

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: P1344487

Luminaire Tested: P3A13R259727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344487
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: P3A13R259727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

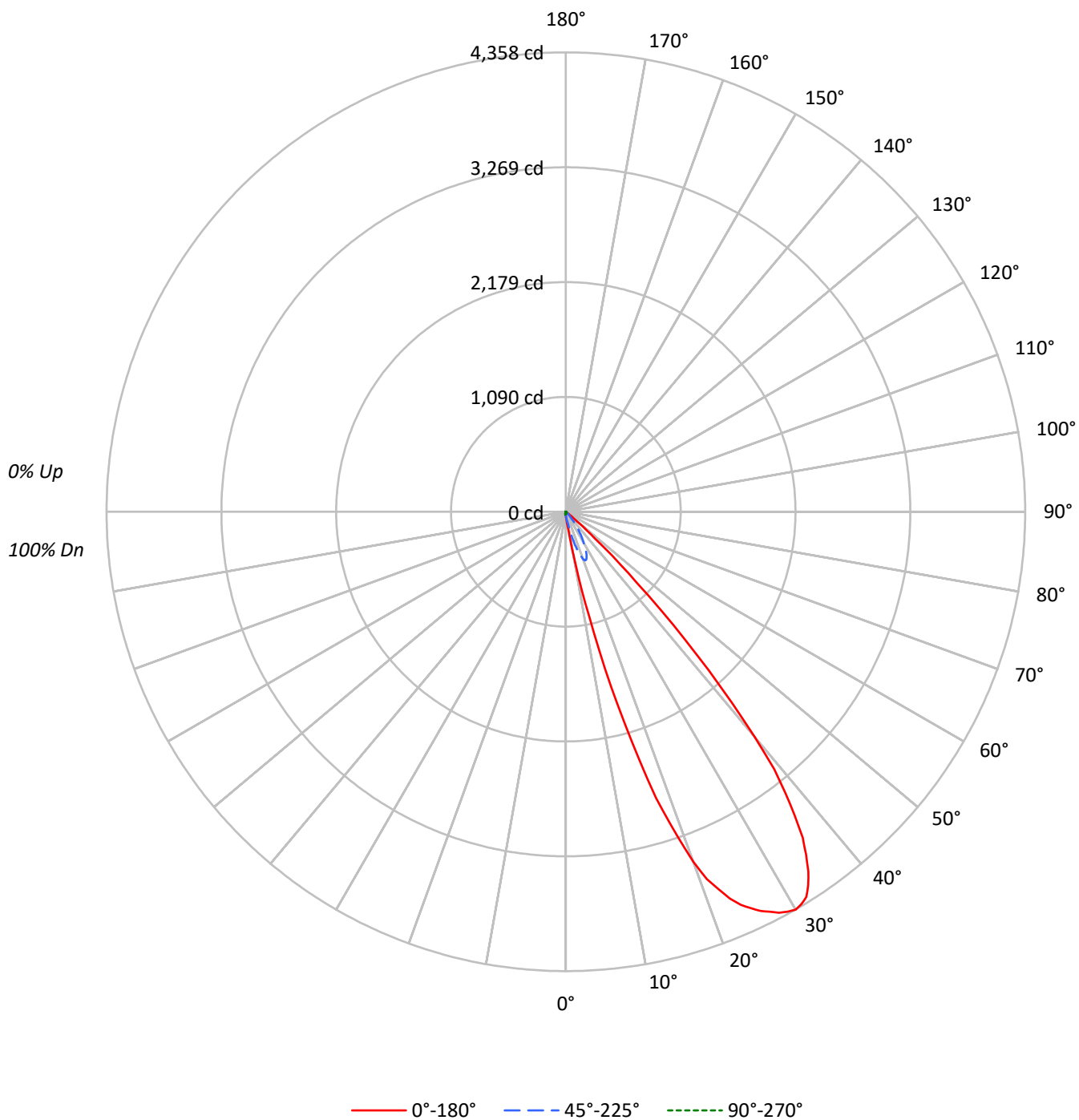
Lumens per Lamp: N/A
Luminaire Lumens: 872.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	104	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	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	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50		
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8201	8201	8201	8201	8201
5°	20603	15232	7704	3940	3038
10°	90045	25896	6346	1804	1269
15°	428130	69807	4427	749	545
20°	824158	111823	2847	187	187
25°	1003727	112797	1573	0	0
30°	1103562	86317	608	0	0
35°	1063461	54877	214	0	0
40°	794632	23759	0	0	229
45°	294170	6295	248	248	744
50°	34694	819	546	546	1126
55°	3403	0	612	918	1567
60°	351	0	1053	1447	1798
65°	415	415	1712	2127	2542
70°	513	513	2116	2116	3142
75°	678	678	2033	2033	2796
80°	0	1010	3031	2020	3031
85°	0	2013	6038	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 294170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.6
10°-20°	101.7	11.7
20°-30°	319.1	36.6
30°-40°	335.9	38.5
40°-50°	98.7	11.3
50°-60°	5.3	0.6
60°-70°	2.6	0.3
70°-80°	2.2	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°	426.2	48.9
0°-40°	762.1	87.4
0°-60°	866.1	99.3
0°-90°	872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	94	69	35	18	14	17
15°	1886	308	20	3	2	594
25°	4148	466	6	0	0	1903
35°	3973	205	1	0	0	2397
45°	949	20	1	1	2	862
55°	9	0	2	2	4	23
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°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	57.8	58.6	56.1	57.8	56.1	55.3	54.5	50.4	43.9	37.4	30.9
5°	93.6	93.6	89.5	88.7	87.1	83.8	80.5	69.2	49.6	35.0	24.4
7.5°	146.4	145.6	144.0	139.9	131.8	123.7	115.5	90.3	54.5	32.5	18.7
10°	404.4	398.7	391.3	347.4	297.8	253.8	215.6	116.3	58.6	28.5	13.8
12.5°	1004.8	972.2	894.9	807.1	694.8	576.8	461.3	189.6	60.2	23.6	9.8
15°	1885.9	1818.4	1698.0	1522.2	1292.8	1034.9	815.2	307.5	58.6	19.5	7.3
17.5°	2847.6	2782.5	2615.7	2348.8	2011.2	1615.0	1226.1	407.6	54.5	16.3	4.9
20°	3531.8	3462.6	3306.4	3023.3	2658.0	2130.0	1614.2	479.2	51.3	12.2	2.4
21°	3731.9	3662.8	3497.6	3224.2	2840.2	2310.6	1738.6	491.4	48.8	10.6	1.6
22°	3858.8	3818.2	3640.8	3375.6	2984.2	2455.4	1845.2	497.1	47.2	9.8	1.6
23°	3986.6	3925.6	3759.6	3479.7	3094.1	2562.8	1924.1	493.0	45.6	8.1	0.8
24°	4081.0	4029.7	3836.9	3560.3	3170.5	2628.7	1970.5	482.5	43.1	7.3	0.8
25°	4148.5	4101.3	3900.3	3614.8	3221.8	2664.5	1985.2	466.2	40.7	6.5	0.8
26°	4212.8	4161.5	3953.2	3646.5	3248.7	2675.9	1971.3	448.3	38.2	5.7	0.0
