

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: P1345366

Luminaire Tested: P3A13R30W2N902765DE010 E3CA451MB_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R30W2N902765DE010 E3CA451MB_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,
E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

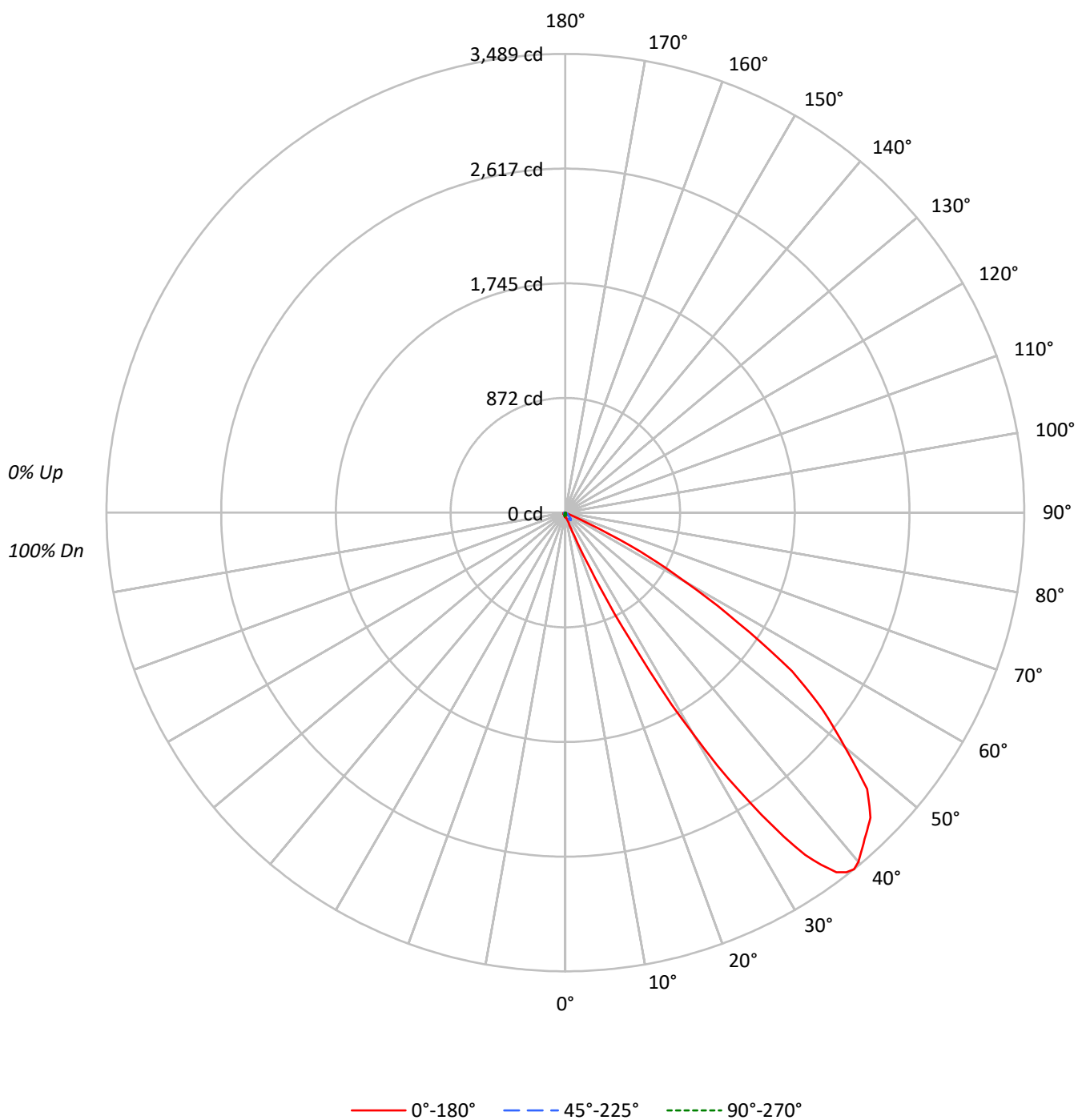
Lumens per Lamp: N/A
Luminaire Lumens: 907.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7697	7697	7697	7697	7697
5°	8232	8078	7572	6890	6736
10°	9018	7994	6635	5945	5789
15°	13190	7968	5539	5040	5199
20°	33160	8727	4270	4270	4807
25°	153977	10912	3339	3871	4428
30°	490202	15091	2507	3671	4456
35°	850619	18417	2034	3480	4497
40°	992030	18377	1517	3492	4580
45°	1017377	13025	1644	3783	4962
50°	946118	7300	1296	3923	5731
55°	804100	3785	1453	4396	6423
60°	464393	1009	1667	4693	7017
65°	94744	0	1972	5552	7939
70°	1475	513	2436	6347	9296
75°	1271	678	2626	6439	11014
80°	1010	1010	3915	7703	12502
85°	0	2013	7799	7799	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1017377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	9.1	1.0
20°-30°	52.3	5.8
30°-40°	244.3	26.9
40°-50°	345.5	38.1
50°-60°	212.5	23.4
60°-70°	32.4	3.6
70°-80°	5.1	0.6
80°-90°	2.6	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°	64.6	7.1
0°-40°	308.9	34.1
0°-60°	866.9	95.6
0°-90°	907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	37	37	34	31	31	4
15°	58	35	24	22	23	21
25°	636	45	14	16	18	392
35°	3178	69	8	13	17	1907
45°	3281	42	5	12	16	2487
55°	2103	10	4	12	17	1790
65°	183	0	4	11	15	330
75°	2	1	3	8	13	2
85°	0	1	3	3	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
2.5°	35.9	35.9	36.7	36.7	35.9	36.7	36.7	36.7	35.1	34.4	32.9
5°	37.4	37.4	37.4	38.2	37.4	37.4	36.7	35.9	34.4	32.1	31.3
7.5°	39.0	39.0	38.2	39.0	38.2	38.2	36.7	35.1	32.9	30.6	29.0
10°	40.5	40.5	39.7	39.7	39.0	39.0	35.9	33.6	29.8	27.5	26.7
12.5°	45.1	45.1	44.3	43.5	42.0	41.3	35.1	31.3	26.7	24.4	23.7
15°	58.1	57.3	55.8	53.5	49.7	48.9	35.1	29.0	24.4	22.2	22.2
17.5°	79.5	78.7	76.4	70.3	63.4	61.1	35.1	26.0	21.4	19.9	19.9
20°	142.1	136.0	124.5	109.3	93.2	84.8	37.4	22.9	18.3	17.6	18.3
21°	185.7	179.5	165.0	139.8	111.5	102.4	39.0	22.2	17.6	16.8	18.3
22°	252.9	246.0	216.2	181.8	141.3	125.3	39.7	20.6	16.0	16.0	17.6
23°	353.0	341.5	291.1	236.1	176.5	153.6	41.3	19.9	15.3	16.0	16.8
24°	462.2	452.3	395.0	312.5	225.4	192.5	42.8	19.1	14.5	14.5	16.0
