5	6.1	10.7	14.5	19.1	20.6
49°	1.5	6.1	9.9	14.5	19.1	20.6
50°	1.5	6.1	9.9	14.5	19.1	20.6
51°	0.8	5.3	9.9	14.5	19.1	20.6
52°	0.8	5.3	9.9	14.5	19.1	21.4
53°	0.8	5.3	9.9	14.5	19.1	20.6
54°	0.8	5.3	9.2	14.5	19.1	20.6
55°	0.8	5.3	9.2	14.5	19.1	20.6
56°	0.8	4.6	9.2	13.7	19.1	20.6
57°	1.5	4.6	9.2	13.7	19.1	19.9
58°	1.5	4.6	9.2	13.7	18.3	19.9
59°	1.5	4.6	9.2	13.7	18.3	19.9
60°	1.5	4.6	8.4	13.7	18.3	19.9
62.5°	1.5	4.6	8.4	13.0	17.6	19.1
65°	1.5	4.6	7.6	12.2	17.6	18.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.5	3.8	7.6	11.5	16.8	17.6
70°	2.3	3.8	6.9	11.5	16.0	16.8
72.5°	2.3	3.8	6.9	9.9	14.5	16.0
75°	2.3	3.8	6.1	9.2	13.7	14.5
77.5°	2.3	3.8	5.3	8.4	12.2	13.0
80°	3.1	3.8	4.6	6.9	10.7	11.5
82.5°	3.1	3.8	3.8	5.3	8.4	9.2
85°	2.3	3.1	3.1	3.8	5.3	6.1
87.5°	2.3	3.1	2.3	1.5	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)