

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: P1345884

Luminaire Tested: P3A13R35W2N902765DE010 E3CA451MMS_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345884
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: P3A13R35W2N902765DE010 E3CA451MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

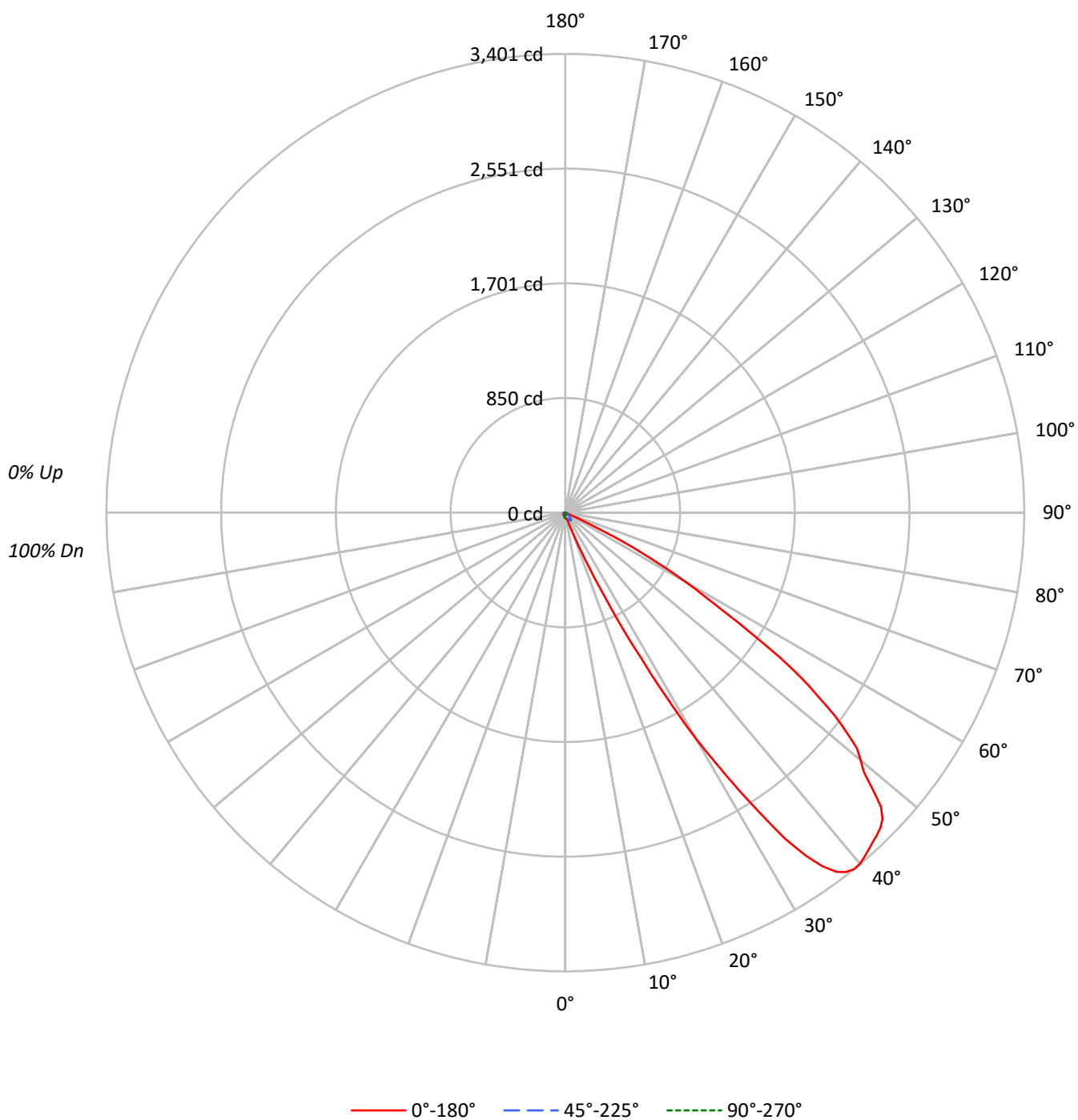
Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	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°	8552	8552	8552	8552	8552
5°	9267	9091	8409	7572	7396
10°	9708	8862	7481	6480	6480
15°	13893	8672	6084	5562	5721
20°	34793	9287	4807	4807	5344
25°	161501	11831	3702	4452	4984
30°	490962	16078	2912	4077	5039
35°	829766	18631	2463	3882	4926
40°	972651	18377	1975	3950	5267
45°	1024323	13056	1675	4280	5706
50°	975013	7812	1569	4435	6277
55°	817022	3211	1759	4970	7302
60°	457376	658	2017	5701	8070
65°	78971	415	1972	6330	9132
70°	1475	513	2436	6860	10322
75°	1271	678	3219	7795	11692
80°	1010	1010	3915	8713	13512
85°	0	2013	7799	9561	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1031568 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.4
10°-20°	10.0	1.2
20°-30°	52.0	6.1
30°-40°	224.4	26.5
40°-50°	320.2	37.8
50°-60°	198.3	23.4
60°-70°	30.2	3.6
70°-80°	5.6	0.7
80°-90°	2.8	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°	65.5	7.7
0°-40°	289.9	34.2
0°-60°	808.4	95.4
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	42	41	38	34	34	4
15°	61	38	27	24	25	22
25°	668	49	15	18	21	399
35°	3100	70	9	14	18	1861
45°	3303	42	5	14	18	2495
55°	2137	8	5	13	19	1820
65°	152	1	4	12	18	311
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°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
2.5°	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	39.0	38.2
5°	42.1	42.1	41.3	41.3	41.3	41.3	41.3	41.3	39.8	38.2	35.9
7.5°	42.8	42.8	42.1	42.1	42.1	42.1	41.3	40.5	39.0	35.9	33.6
10°	43.6	43.6	43.6	43.6	42.8	42.1	41.3	39.8	37.5	33.6	31.3
12.5°	48.9	48.9	48.2	46.6	45.1	43.6	42.1	39.0	34.4	30.6	28.3
15°	61.2	60.4	58.9	56.6	53.5	49.7	46.6	38.2	31.3	26.8	25.2
17.5°	85.6	84.1	81.8	74.2	67.3	60.4	54.3	38.2	28.3	23.7	22.2
20°	149.1	149.9	133.8	115.5	100.2	83.3	68.0	39.8	25.2	20.6	19.9
22.5°	311.2	299.0	260.7	216.4	165.2	127.7	96.3	43.6	22.2	17.6	17.6
25°	667.5	620.9	528.3	399.1	281.4	199.6	139.9	48.9	19.9	15.3	16.1