25°	636.4	625.0	523.4	394.2	285.7	231.5	45.1	17.6	13.8	13.8	16.0
26°	861.8	809.1	673.9	508.1	352.2	290.3	47.4	16.8	13.0	13.8	15.3
27°	1075.7	1032.2	880.1	651.7	435.5	356.8	50.4	16.0	12.2	13.0	15.3
28°	1356.9	1295.8	1104.0	824.4	548.6	431.7	53.5	15.3	11.5	13.0	14.5
29°	1671.7	1586.1	1354.6	1018.4	676.2	515.7	56.5	14.5	10.7	12.2	14.5
30°	1936.0	1855.8	1624.3	1248.4	822.8	626.5	59.6	13.8	9.9	12.2	14.5
31°	2246.2	2124.7	1844.3	1443.2	948.9	737.3	62.6	12.2	9.2	11.5	13.8
32°	2497.6	2412.8	2114.8	1663.3	1114.7	859.5	64.9	11.5	9.2	11.5	13.8
33°	2740.5	2626.7	2338.7	1874.1	1264.5	984.8	67.2	10.7	8.4	10.7	13.8
34°	2972.8	2868.1	2550.3	2044.5	1405.8	1104.0	68.8	9.2	8.4	10.7	13.0
35°	3177.6	3056.1	2736.7	2211.1	1551.0	1212.5	68.8	8.4	7.6	9.9	13.0
36°	3310.5	3223.4	2898.7	2375.3	1682.4	1315.6	68.8	7.6	6.9	9.9	12.2
37°	3424.3	3322.7	3028.6	2501.4	1779.4	1398.2	68.8	6.9	6.9	9.9	12.2
38°	3470.9	3383.8	3118.0	2612.9	1870.3	1482.2	68.0	6.1	6.1	9.2	12.2
39°	3489.3	3411.3	3185.2	2693.2	1937.6	1538.7	66.5	5.3	6.1	9.2	12.2
40°	3465.6	3406.8	3219.6	2745.1	1991.0	1580.0	64.2	4.6	5.3	9.2	12.2
42.5°	3367.8	3328.8	3211.9	2797.1	2036.9	1610.6	55.8	3.1	5.3	8.4	12.2
45°	3280.7	3237.9	3134.8	2742.8	1977.3	1550.2	42.0	1.5	5.3	8.4	12.2
47.5°	3111.8	3085.1	3004.1	2604.5	1846.6	1414.2	29.8	0.8	4.6	7.6	11.5
50°	2773.4	2748.2	2641.2	2261.5	1588.4	1195.7	21.4	0.8	3.8	7.6	11.5
52.5°	2470.1	2443.3	2289.8	1880.2	1220.1	876.3	13.8	0.8	3.8	7.6	11.5
55°	2103.3	2056.7	1855.0	1427.2	864.9	587.5	9.9	0.8	3.8	6.9	11.5
57.5°	1557.1	1489.1	1308.8	973.4	498.1	318.6	5.3	0.8	3.8	6.9	11.5
60°	1058.9	1018.4	819.0	513.4	212.4	134.5	2.3	0.8	3.8	6.9	10.7
62.5°	641.8	590.6	411.8	218.5	91.7	61.1	0.0	1.5	3.8	6.9	10.7
65°	182.6	162.0	107.7	49.7	26.0	19.9	0.0	1.5	3.8	6.9	10.7
67.5°	6.1	6.1	6.1	5.3	3.8	3.8	0.8	1.5	3.8	6.9	9.9
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	1.5	3.8	6.1	9.9
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	3.1	5.3	9.2
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	5.3	7.6
77.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	4.6	7.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	4.6	6.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	2.3	3.1	3.1	4.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	2.3	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.3	2.3	1.5
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):

