

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: P1344768

Luminaire Tested: P3A13R25W2N902750DE010 E3CA451MB_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344768
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: P3A13R25W2N902750DE010 E3CA451MB_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 5000K CCT AND, 90CRI ,
E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

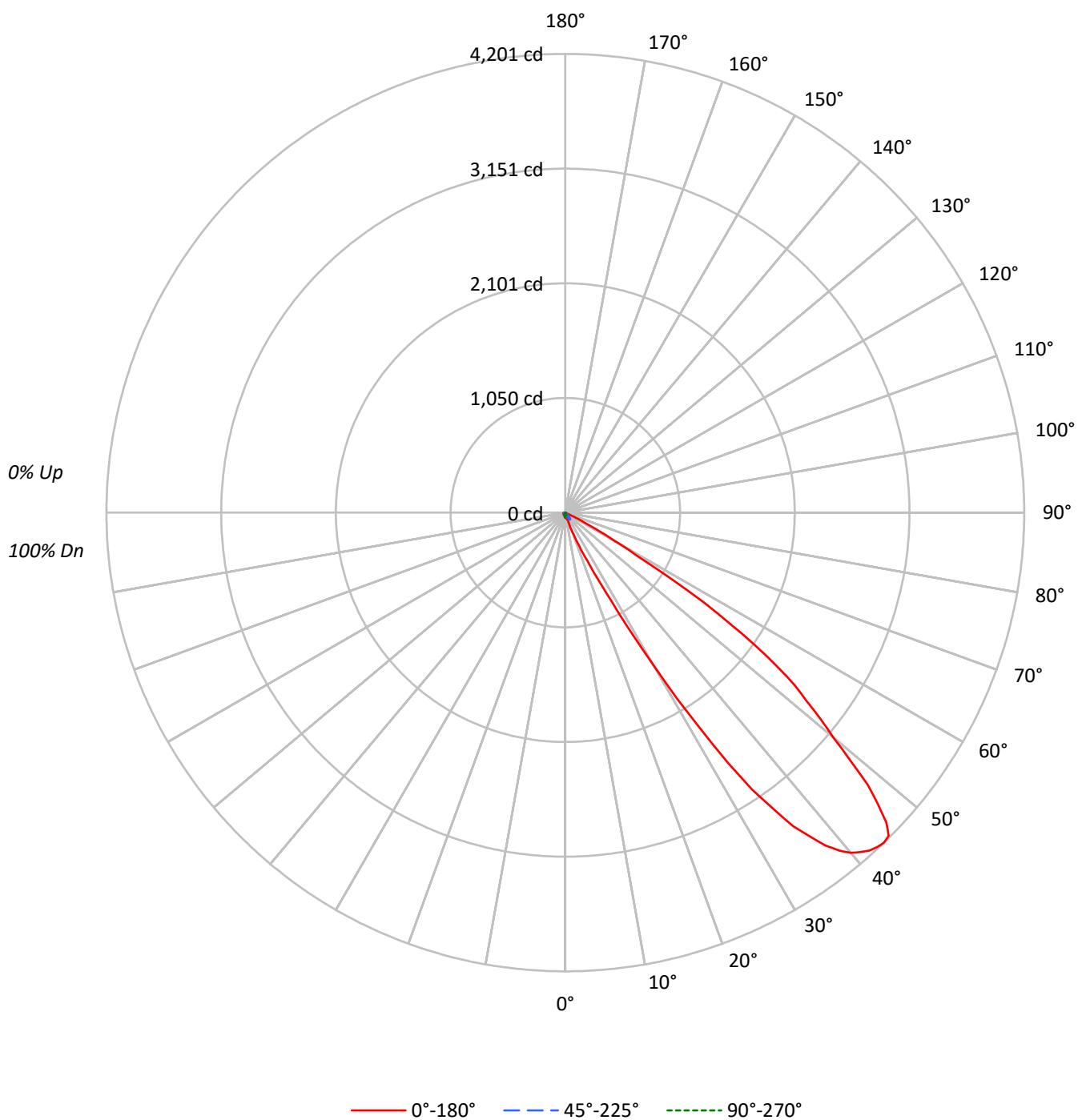
Lumens per Lamp: N/A
Luminaire Lumens: 876.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1344768

CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA451MB_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1344768

CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA451MB_5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9802	9802	9802	9802	9802
5°	11204	10698	9509	8475	8320
10°	11155	10131	8060	7036	7036
15°	12418	8740	6311	5948	6311
20°	43894	8634	4854	5040	5577
25°	126273	11009	3920	4670	5420
30°	402872	16990	3114	4482	5469
35°	882367	20023	2677	4337	5568
40°	1163981	18091	2204	4408	5954
45°	1298057	12683	2140	4776	6450
50°	1092638	6584	2115	4981	7096
55°	816908	2638	2064	5582	7952
60°	252874	658	2017	6096	8771
65°	21585	0	2387	6382	9599
70°	1475	513	2500	7437	10899
75°	1271	678	3304	7879	12370
80°	1010	1010	4925	8713	14648
85°	2013	2013	7799	9812	15599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1298057 cd/sqm

TEST NUMBER: P1344768

CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA451MB_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.5
10°-20°	10.3	1.2
20°-30°	48.5	5.5
30°-40°	233.3	26.6
40°-50°	365.7	41.8
50°-60°	187.5	21.4
60°-70°	17.7	2.0
70°-80°	6.0	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°	62.8	7.2
0°-40°	296.1	33.8
0°-60°	849.4	97.0
0°-90°	876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	876.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	51	49	43	38	38	5
15°	55	38	28	26	28	23
25°	522	46	16	19	22	324
35°	3296	75	10	16	21	2001
45°	4186	41	7	15	21	3063
55°	2137	7	5	15	21	1779
65°	42	0	5	12	18	130
75°	2	1	4	9	15	2
85°	1	1	3	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1344768

CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
2.5°	48.6	48.6	48.6	48.6	48.6	48.6	47.8	47.8	48.6	47.8	47.8
5°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.1	50.1	50.1	48.6
7.5°	51.6	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.1	50.1	47.8
10°	50.1	50.1	50.1	50.1	49.3	49.3	49.3	48.6	48.6	48.6	45.5
12.5°	50.1	50.1	50.1	50.1	49.3	49.3	48.6	48.6	47.8	47.0	41.6
15°	54.7	54.7	54.7	54.0	53.2	52.4	51.6	50.9	50.1	48.6	38.5
17.5°	80.2	77.9	77.1	74.0	70.1	66.3	63.2	60.1	57.0	54.7	37.0
20°	188.1	187.3	183.5	174.2	164.2	152.6	141.1	128.0	109.5	97.1	37.0
22.5°	326.1	321.4	314.5	307.6	289.8	269.0	247.4	222.8	198.9	173.4	39.3
25°	521.9	532.7	509.5	491.0	460.2	422.4	381.6	347.7	304.5	264.4	45.5
27.5°	907.3	914.2	868.8	808.6	736.9	657.5	580.5	522.6	450.2	383.9	57.0
30°	1591.1	1598.0	1521.7	1393.7	1245.7	1115.4	938.9	784.0	641.4	531.1	67.1
31°	1985.7	1931.8	1843.1	1719.0	1531.7	1335.1	1123.1	935.8	755.4	610.5	70.1
32°	2328.8	2324.1	2220.8	2032.8	1844.7	1601.8	1339.0	1094.6	873.4	690.7	72.5
33°	2733.5	2702.6	2556.9	2379.6	2130.7	1886.3	1547.1	1268.1	994.4	780.1	74.0
34°	3058.0	2974.7	2914.6	2711.9	2449.0	2137.6	1774.5	1451.5	1145.5	866.4	74.8
35°	3296.2	3278.5	3161.3	2972.4	2704.9	2386.6	2019.7	1641.9	1271.9	966.7	74.8
36°	3548.3	3493.5	3379.4	3208.3	2947.8	2618.6	2207.0	1806.9	1419.2	1056.8	74.0
37°	3706.3	3673.9	3560.6	3384.1	3128.9	2814.4	2416.6	1981.1	1536.3	1147.0	72.5
38°	3868.9	3803.4	3691.6	3522.8	3272.3	2977.1	2568.5	2115.2	1644.2	1226.4	70.1
39°	3981.5	3913.7	3799.6	3631.5	3386.4	3093.5	2688.8	2229.3	1738.3	1285.8	67.1
40°	4066.3	4000.8	3885.1	3712.5	3470.4	3185.2	2789.0	2330.3	1816.9	1337.4	63.2
41°	4118.7	4057.8	3942.9	3771.0	3528.2	3237.6	2854.5	2395.8	1870.1	1372.1	59.4
42°	4162.6	4100.2	3983.0	3807.3	3563.7	3282.3	2894.6	2437.5	1906.3	1389.9	56.3
43°	4187.3	4124.9	4010.8	3831.2	3585.3	3303.1	2916.2	2456.7	1918.7	1387.5	50.9
44°	4201.2	4136.4	4021.6	3842.0	3594.5	3308.5	2917.7	2452.9	1910.2	1369.0	46.3
45°	4185.8	4121.8	4010.8	3831.2	3578.3	3291.6	2902.3	2432.1	1877.8	1332.8	40.9
46°	4085.6	4036.2	3934.5	3769.5	3527.5	3248.4	2863.0	2392.0	1827.7	1288.1	34.7
47°	3909.0	3869.7	3771.0	3648.5	3429.6	3169.0	2790.5	2315.7	1757.6	1221.0	27.8
48°	3724.8	3667.0	3575.2	3449.6	3264.6	3026.4	2671.0	2203.9	1651.2	1133.2	24.7
49°	3452.7	3418.8	3337.8	3197.5	3044.1	2834.4	2502.2	2060.5	1520.9	1037.6	21.6
50°	3202.9	3179.8	3066.5	2963.2	2800.5	2604.7	2273.3	1871.6	1359.0	918.9	19.3
51°	3007.9	2980.1	2898.4	2769.7	2596.3	2368.9	2056.7	1626.5	1173.2	777.8	15.4
52°	2804.4	2789.0	2716.5	2583.9	2413.6	2186.9	1846.2	1418.4	992.9	657.5	12.3
53°	2637.9	2615.5	2526.9	2408.9	2224.7	1990.4	1618.0	1224.9	841.0	552.7	10.8
54°	2395.1	2385.8	2328.8	2205.4	2005.8	1750.6	1411.4	1031.4	701.5	468.7	9.3
55°	2136.8	2106.0	2048.2	1950.3	1766.8	1528.6	1172.5	854.9	567.4	394.7	6.9
56°	1822.3	1820.8	1717.5	1635.8	1473.1	1220.3	936.6	667.6	461.0	329.2	6.2
57°	1521.7	1473.1	1373.7	1292.7	1117.7	925.8	695.3	500.3	360.8	266.7	4.6
58°	1125.5	1100.0	1073.8	955.1	793.2	656.0	496.4	351.5	266.7	203.5	3.1
59°	763.9	763.2	732.3	642.1	548.9	408.6	309.9	239.0	183.5	149.5	2.3
60°	576.6	562.7	501.1	441.7	345.3	258.2	183.5	141.1	114.1	96.4	1.5
62.5°	202.0	209.7	184.2	152.6	116.4	95.6	73.2	59.4	48.6	39.3	0.0
65°	41.6	45.5	39.3	37.0	29.3	25.4	22.4	19.3	16.2	13.9	0.0



