

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: P1345886

Luminaire Tested: P3A13R35W2N902765DE010 E3CA451MMS_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345886
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_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

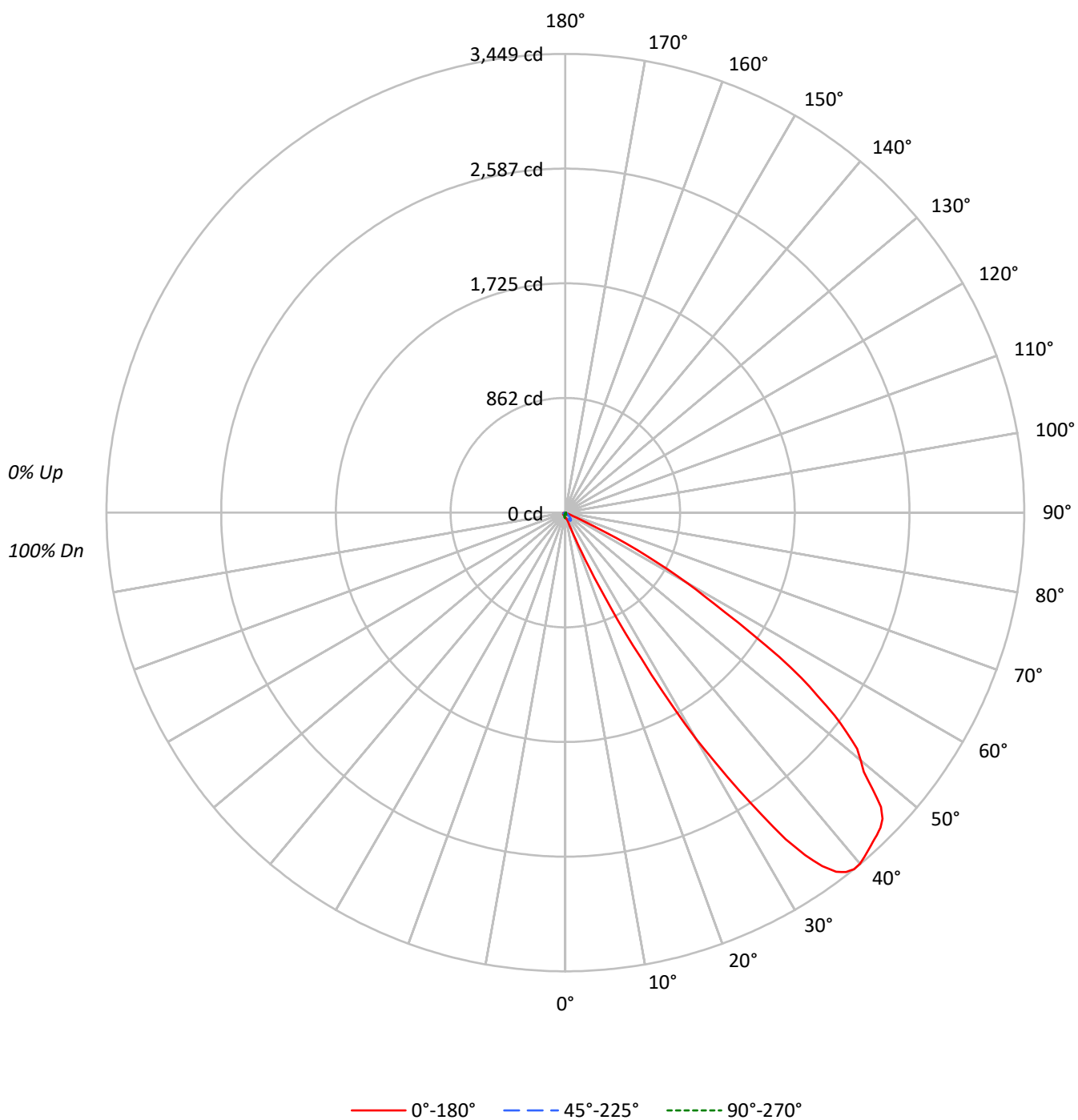
Lumens per Lamp: N/A
Luminaire Lumens: 859.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	8662	8662	8662	8662	8662
5°	9377	9223	8541	7682	7506
10°	9842	8973	7593	6569	6569
15°	14075	8808	6152	5630	5812
20°	35283	9404	4877	4877	5437
25°	163800	12001	3750	4500	5057
30°	497925	16306	2937	4127	5115
35°	841517	18899	2490	3935	4979
40°	986420	18635	2004	4008	5324
45°	1038837	13211	1675	4342	5768
50°	988829	7949	1603	4503	6345
55°	828568	3250	1797	5046	7417
60°	463866	702	2061	5789	8157
65°	80060	415	2024	6434	9236
70°	1475	513	2500	6988	10450
75°	1356	678	3304	7879	11861
80°	1010	1010	3915	8840	13764
85°	0	2013	7799	9812	15599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1046183 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°	52.7	6.1
30°-40°	227.6	26.5
40°-50°	324.7	37.8
50°-60°	201.1	23.4
60°-70°	30.6	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°	66.4	7.7
0°-40°	294.0	34.2
0°-60°	819.8	95.4
0°-90°	859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	43	42	39	35	34	4
15°	62	39	27	25	26	22
25°	677	50	16	19	21	405
35°	3144	71	9	15	19	1887
45°	3350	43	5	14	19	2531
55°	2167	8	5	13	19	1846
65°	154	1	4	12	18	315
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°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	39.5	38.8
5°	42.6	42.6	41.9	41.9	41.9	41.9	41.9	41.9	40.3	38.8	36.4
7.5°	43.4	43.4	42.6	42.6	42.6	42.6	41.9	41.1	39.5	36.4	34.1
10°	44.2	44.2	44.2	44.2	43.4	42.6	41.9	40.3	38.0	34.1	31.8
12.5°	49.6	49.6	48.9	47.3	45.8	44.2	42.6	39.5	34.9	31.0	28.7
15°	62.0	61.3	59.7	57.4	54.3	50.4	47.3	38.8	31.8	27.1	25.6
17.5°	86.8	85.3	83.0	75.2	68.2	61.3	55.1	38.8	28.7	24.0	22.5
20°	151.2	152.0	135.7	117.1	101.6	84.5	69.0	40.3	25.6	20.9	20.2
22.5°	315.6	303.2	264.4	219.4	167.5	129.5	97.7	44.2	22.5	17.8	17.8
25°	677.0	629.7	535.8	404.8	285.4	202.4	141.9	49.6	20.2	15.5	16.3
27.5°	1236.0	1193.4	1005.0	756.8	502.5	305.5	192.3	56.6	17.8	13.2	14.7