27.5°	1218.8	1176.7	990.9	746.2	495.5	301.3	189.6	55.8	17.6	13.0	14.5
30°	1939.0	1822.8	1580.4	1223.4	828.1	461.1	254.6	63.5	14.5	11.5	13.8
31°	2163.8	2110.3	1815.2	1415.3	970.3	547.5	282.1	65.8	13.8	11.5	13.0
32°	2430.7	2335.8	2071.3	1625.5	1114.8	624.7	315.0	68.0	13.0	9.9	13.0
33°	2669.2	2577.5	2255.6	1810.6	1260.8	712.6	350.2	68.8	11.5	9.9	12.2
34°	2920.0	2794.6	2475.8	2004.0	1410.7	807.4	382.3	69.6	10.7	9.2	12.2
35°	3099.7	2974.3	2665.4	2156.9	1539.9	891.5	419.0	69.6	9.9	9.2	11.5
36°	3238.8	3128.7	2829.0	2314.4	1668.4	967.2	448.1	69.6	8.4	8.4	11.5
37°	3334.4	3229.7	2939.1	2449.8	1766.2	1034.5	474.1	69.6	7.6	8.4	11.5
38°	3381.1	3293.9	3045.4	2548.4	1861.0	1087.3	494.7	68.0	6.9	7.6	10.7
39°	3400.9	3329.8	3110.4	2631.7	1932.1	1133.1	510.0	66.5	6.1	7.6	10.7
40°	3397.9	3335.9	3147.1	2689.1	1989.5	1164.5	518.4	64.2	5.4	6.9	10.7
41°	3380.3	3326.8	3166.2	2738.0	2023.9	1185.9	520.7	61.9	4.6	6.9	9.9
42°	3360.4	3311.5	3172.3	2764.0	2046.1	1192.8	514.6	58.9	4.6	6.1	9.9
43°	3339.8	3294.7	3172.3	2772.4	2051.4	1188.2	504.6	53.5	3.8	6.1	9.9
44°	3322.9	3280.1	3162.4	2770.1	2039.9	1170.6	486.3	47.4	3.1	6.1	9.9
45°	3303.1	3261.0	3149.4	2755.6	2017.8	1140.8	463.3	42.1	2.3	5.4	9.9
46°	3267.9	3235.0	3126.4	2725.8	1982.6	1099.5	434.3	38.2	1.5	5.4	9.2
47°	3199.8	3171.6	3082.1	2681.4	1936.0	1050.6	404.5	34.4	1.5	5.4	9.2
48°	3063.0	3062.2	2993.4	2598.9	1861.8	989.4	373.1	30.6	1.5	5.4	9.2
49°	2930.7	2916.9	2831.3	2453.6	1755.5	916.0	340.2	27.5	0.8	5.4	9.2
50°	2858.1	2828.3	2687.6	2282.3	1619.4	814.3	305.1	22.9	0.8	4.6	9.2
51°	2782.4	2739.6	2573.6	2127.9	1457.3	716.4	266.8	18.4	0.8	4.6	8.4
52°	2645.5	2605.0	2419.2	1980.3	1299.8	616.3	230.1	15.3	0.8	4.6	9.2
53°	2497.9	2439.8	2238.0	1818.2	1161.4	527.6	192.7	13.0	0.8	4.6	8.4
54°	2312.1	2286.2	2054.5	1619.4	999.3	441.9	158.3	10.7	0.8	4.6	8.4
55°	2137.1	2098.8	1858.0	1416.0	852.5	362.4	132.3	8.4	0.8	4.6	8.4
56°	1913.8	1856.4	1630.9	1229.5	703.4	292.1	111.6	6.9	0.8	4.6	8.4
57°	1647.7	1586.5	1408.4	1022.3	552.0	222.5	93.3	5.4	0.8	4.6	8.4
58°	1393.9	1341.1	1150.0	789.1	415.9	154.4	77.2	3.8	0.8	3.8	8.4
59°	1204.2	1146.1	956.5	607.1	289.0	113.9	58.1	3.1	0.8	4.6	8.4
60°	1042.9	968.0	770.0	470.2	206.4	81.8	42.8	1.5	1.5	4.6	8.4
62.5°	601.0	530.6	367.8	191.1	84.9	42.1	20.6	0.8	1.5	4.6	8.4
65°	152.2	135.3	87.9	41.3	23.7	14.5	7.6	0.8	1.5	3.8	7.6



