

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: P1344762

Luminaire Tested: P3A13R25W2N902750DE010 E3CA301MW_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R25W2N902750DE010 E3CA301MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 4000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

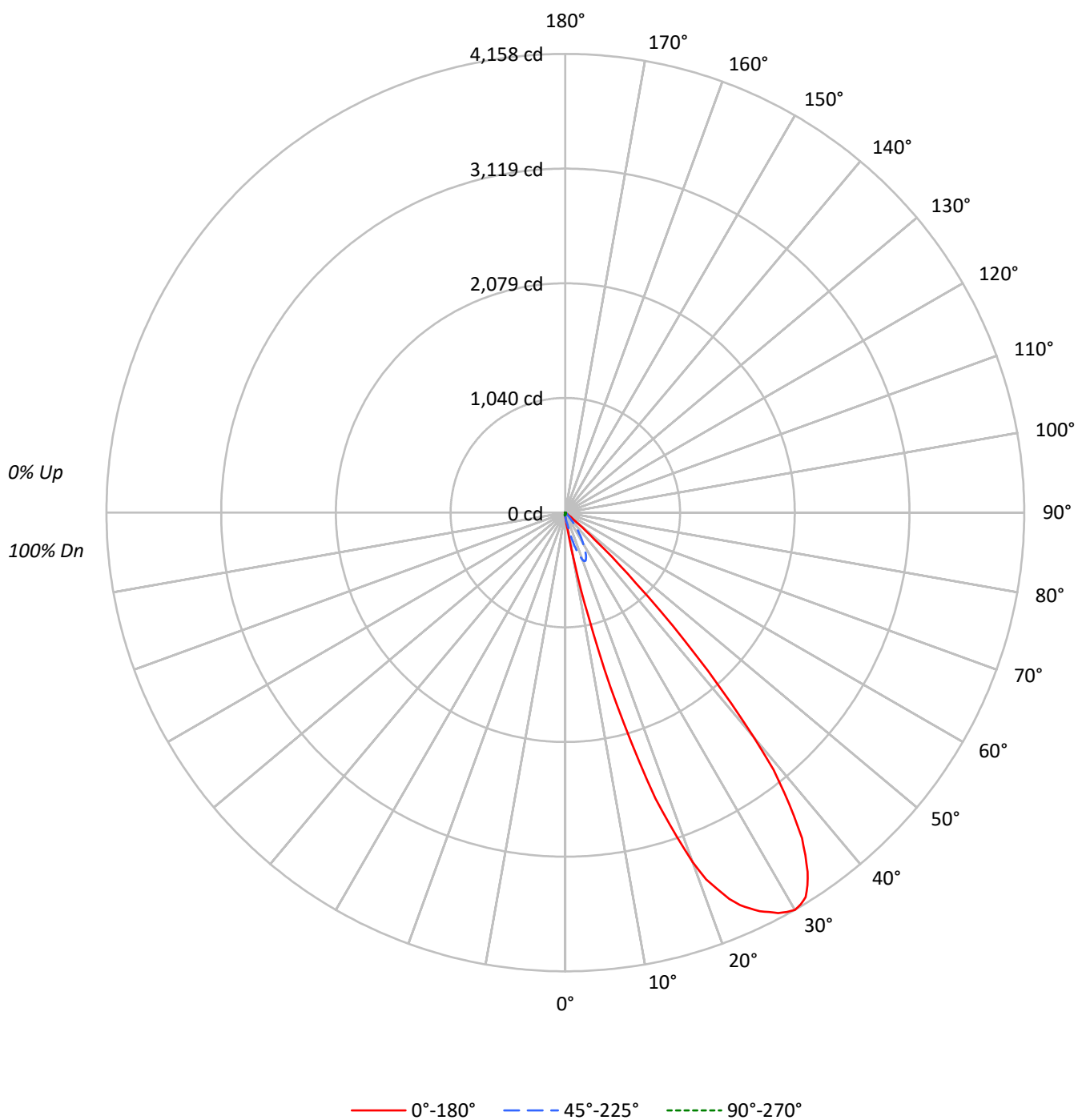
Lumens per Lamp: N/A
Luminaire Lumens: 832.1 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50	50
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7828	7828	7828	7828	7828
5°	19657	14528	7352	3764	2906
10°	85904	24716	6056	1737	1202
15°	408493	66607	4222	704	522
20°	786355	106689	2707	187	187
25°	957684	107619	1500	0	0
30°	1052947	82367	582	0	0
35°	1014688	52361	214	0	0
40°	758163	22671	0	0	229
45°	280680	6016	248	248	713
50°	33091	785	546	546	1058
55°	3250	0	612	879	1491
60°	351	0	1009	1360	1710
65°	415	415	1608	2024	2439
70°	513	513	1988	1988	3013
75°	678	678	1949	1949	2626
80°	0	1010	2904	2020	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 280680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.6
10°-20°	97.0	11.7
20°-30°	304.5	36.6
30°-40°	320.5	38.5
40°-50°	94.2	11.3
50°-60°	5.1	0.6
60°-70°	2.5	0.3
70°-80°	2.1	0.3
80°-90°	1.1	0.1
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°	406.7	48.9
0°-40°	727.2	87.4
0°-60°	826.4	99.3
0°-90°	832.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	89	66	33	17	13	16
15°	1799	293	19	3	2	567
25°	3958	445	6	0	0	1815
35°	3790	196	1	0	0	2287
45°	905	19	1	1	2	823
55°	8	0	2	2	4	22
65°	1	1	3	4	5	1
75°	1	1	2	2	3	1
85°	0	1	2	1	1	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°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
2.5°	55.1	55.9	53.6	55.1	53.6	52.8	52.0	48.1	41.9	35.7	29.5
5°	89.3	89.3	85.4	84.6	83.1	80.0	76.9	66.0	47.4	33.4	23.3
7.5°	139.7	139.0	137.4	133.5	125.8	118.0	110.2	86.2	52.0	31.1	17.9