30°	1966.5	1848.6	1602.8	1240.7	839.8	467.6	258.2	64.4	14.7	11.6	14.0
31°	2194.5	2140.2	1840.9	1435.3	984.0	555.2	286.1	66.7	14.0	11.6	13.2
32°	2465.1	2368.9	2100.6	1648.6	1130.6	633.5	319.5	69.0	13.2	10.1	13.2
33°	2707.0	2614.0	2287.5	1836.2	1278.7	722.7	355.1	69.8	11.6	10.1	12.4
34°	2961.4	2834.2	2510.8	2032.4	1430.7	818.9	387.7	70.6	10.9	9.3	12.4
35°	3143.6	3016.4	2703.2	2187.5	1561.7	904.2	424.9	70.6	10.1	9.3	11.6
36°	3284.7	3173.1	2869.1	2347.2	1692.0	980.9	454.4	70.6	8.5	8.5	11.6
37°	3381.7	3275.4	2980.8	2484.5	1791.2	1049.2	480.8	70.6	7.8	8.5	11.6
38°	3429.0	3340.6	3088.5	2584.5	1887.4	1102.7	501.7	69.0	7.0	7.8	10.9
39°	3449.1	3377.0	3154.5	2669.0	1959.5	1149.2	517.2	67.5	6.2	7.8	10.9
40°	3446.0	3383.2	3191.7	2727.2	2017.7	1181.0	525.7	65.1	5.4	7.0	10.9
41°	3428.2	3373.9	3211.1	2776.8	2052.6	1202.7	528.1	62.8	4.7	7.0	10.1
42°	3408.0	3358.4	3217.3	2803.2	2075.1	1209.7	521.9	59.7	4.7	6.2	10.1
43°	3387.1	3341.3	3217.3	2811.7	2080.5	1205.0	511.8	54.3	3.9	6.2	10.1
44°	3370.0	3326.6	3207.2	2809.4	2068.9	1187.2	493.2	48.1	3.1	6.2	10.1
45°	3349.9	3307.2	3194.0	2794.7	2046.4	1156.9	469.9	42.6	2.3	5.4	10.1
46°	3314.2	3280.9	3170.7	2764.4	2010.7	1115.1	440.4	38.8	1.6	5.4	9.3
47°	3245.2	3216.5	3125.8	2719.4	1963.4	1065.4	410.2	34.9	1.6	5.4	9.3
48°	3106.4	3105.6	3035.8	2635.7	1888.2	1003.4	378.4	31.0	1.6	5.4	9.3
49°	2972.2	2958.3	2871.4	2488.4	1780.4	929.0	345.1	27.9	0.8	5.4	9.3
50°	2898.6	2868.3	2725.6	2314.7	1642.4	825.8	309.4	23.3	0.8	4.7	9.3
51°	2821.8	2778.4	2610.1	2158.0	1478.0	726.6	270.6	18.6	0.8	4.7	8.5
52°	2683.0	2641.9	2453.5	2008.4	1318.2	625.0	233.4	15.5	0.8	4.7	9.3
53°	2533.3	2474.4	2269.7	1844.0	1177.9	535.0	195.4	13.2	0.8	4.7	8.5
54°	2344.9	2318.5	2083.6	1642.4	1013.5	448.2	160.5	10.9	0.8	4.7	8.5
55°	2167.3	2128.6	1884.3	1436.1	864.6	367.6	134.1	8.5	0.8	4.7	8.5
56°	1940.9	1882.7	1654.0	1246.9	713.4	296.2	113.2	7.0	0.8	4.7	8.5
57°	1671.1	1609.0	1428.3	1036.8	559.9	225.7	94.6	5.4	0.8	4.7	8.5
58°	1413.6	1360.1	1166.2	800.2	421.8	156.6	78.3	3.9	0.8	3.9	8.5
59°	1221.3	1162.4	970.1	615.7	293.1	115.5	58.9	3.1	0.8	4.7	8.5
60°	1057.7	981.7	780.9	476.9	209.4	83.0	43.4	1.6	1.6	4.7	8.5
62.5°	609.5	538.1	373.0	193.9	86.1	42.6	20.9	0.8	1.6	4.7	8.5
65°	154.3	137.3	89.2	41.9	24.0	14.7	7.8	0.8	1.6	3.9	7.8



