

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: P1345362

Luminaire Tested: P3A13R30W2N902765DE010 E3CA301MW_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R30W2N902765DE010 E3CA301MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

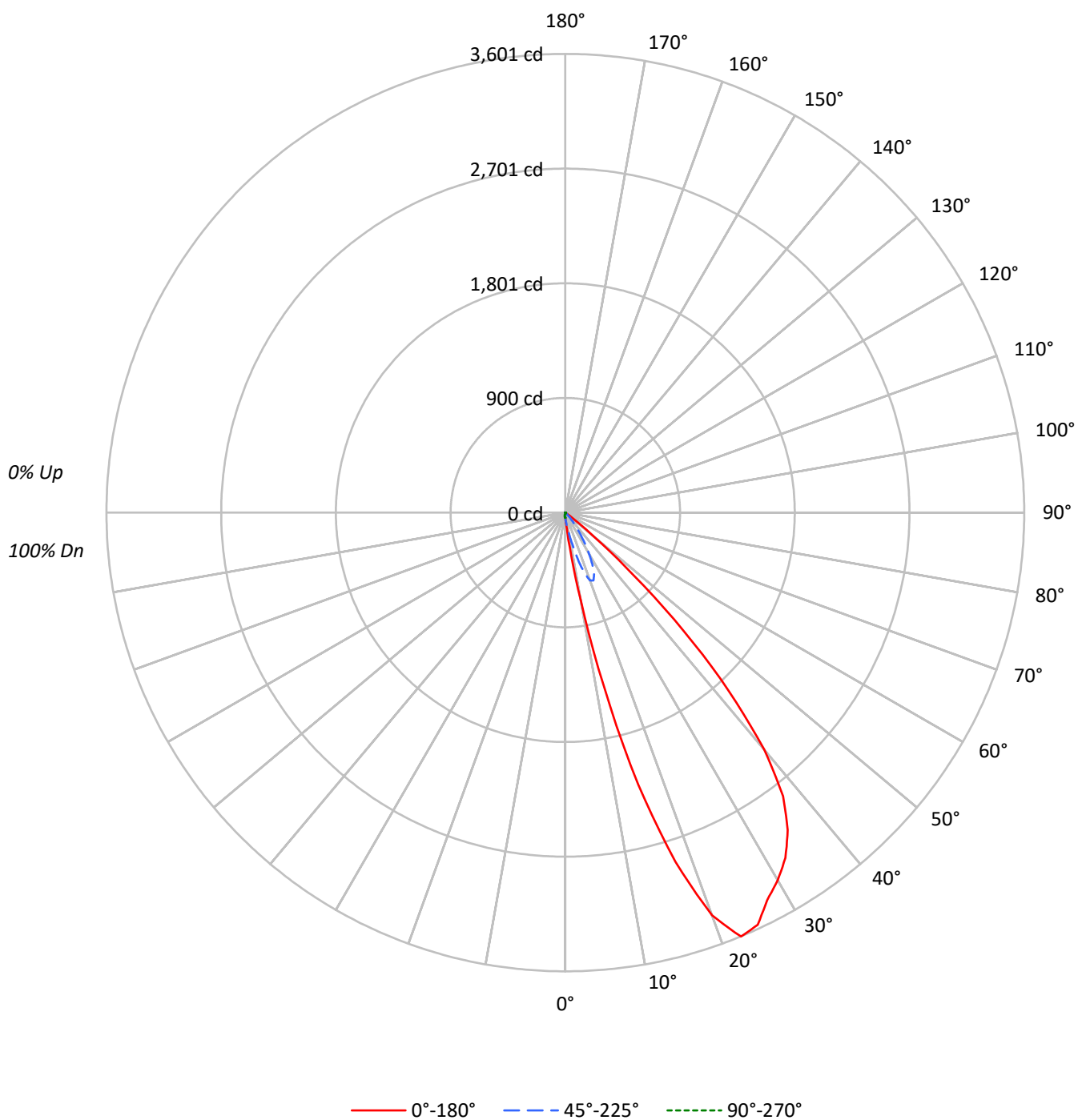
Lumens per Lamp: N/A
Luminaire Lumens: 849.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8837	8837	8837	8837	8837
5°	26634	17764	8364	3764	3082
10°	154261	37652	6569	1737	1202
15°	501751	85426	4586	363	182
20°	785142	132148	2894	0	0
25°	863808	129128	1500	0	0
30°	843674	93103	582	0	0
35°	814293	52950	214	0	0
40°	694415	22442	0	0	0
45°	407546	8435	248	0	248
50°	98965	1603	273	273	785
55°	8602	0	612	879	1185
60°	351	0	702	1009	1710
65°	415	415	1193	1193	2024
70°	513	513	1475	1475	1988
75°	0	678	1949	1949	1949
80°	0	1010	2904	2020	2020
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 407546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.9
10°-20°	116.7	13.7
20°-30°	296.5	34.9
30°-40°	295.6	34.8
40°-50°	119.7	14.1
50°-60°	8.3	1.0
60°-70°	1.9	0.2
70°-80°	1.9	0.2
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°	420.6	49.5
0°-40°	716.2	84.4
0°-60°	844.2	99.4
0°-90°	849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	121	81	38	17	14	28
15°	2210	376	20	2	1	643
25°	3570	534	6	0	0	1612
35°	3042	198	1	0	0	1865
45°	1314	27	1	0	1	1003
55°	22	0	2	2	3	59
65°	1	1	2	2	4	1
75°	0	1	2	2	2	0
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°	35°	40°	45°	67.5°
0°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
2.5°	66.7	67.5	67.5	65.9	65.2	65.2	62.8	62.1	59.7	57.4	49.7
5°	121.0	118.7	115.6	115.6	108.6	104.7	99.3	93.1	88.4	80.7	57.4
7.5°	274.6	256.0	250.6	243.6	217.2	196.3	172.2	151.3	131.9	115.6	63.6
10°	692.8	656.3	626.1	564.8	488.0	414.3	346.0	266.9	212.6	169.1	68.3
12.5°	1395.6	1346.8	1288.6	1176.9	1033.4	849.5	686.6	512.8	360.0	249.0	69.8
15°	2210.2	2127.2	2036.5	1894.5	1659.4	1395.6	1101.6	824.7	578.0	376.3	68.3
17.5°	2874.3	2841.7	2707.5	2513.6	2225.7	1885.9	1523.7	1145.1	779.7	492.6	63.6
20°	3364.6	3342.1	3180.0	2973.6	2649.3	2259.9	1799.8	1345.2	920.1	566.3	56.6
22.5°	3601.2	3597.3	3480.2	3269.2	2925.5	2484.1	1977.5	1460.8	963.5	576.4	47.3
25°	3570.2	3584.2	3517.4	3360.7	3031.0	2576.4	2030.2	1460.8	931.7	533.7	39.6