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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	3.8	3.1	1.5	0.8	1.5	3.8	7.6
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.8	1.5	3.8	6.9
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.8	6.1
75°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.8	6.1
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	3.8
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°	39.0	39.0	39.0
2.5°	36.7	36.7	36.7
5°	34.4	34.4	33.6
7.5°	32.1	31.3	31.3
10°	29.1	29.1	29.1
12.5°	26.8	26.8	26.8
15°	24.5	25.2	25.2
17.5°	22.2	23.7	23.7
20°	20.6	22.2	22.9
22.5°	19.1	20.6	21.4
25°	18.4	19.9	20.6
27.5°	16.8	19.1	20.6
30°	16.1	18.4	19.9
31°	16.1	18.4	19.1
32°	15.3	18.4	19.1
33°	15.3	18.4	19.1
34°	15.3	17.6	19.1
35°	14.5	17.6	18.4
36°	14.5	17.6	18.4
37°	14.5	17.6	19.1
38°	14.5	17.6	18.4
39°	13.8	17.6	18.4
40°	13.8	17.6	18.4
41°	13.8	17.6	18.4
42°	13.8	17.6	18.4
43°	13.8	17.6	18.4
44°	13.8	16.8	18.4
45°	13.8	16.8	18.4
46°	13.8	17.6	18.4
47°	13.8	17.6	19.1
48°	13.8	16.8	18.4
49°	13.0	16.8	18.4
50°	13.0	16.8	18.4
51°	13.0	17.6	19.1
52°	13.0	17.6	19.1
53°	13.0	17.6	19.1
54°	13.0	17.6	18.4
55°	13.0	17.6	19.1
56°	13.0	17.6	18.4
57°	13.0	17.6	18.4
58°	13.0	16.8	18.4
59°	13.0	16.8	18.4
60°	13.0	16.8	18.4
62.5°	12.2	16.8	18.4
65°	12.2	16.1	17.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.5	16.1	16.8
70°	10.7	15.3	16.1
72.5°	9.9	14.5	15.3
75°	9.2	13.0	13.8
77.5°	7.6	11.5	13.0
80°	6.9	9.9	10.7
82.5°	5.4	8.4	9.2
85°	3.8	6.1	6.1
87.5°	1.5	3.1	3.1
90°	0.0	0.0	0.0

(END OF REPORT)