

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: P1345788

Luminaire Tested: P3A13R35W2N902750DE010 E3CA451MB_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R35W2N902750DE010 E3CA451MB_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 5000K CCT AND, 90CRI ,
E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

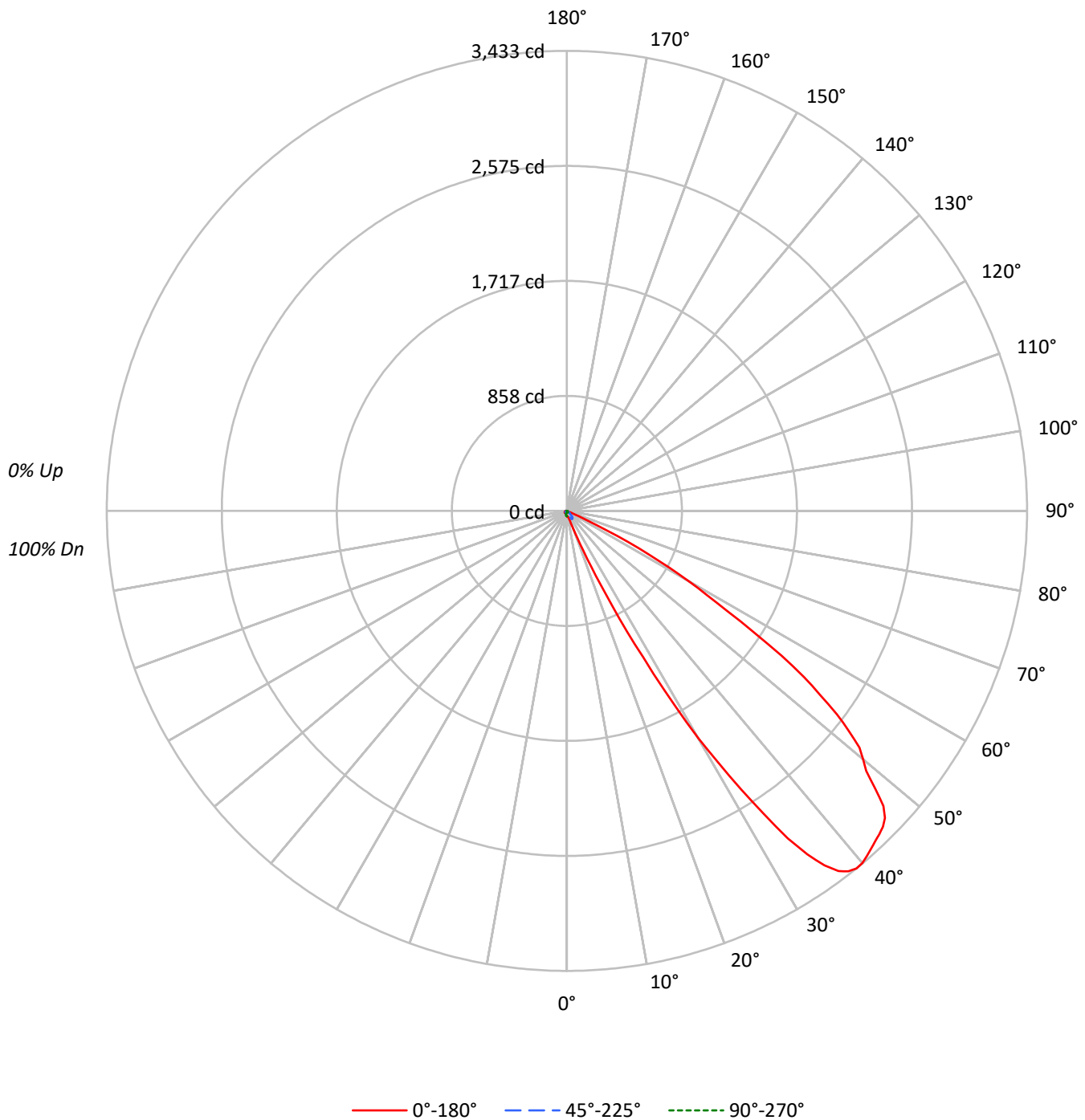
Lumens per Lamp: N/A
Luminaire Lumens: 855.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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	107	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	61	52	45	58	51	45	56	50	44	55	49	44	42			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35			
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29			
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24			
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20			
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8640	8640	8640	8640	8640
5°	9355	9179	8497	7638	7484
10°	9797	8929	7571	6524	6524
15°	14007	8763	6129	5607	5789
20°	35120	9357	4854	4854	5414
25°	163026	11952	3726	4476	5033
30°	495595	16230	2937	4102	5089
35°	837609	18792	2490	3935	4952
40°	981840	18549	1975	3979	5296
45°	1033999	13180	1675	4311	5737
50°	984224	7914	1569	4469	6311
55°	824707	3250	1759	5008	7378
60°	461717	658	2017	5745	8113
65°	79697	415	2024	6382	9236
70°	1475	513	2500	6924	10386
75°	1271	678	3304	7879	11777
80°	1010	1010	3915	8713	13638
85°	0	2013	7799	9812	15599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1041322 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.4
10°-20°	10.1	1.2
20°-30°	52.5	6.1
30°-40°	226.6	26.5
40°-50°	323.2	37.8
50°-60°	200.2	23.4
60°-70°	30.5	3.6
70°-80°	5.7	0.7
80°-90°	2.9	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°	66.1	7.7
0°-40°	292.7	34.2
0°-60°	816.0	95.4
0°-90°	855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	855.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	42	42	39	35	34	4
15°	62	39	27	25	26	22
25°	674	49	15	18	21	403
35°	3129	70	9	15	18	1879
45°	3334	42	5	14	18	2519
55°	2157	8	5	13	19	1837
65°	154	1	4	12	18	314
75°	2	1	4	9	14	2
85°	0	1	3	4	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	39.4	38.6
5°	42.5	42.5	41.7	41.7	41.7	41.7	41.7	41.7	40.1	38.6	36.3
7.5°	43.2	43.2	42.5	42.5	42.5	42.5	41.7	40.9	39.4	36.3	34.0
10°	44.0	44.0	44.0	44.0	43.2	42.5	41.7	40.1	37.8	34.0	31.6
12.5°	49.4	49.4	48.6	47.1	45.5	44.0	42.5	39.4	34.7	30.9	28.6
15°	61.7	61.0	59.4	57.1	54.0	50.2	47.1	38.6	31.6	27.0	25.5
17.5°	86.4	84.9	82.6	74.9	67.9	61.0	54.8	38.6	28.6	23.9	22.4
20°	150.5	151.3	135.1	116.5	101.1	84.1	68.7	40.1	25.5	20.8	20.1
22.5°	314.1	301.8	263.2	218.4	166.7	128.9	97.2	44.0	22.4	17.8	17.8
25°	673.8	626.7	533.3	402.9	284.0	201.4	141.2	49.4	20.1	15.4	16.2
27.5°	1230.3	1187.8	1000.3	753.3	500.1	304.1	191.4	56.3	17.8	13.1	14.7
