

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: P1344599

Luminaire Tested: P3A13R259840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344599
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: P3A13R259840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

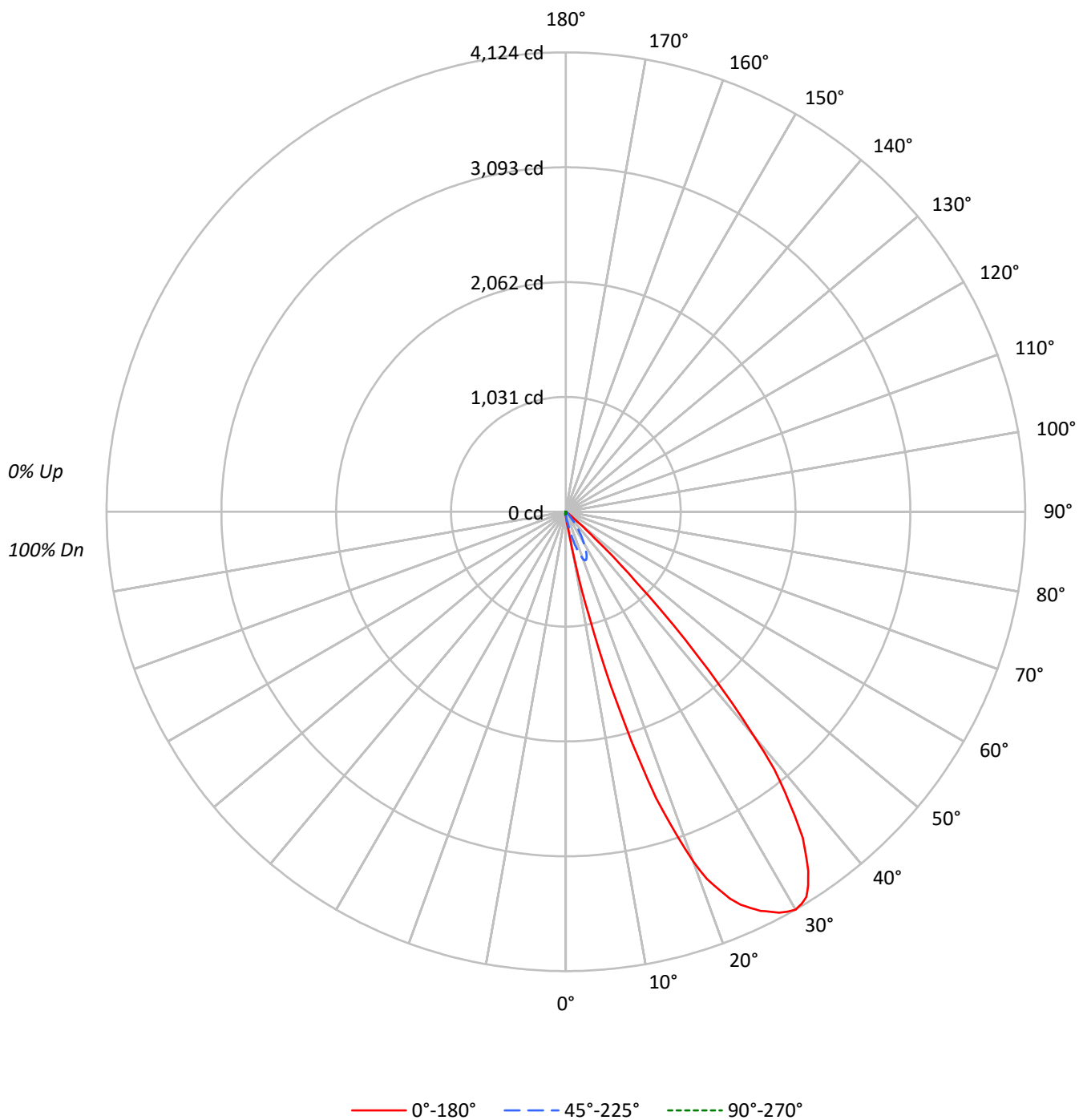
Lumens per Lamp: N/A
Luminaire Lumens: 825.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	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°	7763	7763	7763	7763	7763
5°	19480	14396	7286	3720	2884
10°	85191	24515	5990	1715	1202
15°	405042	66062	4200	704	522
20°	779728	105803	2684	187	187
25°	949627	106724	1500	0	0
30°	1044085	81658	582	0	0
35°	1006148	51932	214	0	0
40°	751780	22471	0	0	229
45°	278323	5954	248	248	713
50°	32818	785	512	512	1058
55°	3250	0	573	879	1453
60°	351	0	1009	1360	1667
65°	415	415	1608	1972	2387
70°	513	513	1988	1988	2949
75°	678	678	1949	1949	2626
80°	0	1010	2904	1894	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 278323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.6
10°-20°	96.2	11.7
20°-30°	301.9	36.6
30°-40°	317.8	38.5
40°-50°	93.4	11.3
50°-60°	5.0	0.6
60°-70°	2.4	0.3
70°-80°	2.1	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°	403.2	48.9
0°-40°	721.0	87.4
0°-60°	819.4	99.3
0°-90°	825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	825.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	88	65	33	17	13	16
15°	1784	291	18	3	2	562
25°	3925	441	6	0	0	1800
35°	3759	194	1	0	0	2268
45°	898	19	1	1	2	816
55°	8	0	2	2	4	22
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°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
2.5°	54.7	55.4	53.1	54.7	53.1	52.3	51.6	47.7	41.6	35.4	29.2
5°	88.5	88.5	84.7	83.9	82.4	79.3	76.2	65.4	47.0	33.1	23.1
7.5°	138.6	137.8	136.2	132.4	124.7	117.0	109.3	85.4	51.6	30.8	17.7
10°	382.6	377.2	370.2	328.7	281.7	240.2	204.0	110.1	55.4	26.9	13.1
12.5°	950.6	919.8	846.7	763.6	657.4	545.7	436.4	179.3	57.0	22.3	9.2
15°	1784.2	1720.4	1606.4	1440.2	1223.1	979.1	771.3	291.0	55.4	18.5	6.9
17.5°	2694.1	2632.5	2474.7	2222.2	1902.8	1527.9	1160.0	385.6	51.6	15.4	4.6
20°	3341.4	3276.0	3128.2	2860.3	2514.7	2015.2	1527.2	453.4	48.5	11.5	2.3
21°	3530.8	3465.3	3309.1	3050.5	2687.1	2186.0	1644.9	464.9	46.2	10.0	1.5
22°	3650.9	3612.4	3444.6	3193.6	2823.4	2323.1	1745.8	470.3	44.6	9.2	1.5
23°	3771.7	3714.0	3556.9	3292.2	2927.3	2424.7	1820.4	466.5	43.1	7.7	0.8
24°	3861.0	3812.5	3630.1	3368.4	2999.7	2487.0	1864.3	456.5	40.8	6.9	0.8
25°	3924.9	3880.2	3690.1	3419.9	3048.2	2520.9	1878.2	441.1	38.5	6.2	0.8
26°	3985.7	3937.2	3740.1	3450.0	3073.6	2531.7	1865.1	424.1	36.2	5.4	0.0
27°	4029.6	3980.3	3774.8	3467.7	3075.1	2518.6	1829.7	401.0	33.9	4.6	0.0
