

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: P1345059

Luminaire Tested: P3A13R309827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345059
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: P3A13R309827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

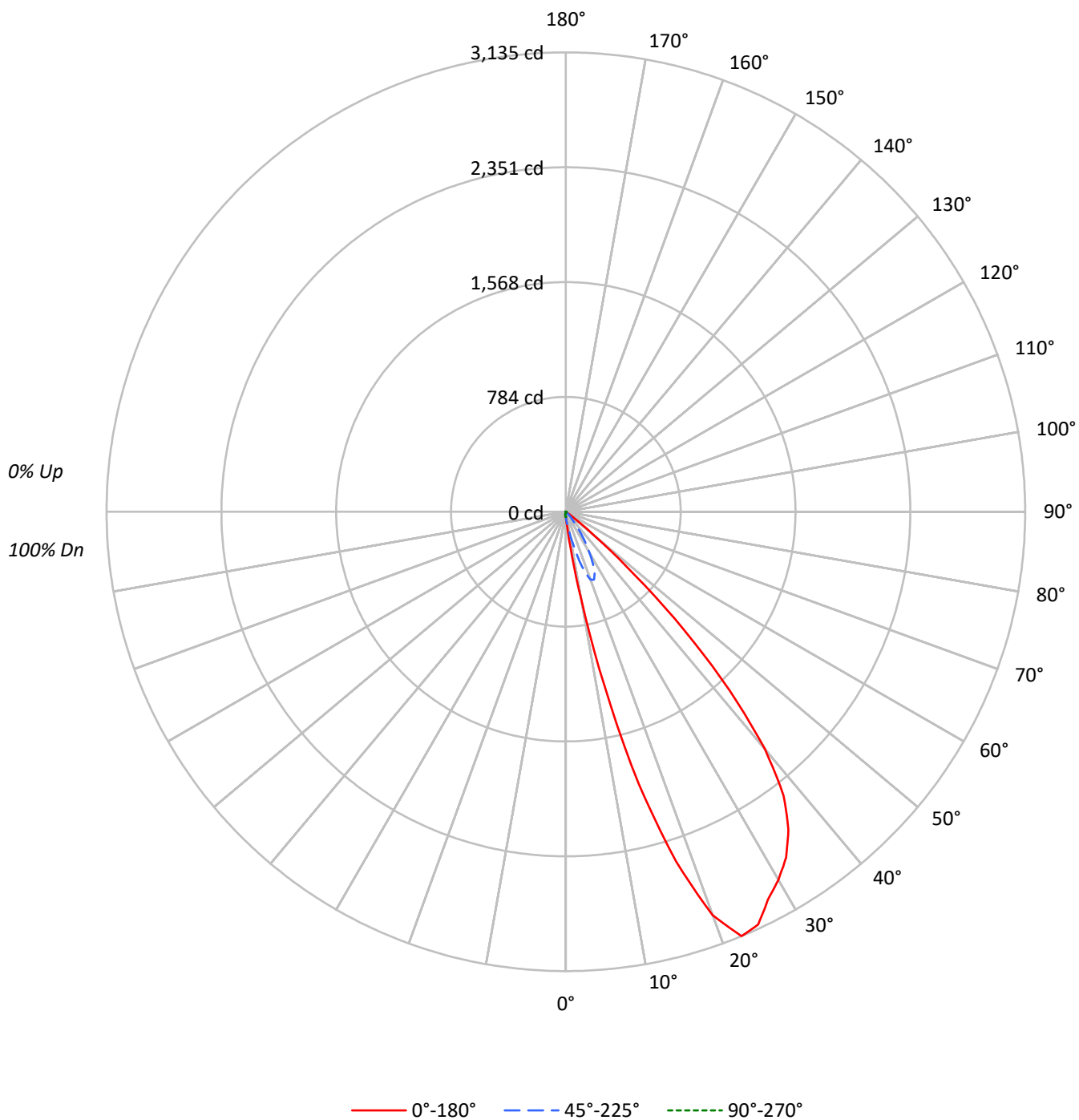
Lumens per Lamp: N/A
Luminaire Lumens: 739.1 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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°	7697	7697	7697	7697	7697
5°	23178	15452	7286	3280	2685
10°	134266	32776	5722	1514	1047
15°	436756	74348	3995	318	159
20°	683423	115043	2520	0	0
25°	751882	112410	1307	0	0
30°	734366	81050	506	0	0
35°	708796	46097	187	0	0
40°	604447	19522	0	0	0
45°	354734	7319	217	0	217
50°	86172	1399	239	239	682
55°	7493	0	535	765	1032
60°	307	0	614	877	1491
65°	363	363	1038	1038	1764
70°	449	449	1282	1282	1731
75°	0	593	1694	1694	1694
80°	0	884	2526	1768	1768
85°	0	1761	5032	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 354734 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.9
10°-20°	101.6	13.7
20°-30°	258.1	34.9
30°-40°	257.3	34.8
40°-50°	104.2	14.1
50°-60°	7.2	1.0
60°-70°	1.6	0.2
70°-80°	1.6	0.2
80°-90°	1.0	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°	366.1	49.5
0°-40°	623.4	84.4
0°-60°	734.8	99.4
0°-90°	739.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	105	70	33	15	12	24
15°	1924	328	18	1	1	560
25°	3108	465	5	0	0	1403
35°	2648	172	1	0	0	1623
45°	1144	24	1	0	1	873
55°	20	0	1	2	3	51
65°	1	1	2	2	3	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°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
2.5°	58.1	58.7	58.7	57.4	56.7	56.7	54.7	54.0	52.0	50.0	43.2
5°	105.3	103.3	100.6	100.6	94.5	91.2	86.4	81.0	77.0	70.2	50.0
7.5°	239.0	222.8	218.1	212.0	189.1	170.8	149.9	131.7	114.8	100.6	55.4
10°	603.0	571.3	544.9	491.6	424.7	360.6	301.2	232.3	185.0	147.2	59.4
12.5°	1214.8	1172.3	1121.6	1024.4	899.5	739.4	597.6	446.4	313.3	216.8	60.8
15°	1923.9	1851.6	1772.6	1649.0	1444.4	1214.8	958.9	717.8	503.1	327.5	59.4
17.5°	2501.9	2473.5	2356.7	2187.9	1937.4	1641.6	1326.2	996.7	678.7	428.8	55.4
20°	2928.7	2909.1	2768.0	2588.3	2306.1	1967.1	1566.6	1170.9	800.9	493.0	49.3
22.5°	3134.6	3131.3	3029.3	2845.6	2546.5	2162.2	1721.3	1271.5	838.7	501.7	41.2