30°	1957.3	1840.0	1595.4	1234.9	835.9	465.4	257.0	64.1	14.7	11.6	13.9
31°	2184.3	2130.2	1832.3	1428.6	979.4	552.6	284.8	66.4	13.9	11.6	13.1
32°	2453.6	2357.9	2090.9	1640.9	1125.3	630.6	318.0	68.7	13.1	10.0	13.1
33°	2694.4	2601.8	2276.9	1827.7	1272.7	719.3	353.5	69.5	11.6	10.0	12.3
34°	2947.6	2821.0	2499.2	2022.9	1424.0	815.0	385.9	70.2	10.8	9.3	12.3
35°	3129.0	3002.4	2690.6	2177.3	1554.4	899.9	423.0	70.2	10.0	9.3	11.6
36°	3269.4	3158.3	2855.7	2336.3	1684.1	976.4	452.3	70.2	8.5	8.5	11.6
37°	3365.9	3260.2	2966.9	2472.9	1782.9	1044.3	478.5	70.2	7.7	8.5	11.6
38°	3413.0	3325.0	3074.2	2572.5	1878.6	1097.5	499.4	68.7	6.9	7.7	10.8
39°	3433.1	3361.3	3139.8	2656.6	1950.4	1143.8	514.8	67.1	6.2	7.7	10.8
40°	3430.0	3367.5	3176.8	2714.5	2008.3	1175.5	523.3	64.8	5.4	6.9	10.8
41°	3412.2	3358.2	3196.1	2763.9	2043.0	1197.1	525.6	62.5	4.6	6.9	10.0
42°	3392.2	3342.8	3202.3	2790.1	2065.4	1204.0	519.4	59.4	4.6	6.2	10.0
43°	3371.3	3325.8	3202.3	2798.6	2070.8	1199.4	509.4	54.0	3.9	6.2	10.0
44°	3354.3	3311.1	3192.2	2796.3	2059.2	1181.7	490.9	47.9	3.1	6.2	10.0
45°	3334.3	3291.8	3179.1	2781.6	2036.8	1151.6	467.7	42.5	2.3	5.4	10.0
46°	3298.8	3265.6	3156.0	2751.5	2001.3	1109.9	438.4	38.6	1.5	5.4	9.3
47°	3230.1	3201.5	3111.2	2706.8	1954.2	1060.5	408.3	34.7	1.5	5.4	9.3
48°	3091.9	3091.1	3021.7	2623.4	1879.4	998.7	376.6	30.9	1.5	5.4	9.3
49°	2958.4	2944.5	2858.1	2476.8	1772.1	924.6	343.5	27.8	0.8	5.4	9.3
50°	2885.1	2855.0	2712.9	2303.9	1634.7	822.0	308.0	23.2	0.8	4.6	9.3
51°	2808.7	2765.4	2597.9	2148.0	1471.1	723.2	269.4	18.5	0.8	4.6	8.5
52°	2670.5	2629.6	2442.0	1999.0	1312.1	622.1	232.3	15.4	0.8	4.6	9.3
53°	2521.5	2462.9	2259.1	1835.4	1172.4	532.6	194.5	13.1	0.8	4.6	8.5
54°	2334.0	2307.7	2073.9	1634.7	1008.8	446.1	159.8	10.8	0.8	4.6	8.5
55°	2157.2	2118.6	1875.5	1429.4	860.6	365.8	133.5	8.5	0.8	4.6	8.5
56°	1931.9	1874.0	1646.3	1241.1	710.1	294.8	112.7	6.9	0.8	4.6	8.5
57°	1663.3	1601.5	1421.7	1031.9	557.3	224.6	94.2	5.4	0.8	4.6	8.5
58°	1407.0	1353.8	1160.8	796.5	419.9	155.9	78.0	3.9	0.8	3.9	8.5
59°	1215.6	1157.0	965.5	612.8	291.7	115.0	58.7	3.1	0.8	4.6	8.5
60°	1052.8	977.1	777.2	474.7	208.4	82.6	43.2	1.5	1.5	4.6	8.5
62.5°	606.7	535.6	371.2	193.0	85.7	42.5	20.8	0.8	1.5	4.6	8.5
65°	153.6	136.6	88.8	41.7	23.9	14.7	7.7	0.8	1.5	3.9	7.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.4	5.4	5.4	4.6	3.9	3.1	1.5	0.8	1.5	3.9	7.7
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.8	1.5	3.9	6.9
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.9	6.2
75°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.9	6.2
77.5°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	5.4
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	4.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.3	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	2.3
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):