28°	4076.5	4019.6	3798.6	3477.7	3065.9	2487.8	1778.9	376.4	32.3	3.8	0.0
29°	4105.0	4051.1	3823.3	3488.4	3046.6	2436.2	1705.0	347.2	28.5	2.3	0.0
30°	4123.5	4059.6	3821.0	3476.9	3021.2	2380.8	1616.4	322.5	24.6	2.3	0.0
31°	4108.1	4041.1	3796.3	3444.6	2980.4	2308.4	1525.6	291.7	20.0	1.5	0.0
32°	4075.0	3995.7	3753.2	3388.4	2907.3	2215.3	1431.7	266.3	14.6	1.5	0.0
33°	3994.2	3927.2	3675.5	3312.9	2811.8	2089.1	1309.3	241.7	10.0	0.8	0.0
34°	3892.6	3825.6	3569.3	3212.1	2684.1	1925.9	1160.8	216.3	8.5	0.8	0.0
35°	3758.6	3692.4	3449.2	3071.2	2514.7	1729.6	1007.6	194.0	6.9	0.8	0.0
36°	3617.8	3530.0	3297.5	2921.1	2287.7	1506.4	843.6	168.6	5.4	0.8	0.0
37°	3410.7	3351.4	3093.6	2692.5	2042.1	1292.4	724.3	145.5	3.8	0.8	0.0
38°	3195.9	3141.3	2889.6	2462.4	1768.1	1080.7	606.6	123.2	3.1	0.0	0.0
39°	2974.3	2883.4	2634.8	2167.6	1481.0	905.2	510.3	103.1	1.5	0.0	0.0
40°	2626.3	2557.1	2291.5	1813.5	1225.4	733.6	434.9	78.5	1.5	0.0	0.0
42.5°	1741.1	1676.5	1397.8	983.7	651.2	428.7	287.1	30.8	0.0	0.8	0.0
45°	897.5	856.7	695.8	515.0	369.5	263.2	184.7	19.2	0.0	0.8	0.8
47.5°	356.4	349.5	315.6	272.5	210.1	156.3	100.8	8.5	0.0	0.8	0.8
50°	96.2	97.0	90.8	83.9	76.2	71.6	42.3	2.3	0.0	1.5	0.8
52.5°	40.8	41.6	40.0	37.7	33.9	25.4	16.9	0.8	0.8	1.5	1.5
55°	8.5	9.2	10.0	10.8	12.3	10.8	6.9	0.0	0.8	1.5	1.5
57.5°	1.5	1.5	1.5	1.5	2.3	2.3	1.5	0.0	0.8	1.5	2.3
60°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	1.5	2.3	2.3
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	3.1
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	3.1	3.1
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	3.1
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	3.1
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	2.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	2.3	2.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5	2.3	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5	2.3	1.5



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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	1.5	2.3	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.3	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	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):

	135°	157.5°	180°
0°	35.4	35.4	35.4
2.5°	24.6	22.3	21.6
5°	16.9	14.6	13.1
7.5°	11.5	9.2	8.5
10°	7.7	6.2	5.4
12.5°	5.4	3.1	3.1
15°	3.1	2.3	2.3
17.5°	1.5	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	1.5
45°	0.8	1.5	2.3
47.5°	1.5	2.3	3.1
50°	1.5	3.1	3.1
52.5°	2.3	3.1	3.8
55°	2.3	3.8	3.8
57.5°	3.1	3.8	4.6
60°	3.1	3.8	3.8
62.5°	3.1	4.6	4.6
65°	3.8	4.6	4.6
67.5°	3.8	4.6	4.6
70°	3.1	3.8	4.6
72.5°	3.1	3.8	3.8
75°	2.3	3.1	3.1
77.5°	2.3	2.3	3.1
80°	1.5	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	1.5	1.5	1.5
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)