10°	385.8	380.4	373.4	331.5	284.1	242.2	205.7	111.0	55.9	27.2	13.2
12.5°	958.7	927.6	853.9	770.1	662.9	550.4	440.1	180.9	57.4	22.5	9.3
15°	1799.4	1735.0	1620.1	1452.4	1233.5	987.4	777.8	293.4	55.9	18.6	7.0
17.5°	2716.9	2654.8	2495.7	2241.1	1918.9	1540.9	1169.8	388.9	52.0	15.5	4.7
20°	3369.8	3303.8	3154.7	2884.6	2536.1	2032.3	1540.1	457.2	48.9	11.6	2.3
21°	3560.7	3494.8	3337.2	3076.3	2709.9	2204.6	1658.9	468.9	46.6	10.1	1.6
22°	3681.8	3643.0	3473.8	3220.7	2847.3	2342.8	1760.6	474.3	45.0	9.3	1.6
23°	3803.7	3745.5	3587.1	3320.1	2952.1	2445.2	1835.9	470.4	43.5	7.8	0.8
24°	3893.8	3844.8	3660.9	3396.9	3025.1	2508.1	1880.1	460.3	41.1	7.0	0.8
25°	3958.2	3913.2	3721.4	3449.0	3074.0	2542.3	1894.1	444.8	38.8	6.2	0.8
26°	4019.5	3970.6	3771.9	3479.2	3099.6	2553.1	1880.9	427.7	36.5	5.4	0.0
27°	4063.8	4014.1	3806.8	3497.1	3101.2	2539.9	1845.2	404.4	34.2	4.7	0.0
28°	4111.1	4053.7	3830.9	3507.2	3091.9	2508.9	1794.0	379.6	32.6	3.9	0.0
29°	4139.8	4085.5	3855.7	3518.0	3072.5	2456.9	1719.4	350.1	28.7	2.3	0.0
30°	4158.5	4094.0	3853.4	3506.4	3046.8	2401.0	1630.2	325.3	24.8	2.3	0.0
31°	4142.9	4075.4	3828.5	3473.8	3005.7	2328.0	1538.6	294.2	20.2	1.6	0.0
32°	4109.6	4029.6	3785.1	3417.1	2932.0	2234.1	1443.9	268.6	14.7	1.6	0.0
33°	4028.0	3960.5	3706.7	3341.1	2835.7	2106.8	1320.4	243.7	10.1	0.8	0.0
34°	3925.6	3858.0	3599.5	3239.4	2706.8	1942.2	1170.6	218.1	8.5	0.8	0.0
35°	3790.5	3723.8	3478.5	3097.3	2536.1	1744.3	1016.1	195.6	7.0	0.8	0.0
36°	3648.5	3560.0	3325.5	2945.9	2307.1	1519.2	850.8	170.0	5.4	0.8	0.0
37°	3439.6	3379.9	3119.8	2715.4	2059.4	1303.4	730.5	146.7	3.9	0.8	0.0
38°	3223.1	3167.9	2914.1	2483.3	1783.1	1089.9	611.7	124.2	3.1	0.0	0.0
39°	2999.5	2907.9	2657.2	2186.0	1493.5	912.9	514.7	104.0	1.6	0.0	0.0
40°	2648.6	2578.8	2310.9	1828.9	1235.8	739.8	438.6	79.2	1.6	0.0	0.0
42.5°	1755.9	1690.7	1409.7	992.1	656.7	432.4	289.5	31.1	0.0	0.8	0.0