	135°	157.5°	180°
0°	39.4	39.4	39.4
2.5°	37.0	37.0	37.0
5°	34.7	34.7	34.0
7.5°	32.4	31.6	31.6
10°	29.3	29.3	29.3
12.5°	27.0	27.0	27.0
15°	24.7	25.5	25.5
17.5°	22.4	23.9	23.9
20°	20.8	22.4	23.2
22.5°	19.3	20.8	21.6
25°	18.5	20.1	20.8
27.5°	17.0	19.3	20.8
30°	16.2	18.5	20.1
31°	16.2	18.5	19.3
32°	15.4	18.5	19.3
33°	15.4	18.5	19.3
34°	15.4	17.8	19.3
35°	14.7	17.8	18.5
36°	14.7	17.8	18.5
37°	14.7	17.8	19.3
38°	14.7	17.8	18.5
39°	13.9	17.8	18.5
40°	13.9	17.8	18.5
41°	13.9	17.8	18.5
42°	13.9	17.8	18.5
43°	13.9	17.8	18.5
44°	13.9	17.0	18.5
45°	13.9	17.0	18.5
46°	13.9	17.8	18.5
47°	13.9	17.8	19.3
48°	13.9	17.0	18.5
49°	13.1	17.0	18.5
50°	13.1	17.0	18.5
51°	13.1	17.8	19.3
52°	13.1	17.8	19.3
53°	13.1	17.8	19.3
54°	13.1	17.8	18.5
55°	13.1	17.8	19.3
56°	13.1	17.8	18.5
57°	13.1	17.8	18.5
58°	13.1	17.0	18.5
59°	13.1	17.0	18.5
60°	13.1	17.0	18.5
62.5°	12.3	17.0	18.5
65°	12.3	16.2	17.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.6	16.2	17.0
70°	10.8	15.4	16.2
72.5°	10.0	14.7	15.4
75°	9.3	13.1	13.9
77.5°	7.7	11.6	13.1
80°	6.9	10.0	10.8
82.5°	5.4	8.5	9.3
85°	3.9	6.2	6.2
87.5°	1.5	3.1	3.1
90°	0.0	0.0	0.0

(END OF REPORT)