25°	3107.6	3119.8	3061.7	2925.3	2638.3	2242.6	1767.2	1271.5	811.0	464.6	34.4
27.5°	2984.7	2992.8	2956.4	2851.7	2584.3	2184.5	1703.0	1189.8	730.6	399.1	28.4
30°	2900.3	2903.7	2858.4	2746.4	2462.7	2052.2	1551.8	1038.6	609.1	320.1	20.9
32.5°	2797.7	2797.0	2744.3	2616.0	2303.4	1866.5	1360.0	858.3	468.0	243.1	12.2
35°	2647.8	2630.9	2559.3	2411.4	2065.7	1616.6	1114.9	653.7	337.0	172.2	7.4
37.5°	2441.8	2397.9	2296.6	2098.8	1732.1	1267.5	826.5	459.2	230.3	114.1	4.7
40°	2111.6	2065.0	1927.2	1686.8	1310.0	912.3	557.1	299.1	145.2	68.2	2.7
42.5°	1655.8	1624.0	1438.3	1198.6	865.0	582.1	334.9	176.9	81.7	39.2	0.7
45°	1143.9	1102.7	956.9	753.6	519.3	322.8	187.7	92.5	46.6	23.6	0.0
47.5°	631.4	580.7	496.3	390.3	261.3	169.5	94.5	50.0	26.3	11.5	0.0
50°	252.6	250.5	199.2	141.8	99.9	77.0	47.3	27.0	13.5	4.1	0.7
52.5°	88.5	88.5	76.3	62.1	48.6	35.1	23.6	12.8	4.7	1.4	0.7
55°	19.6	21.6	20.3	18.9	18.2	15.5	10.1	4.7	1.4	0.0	0.7
57.5°	2.0	2.0	2.0	2.7	3.4	3.4	2.7	1.4	0.0	0.0	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	1.4
62.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	1.4
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
75°	0.0	0.0	0.7	0.7	0.0	0.7	0.7	0.7	0.7	0.7	2.0
77.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4
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°	35.1	35.1	35.1	35.1	35.1
2.5°	35.1	27.7	23.0	20.3	19.6
5°	33.1	20.9	14.9	12.8	12.2
7.5°	29.7	15.5	10.1	8.1	7.4
10°	25.7	11.5	6.8	4.7	4.7
12.5°	21.6	8.8	4.1	2.0	1.4
15°	17.6	5.4	1.4	0.7	0.7
17.5°	13.5	3.4	0.0	0.0	0.0
20°	10.8	1.4	0.0	0.0	0.0
22.5°	8.1	0.7	0.0	0.0	0.0
25°	5.4	0.0	0.0	0.0	0.0
27.5°	3.4	0.0	0.0	0.0	0.0
30°	2.0	0.0	0.0	0.0	0.0
32.5°	0.7	0.0	0.0	0.0	0.0
35°	0.7	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°	0.7	0.0	0.0	0.7	0.7
47.5°	0.7	0.7	0.7	1.4	1.4
50°	0.7	0.7	0.7	1.4	2.0
52.5°	1.4	0.7	1.4	2.0	2.0
55°	1.4	1.4	2.0	2.7	2.7
57.5°	1.4	1.4	2.0	2.7	2.7
60°	1.4	1.4	2.0	2.7	3.4
62.5°	2.0	2.0	2.0	2.7	2.7
65°	2.0	2.0	2.0	2.7	3.4
67.5°	2.0	2.0	2.0	2.7	3.4
70°	2.0	2.0	2.0	2.7	2.7
72.5°	2.7	2.0	2.0	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	1.4	2.0	2.0
80°	2.0	1.4	1.4	1.4	1.4
82.5°	2.0	1.4	1.4	1.4	1.4
85°	2.0	1.4	0.7	0.7	0.7
87.5°	2.0	1.4	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)