

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: P1345782

Luminaire Tested: P3A13R35W2N902750DE010 E3CA301MW_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R35W2N902750DE010 E3CA301MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

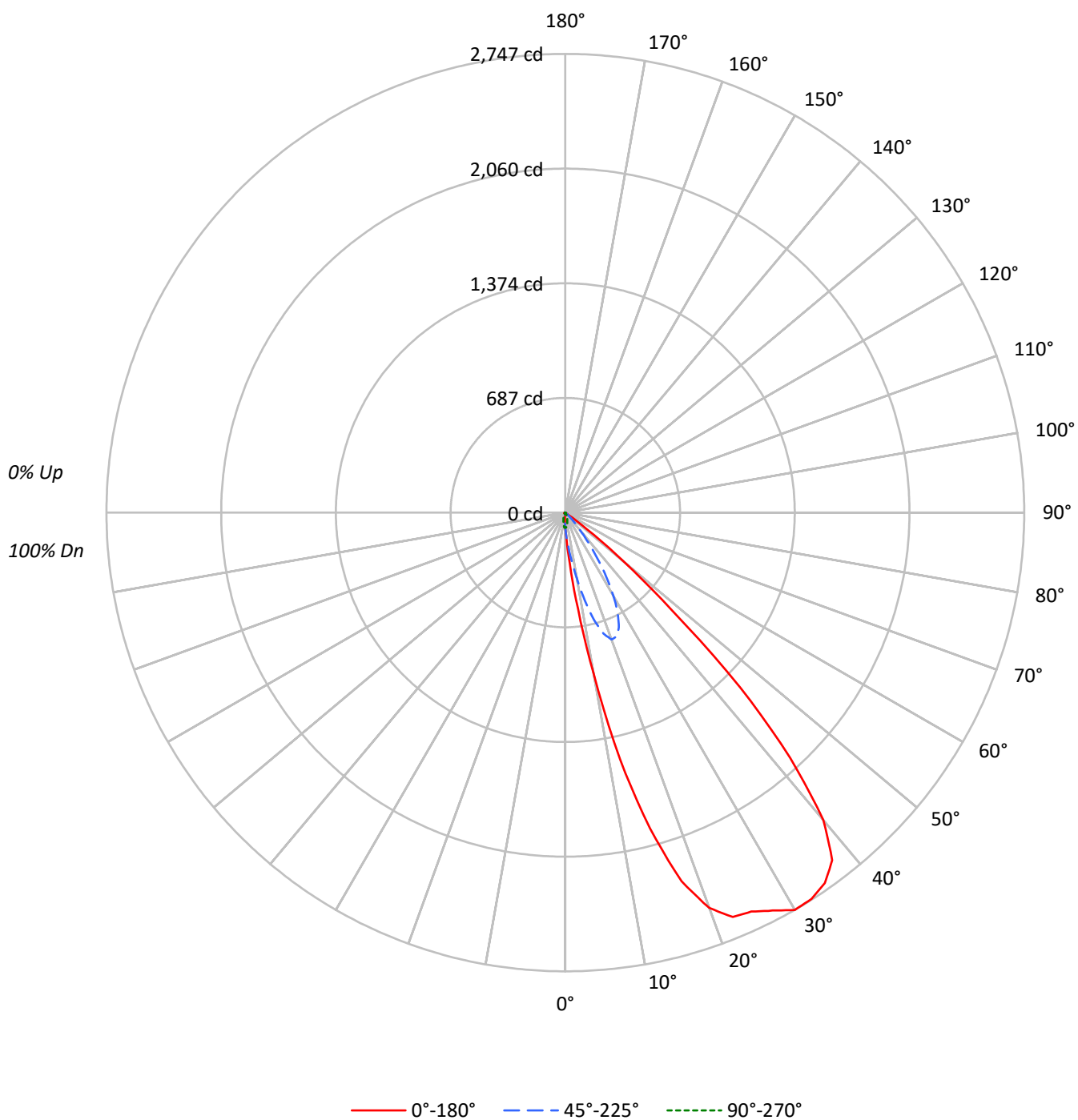
Lumens per Lamp: N/A
Luminaire Lumens: 864.1 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83	
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74	
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67	
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61	
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55	
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41	
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19889	19889	19889	19889	19889
5°	67774	44046	18600	7858	5811
10°	218121	89288	14674	2939	1893
15°	444407	151420	10397	1067	704
20°	587654	188596	6697	373	373
25°	637634	183325	3750	194	387
30°	695575	146098	1570	203	405
35°	724804	90935	428	214	428
40°	687774	39732	229	458	658
45°	459148	15878	248	713	1209
50°	153991	2661	546	1058	1603
55°	8602	306	612	1491	2064
60°	702	351	1009	1710	2368
65°	830	415	1193	2024	2802
70°	513	513	1475	2500	3013
75°	678	678	1949	2626	3304
80°	0	1010	2904	2904	2904
85°	0	2013	5787	2013	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 459148 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	1.8
10°-20°	124.1	14.4
20°-30°	261.9	30.3
30°-40°	297.2	34.4
40°-50°	146.3	16.9
50°-60°	12.7	1.5
60°-70°	2.6	0.3
70°-80°	2.4	0.3
80°-90°	1.2	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°	401.8	46.5
0°-40°	698.9	80.9
0°-60°	857.9	99.3
0°-90°	864.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	91	91	91	91	91	
5°	308	200	84	36	26	51
15°	1958	667	46	5	3	557
25°	2635	758	16	1	2	1226
35°	2708	340	2	1	2	1669
45°	1481	51	1	2	4	1094
55°	22	1	2	4	5	88
65°	2	1	2	4	5	1
75°	1	1	2	3	4	1
85°	0	1	2	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
2.5°	157.4	161.3	159.8	159.0	158.2	155.1	148.1	147.4	140.4	135.7	112.5
5°	307.9	301.7	303.3	294.7	283.9	268.4	258.3	236.6	218.7	200.1	131.1
7.5°	580.1	571.6	555.3	530.5	504.9	471.6	421.1	380.8	334.3	290.1	145.8
10°	979.6	974.9	954.0	890.4	834.5	745.3	661.6	573.2	486.3	401.0	155.9
12.5°	1513.2	1481.4	1443.4	1358.8	1248.7	1137.0	971.8	819.0	680.2	537.5	156.7
15°	1957.6	1937.4	1883.9	1773.8	1641.1	1479.8	1283.6	1078.1	868.7	667.0	148.9
17.5°	2315.1	2284.1	2215.1	2107.3	1954.5	1745.1	1515.5	1265.0	1009.8	759.3	135.7
20°	2518.3	2502.0	2449.3	2341.5	2174.7	1945.9	1684.6	1392.9	1098.2	808.2	118.7
22.5°	2620.7	2609.1	2570.3	2484.2	2328.3	2097.9	1798.6	1459.6	1123.8	802.7	100.8
25°	2635.4	2632.3	2599.0	2533.8	2403.5	2175.5	1848.2	1472.1	1102.9	757.7	83.8
27.5°	2686.6	2675.8	2636.2	2571.1	2440.0	2188.7	1831.1	1429.4	1035.4	678.6	69.8
30°	2747.1	2739.4	2699.8	2632.3	2477.2	2176.3	1770.7	1334.8	927.6	577.0	52.0
32.5°	2742.5	2739.4	2706.0	2634.6	2450.8	2103.4	1662.8	1192.8	781.0	455.3	32.6
35°	2707.6	2696.7	2654.8	2544.7	2300.4	1915.7	1458.1	1000.5	618.1	339.7	20.9
37.5°	2623.8	2600.5	2529.9	2343.0	2031.2	1626.4	1187.4	772.5	437.4	227.2	13.2
40°	2402.7	2373.3	2231.3	2005.7	1679.1	1281.3	883.4	531.3	288.5	138.8	5.4
42.5°	1993.2	1933.5	1791.6	1559.7	1253.3	905.9	580.1	344.4	169.9	83.8	1.6
45°	1480.6	1434.8	1285.9	1075.7	821.3	580.9	351.3	186.1	93.8	51.2	0.8
47.5°	862.4	834.5	757.7	619.7	453.7	304.8	179.9	100.0	55.1	24.8	0.8
50°	451.4	416.5	358.3	271.5	200.1	140.4	87.6	53.5	27.1	7.8	0.8
52.5°	158.2	155.9	141.9	107.0	86.9	62.8	42.7	23.3	7.8	1.6	0.8
55°	22.5	22.5	20.9	23.3	24.8	22.5	14.7	6.2	1.6	0.8	0.8
57.5°	1.6	1.6	1.6	2.3	3.1	3.1	2.3	0.8	0.8	0.8	1.6
60°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
62.5°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
65°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
77.5°	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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):