27°	4259.1	4207.1	3989.8	3665.2	3250.3	2662.1	1933.9	423.9	35.8	4.9	0.0
28°	4308.8	4248.6	4015.1	3675.8	3240.5	2629.5	1880.2	397.8	34.2	4.1	0.0
29°	4338.9	4281.9	4041.1	3687.2	3220.2	2575.0	1802.1	366.9	30.1	2.4	0.0
30°	4358.4	4290.9	4038.6	3675.0	3193.3	2516.4	1708.5	340.9	26.0	2.4	0.0
31°	4342.1	4271.3	4012.6	3640.8	3150.2	2439.9	1612.5	308.3	21.2	1.6	0.0
32°	4307.1	4223.3	3967.1	3581.4	3072.9	2341.5	1513.3	281.5	15.5	1.6	0.0
33°	4221.7	4150.9	3884.9	3501.7	2972.0	2208.1	1383.9	255.5	10.6	0.8	0.0
34°	4114.3	4043.5	3772.6	3395.1	2837.0	2035.6	1226.9	228.6	8.9	0.8	0.0
35°	3972.7	3902.8	3645.7	3246.2	2658.0	1828.1	1065.0	205.0	7.3	0.8	0.0
36°	3823.9	3731.1	3485.4	3087.6	2418.0	1592.2	891.7	178.2	5.7	0.8	0.0
37°	3605.0	3542.4	3269.8	2845.9	2158.4	1366.0	765.6	153.8	4.1	0.8	0.0
38°	3378.0	3320.2	3054.2	2602.7	1868.8	1142.3	641.1	130.2	3.3	0.0	0.0
39°	3143.7	3047.7	2784.9	2291.1	1565.3	956.8	539.4	109.0	1.6	0.0	0.0
40°	2776.0	2702.7	2422.0	1916.8	1295.2	775.3	459.7	83.0	1.6	0.0	0.0
42.5°	1840.3	1772.0	1477.5	1039.8	688.3	453.2	303.5	32.5	0.0	0.8	0.0
45°	948.6	905.5	735.5	544.3	390.5	278.2	195.3	20.3	0.0	0.8	0.8
47.5°	376.7	369.4	333.6	288.0	222.1	165.2	106.6	8.9	0.0	0.8	0.8
50°	101.7	102.5	96.0	88.7	80.5	75.7	44.7	2.4	0.0	1.6	0.8
52.5°	43.1	43.9	42.3	39.9	35.8	26.8	17.9	0.8	0.8	1.6	1.6
55°	8.9	9.8	10.6	11.4	13.0	11.4	7.3	0.0	0.8	1.6	1.6
57.5°	1.6	1.6	1.6	1.6	2.4	2.4	1.6	0.0	0.8	1.6	2.4
60°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	1.6	2.4	2.4
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	3.3
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	3.3	3.3
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.3	3.3
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.3	3.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.3	2.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	2.4	2.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	2.4	2.4
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	2.4	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	2.4	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	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°	37.4	37.4	37.4
2.5°	26.0	23.6	22.8
5°	17.9	15.5	13.8
7.5°	12.2	9.8	8.9
10°	8.1	6.5	5.7
12.5°	5.7	3.3	3.3
15°	3.3	2.4	2.4
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	2.4
47.5°	1.6	2.4	3.3
50°	1.6	3.3	3.3
52.5°	2.4	3.3	4.1
55°	2.4	4.1	4.1
57.5°	3.3	4.1	4.9
60°	3.3	4.1	4.1
62.5°	3.3	4.9	4.9
65°	4.1	4.9	4.9
67.5°	4.1	4.9	4.9
70°	3.3	4.1	4.9
72.5°	3.3	4.1	4.1
75°	2.4	3.3	3.3
77.5°	2.4	2.4	3.3
80°	1.6	2.4	2.4

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CATALOG NUMBER: P3A13R259727DE010 E3CA301MW

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)