45°	905.1	864.0	701.7	519.3	372.6	265.5	186.3	19.4	0.0	0.8	0.8
47.5°	359.4	352.4	318.3	274.8	211.9	157.6	101.7	8.5	0.0	0.8	0.8
50°	97.0	97.8	91.6	84.6	76.9	72.2	42.7	2.3	0.0	1.6	0.8
52.5°	41.1	41.9	40.4	38.0	34.2	25.6	17.1	0.8	0.8	1.6	1.6
55°	8.5	9.3	10.1	10.9	12.4	10.9	7.0	0.0	0.8	1.6	1.6
57.5°	1.6	1.6	1.6	1.6	2.3	2.3	1.6	0.0	0.8	1.6	2.3
60°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	1.6	2.3	2.3
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.3	3.1
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	3.1	3.1
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	3.1
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	3.1
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	2.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	2.3	2.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	2.3	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	2.3	1.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.3	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.3	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.3	1.6
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°	35.7	35.7	35.7
2.5°	24.8	22.5	21.7
5°	17.1	14.7	13.2
7.5°	11.6	9.3	8.5
10°	7.8	6.2	5.4
12.5°	5.4	3.1	3.1
15°	3.1	2.3	2.3
17.5°	1.6	0.8	0.8
20°	0.8	0.8	0.8
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.8
39°	0.0	0.8	0.8
40°	0.0	0.8	0.8
42.5°	0.0	0.8	1.6
45°	0.8	1.6	2.3
47.5°	1.6	2.3	3.1
50°	1.6	3.1	3.1
52.5°	2.3	3.1	3.9
55°	2.3	3.9	3.9
57.5°	3.1	3.9	4.7
60°	3.1	3.9	3.9
62.5°	3.1	4.7	4.7
65°	3.9	4.7	4.7
67.5°	3.9	4.7	4.7
70°	3.1	3.9	4.7
72.5°	3.1	3.9	3.9
75°	2.3	3.1	3.1
77.5°	2.3	2.3	3.1
80°	1.6	2.3	2.3



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CATALOG NUMBER: P3A13R25W2N902750DE010 E3CA301MW_4000K

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	1.6	1.6	1.6
85°	0.8	0.8	0.8
87.5°	0.8	0.8	0.8
90°	0.0	0.0	0.0

(END OF REPORT)