	90°	112.5°	135°	157.5°	180°
0°	90.7	90.7	90.7	90.7	90.7
2.5°	90.0	72.1	57.4	50.4	48.1
5°	84.5	54.3	35.7	27.9	26.4
7.5°	75.2	38.8	21.7	15.5	14.7
10°	65.9	27.9	13.2	9.3	8.5
12.5°	55.1	19.4	8.5	5.4	4.7
15°	45.8	13.2	4.7	3.9	3.1
17.5°	36.5	8.5	3.1	2.3	3.1
20°	28.7	5.4	1.6	1.6	1.6
22.5°	21.7	3.1	1.6	1.6	1.6
25°	15.5	1.6	0.8	0.8	1.6
27.5°	10.9	0.8	0.8	0.8	1.6
30°	6.2	0.8	0.8	0.8	1.6
32.5°	3.1	0.8	0.8	1.6	1.6
35°	1.6	0.8	0.8	1.6	1.6
37.5°	0.8	0.8	0.8	1.6	2.3
40°	0.8	0.8	1.6	2.3	2.3
42.5°	0.8	0.8	1.6	2.3	3.1
45°	0.8	1.6	2.3	3.1	3.9
47.5°	1.6	1.6	3.1	3.9	4.7
50°	1.6	2.3	3.1	4.7	4.7
52.5°	1.6	2.3	3.9	4.7	5.4
55°	1.6	3.1	3.9	5.4	5.4
57.5°	2.3	3.1	3.9	5.4	5.4
60°	2.3	3.1	3.9	5.4	5.4
62.5°	2.3	3.1	3.9	5.4	5.4
65°	2.3	3.1	3.9	5.4	5.4
67.5°	2.3	3.1	3.9	4.7	5.4
70°	2.3	3.1	3.9	4.7	4.7
72.5°	3.1	3.1	3.9	4.7	4.7
75°	2.3	3.1	3.1	3.9	3.9
77.5°	2.3	2.3	2.3	3.1	3.1
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	1.6	1.6	2.3	2.3
85°	2.3	1.6	0.8	1.6	1.6
87.5°	1.6	1.6	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)