TEST NUMBER: P1344768

CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	5.4	4.6	4.6	4.6	3.9	3.9	3.9	3.9	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

TEST NUMBER: P1344768

CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	44.7	44.7	44.7	44.7	44.7	44.7
2.5°	47.0	45.5	43.2	42.4	41.6	41.6
5°	46.3	43.2	40.9	38.5	37.8	37.8
7.5°	43.9	40.1	37.0	35.5	34.7	33.9
10°	41.6	36.2	33.1	31.6	31.6	31.6
12.5°	37.0	32.4	29.3	28.5	29.3	29.3
15°	33.1	27.8	26.2	26.2	27.0	27.8
17.5°	28.5	24.7	23.1	23.9	24.7	25.4
20°	25.4	20.8	20.8	21.6	23.9	23.9
22.5°	22.4	18.5	18.5	20.8	22.4	23.1
25°	20.0	16.2	17.0	19.3	21.6	22.4
27.5°	17.0	13.9	15.4	18.5	20.8	21.6
30°	14.6	12.3	14.6	17.7	20.0	21.6
31°	13.9	11.6	14.6	17.0	20.0	21.6
32°	12.3	11.6	13.9	17.0	20.0	20.8
33°	11.6	10.8	13.9	17.0	20.0	20.8
34°	10.8	10.0	13.1	17.0	20.0	20.8
35°	9.3	10.0	13.1	16.2	19.3	20.8
36°	8.5	9.3	13.1	16.2	19.3	20.8
37°	7.7	9.3	12.3	16.2	19.3	20.8
38°	6.9	8.5	12.3	16.2	19.3	20.8
39°	6.2	8.5	11.6	16.2	19.3	20.8
40°	5.4	7.7	11.6	15.4	19.3	20.8
41°	5.4	7.7	11.6	15.4	19.3	20.8
42°	4.6	7.7	11.6	15.4	19.3	20.8
43°	3.9	6.9	11.6	15.4	19.3	20.8
44°	3.1	6.9	10.8	15.4	19.3	20.8
45°	3.1	6.9	10.8	15.4	19.3	20.8
46°	2.3	6.2	10.8	15.4	19.3	20.8
47°	1.5	6.2	10.8	14.6	19.3	20.8
48°	1.5	6.2	10.8	14.6	19.3	20.8
49°	1.5	6.2	10.0	14.6	19.3	20.8
50°	1.5	6.2	10.0	14.6	19.3	20.8
51°	0.8	5.4	10.0	14.6	19.3	20.8
52°	0.8	5.4	10.0	14.6	19.3	21.6
53°	0.8	5.4	10.0	14.6	19.3	20.8
54°	0.8	5.4	9.3	14.6	19.3	20.8
55°	0.8	5.4	9.3	14.6	19.3	20.8
56°	0.8	4.6	9.3	13.9	19.3	20.8
57°	1.5	4.6	9.3	13.9	19.3	20.0
58°	1.5	4.6	9.3	13.9	18.5	20.0
59°	1.5	4.6	9.3	13.9	18.5	20.0
60°	1.5	4.6	8.5	13.9	18.5	20.0
62.5°	1.5	4.6	8.5	13.1	17.7	19.3
65°	1.5	4.6	7.7	12.3	17.7	18.5



TEST NUMBER: P1344768

CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.5	3.9	7.7	11.6	17.0	17.7
70°	2.3	3.9	6.9	11.6	16.2	17.0
72.5°	2.3	3.9	6.9	10.0	14.6	16.2
75°	2.3	3.9	6.2	9.3	13.9	14.6
77.5°	2.3	3.9	5.4	8.5	12.3	13.1
80°	3.1	3.9	4.6	6.9	10.8	11.6
82.5°	3.1	3.9	3.9	5.4	8.5	9.3
85°	2.3	3.1	3.1	3.9	5.4	6.2
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)