27.5°	3429.0	3438.3	3396.4	3276.2	2969.0	2509.7	1956.5	1366.9	839.4	458.5	32.6
30°	3332.0	3335.9	3283.9	3155.1	2829.3	2357.6	1782.8	1193.2	699.8	367.7	24.0
32.5°	3214.1	3213.3	3152.8	3005.4	2646.2	2144.3	1562.4	986.0	537.6	279.3	14.0
35°	3041.9	3022.5	2940.3	2770.4	2373.1	1857.2	1280.8	751.0	387.1	197.8	8.5
37.5°	2805.3	2754.8	2638.5	2411.2	1989.9	1456.2	949.6	527.5	264.5	131.1	5.4
40°	2425.9	2372.4	2214.1	1937.9	1505.0	1048.1	640.0	343.7	166.8	78.4	3.1
42.5°	1902.2	1865.8	1652.4	1377.0	993.8	668.7	384.8	203.3	93.9	45.0	0.8
45°	1314.2	1266.9	1099.3	865.8	596.6	370.8	215.7	106.3	53.5	27.2	0.0
47.5°	725.4	667.2	570.2	448.4	300.2	194.7	108.6	57.4	30.3	13.2	0.0
50°	290.1	287.8	228.9	162.9	114.8	88.4	54.3	31.0	15.5	4.7	0.8
52.5°	101.6	101.6	87.7	71.4	55.9	40.3	27.2	14.7	5.4	1.6	0.8
55°	22.5	24.8	23.3	21.7	20.9	17.8	11.6	5.4	1.6	0.0	0.8
57.5°	2.3	2.3	2.3	3.1	3.9	3.9	3.1	1.6	0.0	0.0	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	1.6
62.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.6
65°	0.8	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°	0.0	0.0	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8	2.3
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	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	0.0	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°	40.3	40.3	40.3	40.3	40.3
2.5°	40.3	31.8	26.4	23.3	22.5
5°	38.0	24.0	17.1	14.7	14.0
7.5°	34.1	17.8	11.6	9.3	8.5
10°	29.5	13.2	7.8	5.4	5.4
12.5°	24.8	10.1	4.7	2.3	1.6
15°	20.2	6.2	1.6	0.8	0.8
17.5°	15.5	3.9	0.0	0.0	0.0
20°	12.4	1.6	0.0	0.0	0.0
22.5°	9.3	0.8	0.0	0.0	0.0
25°	6.2	0.0	0.0	0.0	0.0
27.5°	3.9	0.0	0.0	0.0	0.0
30°	2.3	0.0	0.0	0.0	0.0
32.5°	0.8	0.0	0.0	0.0	0.0
35°	0.8	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.8	0.0	0.0	0.8	0.8
47.5°	0.8	0.8	0.8	1.6	1.6
50°	0.8	0.8	0.8	1.6	2.3
52.5°	1.6	0.8	1.6	2.3	2.3
55°	1.6	1.6	2.3	3.1	3.1
57.5°	1.6	1.6	2.3	3.1	3.1
60°	1.6	1.6	2.3	3.1	3.9
62.5°	2.3	2.3	2.3	3.1	3.1
65°	2.3	2.3	2.3	3.1	3.9
67.5°	2.3	2.3	2.3	3.1	3.9
70°	2.3	2.3	2.3	3.1	3.1
72.5°	3.1	2.3	2.3	3.1	3.1
75°	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	1.6	2.3	2.3
80°	2.3	1.6	1.6	1.6	1.6
82.5°	2.3	1.6	1.6	1.6	1.6
85°	2.3	1.6	0.8	0.8	0.8
87.5°	2.3	1.6	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)