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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	4.7	3.9	3.1	1.6	0.8	1.6	3.9	7.8
70°	2.3	2.3	2.3	1.6	1.6	0.8	0.8	0.8	1.6	3.9	7.0
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.3	3.9	6.2
75°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.3	3.9	6.2
77.5°	1.6	1.6	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	4.7
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°	39.5	39.5	39.5
2.5°	37.2	37.2	37.2
5°	34.9	34.9	34.1
7.5°	32.6	31.8	31.8
10°	29.5	29.5	29.5
12.5°	27.1	27.1	27.1
15°	24.8	25.6	25.6
17.5°	22.5	24.0	24.0
20°	20.9	22.5	23.3
22.5°	19.4	20.9	21.7
25°	18.6	20.2	20.9
27.5°	17.1	19.4	20.9
30°	16.3	18.6	20.2
31°	16.3	18.6	19.4
32°	15.5	18.6	19.4
33°	15.5	18.6	19.4
34°	15.5	17.8	19.4
35°	14.7	17.8	18.6
36°	14.7	17.8	18.6
37°	14.7	17.8	19.4
38°	14.7	17.8	18.6
39°	14.0	17.8	18.6
40°	14.0	17.8	18.6
41°	14.0	17.8	18.6
42°	14.0	17.8	18.6
43°	14.0	17.8	18.6
44°	14.0	17.1	18.6
45°	14.0	17.1	18.6
46°	14.0	17.8	18.6
47°	14.0	17.8	19.4
48°	14.0	17.1	18.6
49°	13.2	17.1	18.6
50°	13.2	17.1	18.6
51°	13.2	17.8	19.4
52°	13.2	17.8	19.4
53°	13.2	17.8	19.4
54°	13.2	17.8	18.6
55°	13.2	17.8	19.4
56°	13.2	17.8	18.6
57°	13.2	17.8	18.6
58°	13.2	17.1	18.6
59°	13.2	17.1	18.6
60°	13.2	17.1	18.6
62.5°	12.4	17.1	18.6
65°	12.4	16.3	17.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.6	16.3	17.1
70°	10.9	15.5	16.3
72.5°	10.1	14.7	15.5
75°	9.3	13.2	14.0
77.5°	7.8	11.6	13.2
80°	7.0	10.1	10.9
82.5°	5.4	8.5	9.3
85°	3.9	6.2	6.2
87.5°	1.6	3.1	3.1
90°	0.0	0.0	0.0

(END OF REPORT)