	157.5°	180°
0°	35.1	35.1
2.5°	32.9	32.9
5°	30.6	30.6
7.5°	28.3	28.3
10°	26.0	26.0
12.5°	24.4	24.4
15°	22.2	22.9
17.5°	20.6	21.4
20°	19.9	20.6
21°	19.9	20.6
22°	19.1	19.9
23°	19.1	19.9
24°	18.3	19.1
25°	17.6	18.3
26°	17.6	18.3
27°	17.6	18.3
28°	16.8	18.3
29°	16.8	17.6
30°	16.8	17.6
31°	16.0	17.6
32°	16.0	17.6
33°	16.0	16.8
34°	15.3	16.8
35°	15.3	16.8
36°	15.3	16.8
37°	15.3	16.0
38°	15.3	16.8
39°	15.3	16.0
40°	15.3	16.0
42.5°	15.3	16.0
45°	15.3	16.0
47.5°	15.3	16.8
50°	15.3	16.8
52.5°	15.3	16.8
55°	15.3	16.8
57.5°	15.3	16.0
60°	15.3	16.0
62.5°	14.5	16.0
65°	14.5	15.3
67.5°	14.5	15.3
70°	13.8	14.5
72.5°	13.0	13.8
75°	11.5	13.0
77.5°	10.7	11.5
80°	9.2	9.9



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.6	7.6
85°	5.3	6.1
87.5°	3.1	3.1
90°	0.0	0.0

(END OF REPORT)