

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: P1343987

Luminaire Tested: P3A13R209727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

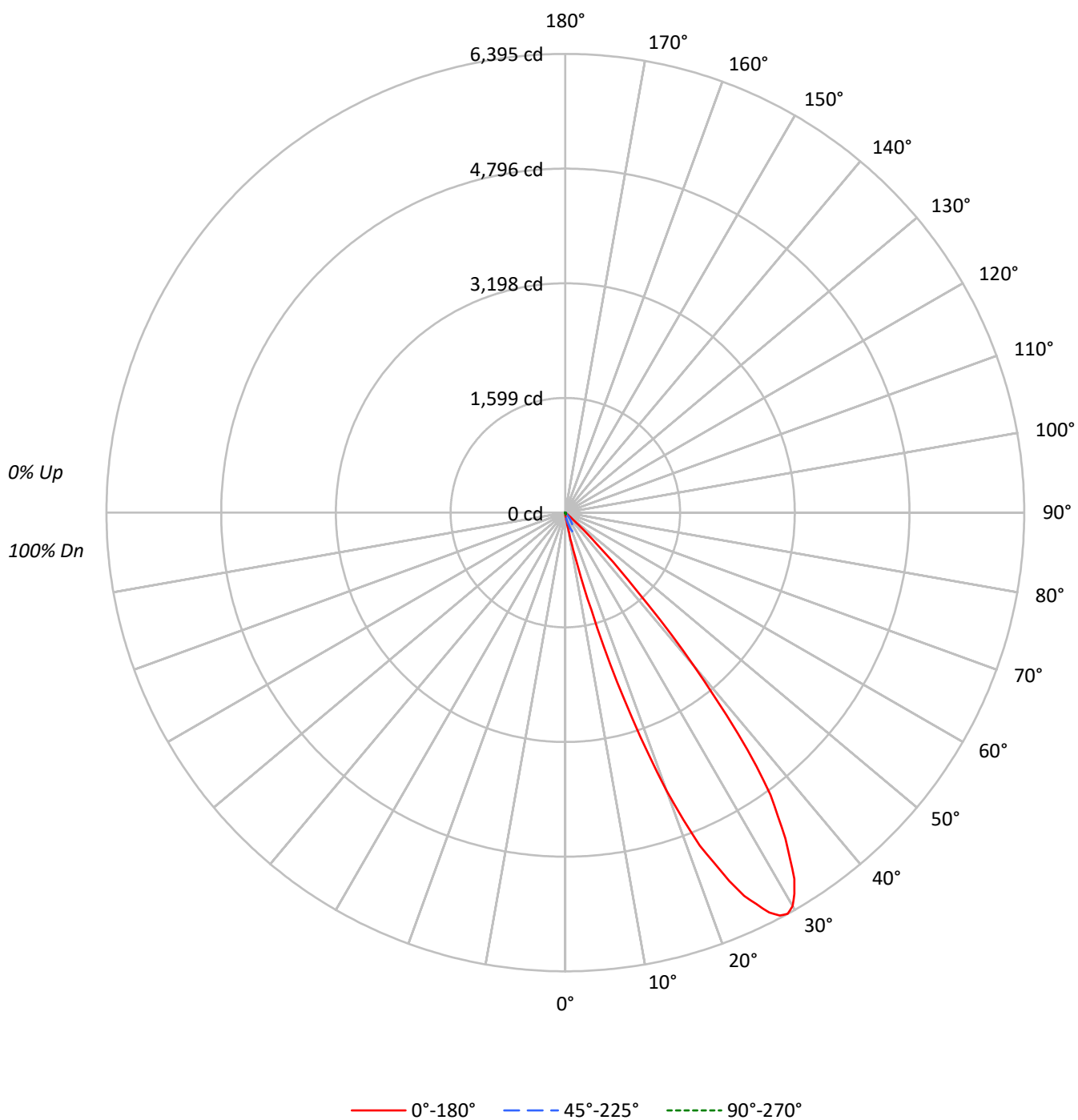
Lumens per Lamp: N/A
Luminaire Lumens: 897.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6776	6776	6776	6776	6776
5°	15584	11644	6449	3940	3412
10°	49097	20285	5255	2182	1625
15°	318118	37503	3882	749	182
20°	960133	64196	2660	0	0
25°	1425929	64770	1573	0	0
30°	1603513	49248	608	0	0
35°	1383541	29419	428	0	0
40°	796693	10019	0	0	0
45°	194315	4031	248	0	248
50°	23334	1126	273	273	819
55°	3097	0	612	612	1262
60°	351	0	1053	1053	1798
65°	415	415	1712	1712	2542
70°	513	513	2116	2116	2629
75°	0	678	2796	2033	2796
80°	0	1010	3031	2020	3031
85°	0	2013	6038	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 195586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	83.1	9.3
20°-30°	362.3	40.4
30°-40°	364.9	40.7
40°-50°	73.2	8.2
50°-60°	3.7	0.4
60°-70°	2.4	0.3
70°-80°	2.1	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°	449.6	50.1
0°-40°	814.5	90.8
0°-60°	891.3	99.4
0°-90°	897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	897.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	71	53	29	18	16	11
15°	1401	165	17	3	1	549
25°	5894	268	6	0	0	2657
35°	5168	110	2	0	0	3075
45°	627	13	1	0	1	682
55°	8	0	2	2	3	15
65°	1	1	3	3	5	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	46.4	46.4	45.6	45.6	44.8	45.6	43.9	44.8	44.8	43.9	39.9
5°	70.8	72.4	71.6	71.6	70.8	71.6	70.0	68.4	66.7	66.7	52.9
7.5°	116.4	115.6	113.9	114.7	112.3	110.7	109.0	108.2	103.4	100.9	69.2
10°	220.5	225.4	221.4	220.5	205.9	205.1	195.3	181.5	169.3	162.8	91.1
12.5°	607.1	633.1	592.4	572.9	561.5	517.6	498.9	450.8	404.5	369.5	115.6
15°	1401.3	1465.6	1383.4	1389.1	1320.8	1195.5	1085.6	991.2	879.7	767.4	165.2
17.5°	2745.7	2693.7	2648.9	2573.2	2434.1	2250.1	2013.3	1773.3	1565.7	1348.5	230.3
20°	4114.5	4068.1	3966.4	3801.2	3623.8	3351.2	3069.6	2709.1	2360.0	2032.9	275.1
21°	4585.7	4570.3	4403.4	4301.7	4028.3	3767.9	3443.2	3057.4	2664.4	2277.0	282.4
22°	5006.4	4913.7	4824.2	4673.6	4401.8	4118.6	3757.3	3351.2	2924.8	2494.3	283.2
23°	5297.8	5255.5	5170.8	5000.7	4730.6	4397.7	4016.9	3592.1	3142.9	2648.1	280.8
24°	5620.0	5566.3	5442.6	5244.1	4971.5	4642.7	4208.1	3786.6	3298.3	2777.5	274.2
25°	5893.5	5809.7	5663.2	5449.1	5151.3	4811.9	4374.9	3911.9	3406.5	2864.5	267.7
26°	6070.9	6025.3	5837.3	5604.6	5285.6	4935.6	4489.7	4007.9	3476.5	2904.4	257.2
27°	6255.6	6171.8	5987.1	5719.3	5373.5	5016.2	4554.8	4054.3	3500.9	2906.0	244.1
28°	6361.4	6270.3	6061.1	5779.5	5430.4	5061.0	4592.2	4069.0	3496.0	2880.8	228.7
29°	6394.8	6280.0	6075.8	5789.3	5444.3	5064.2	4586.5	4047.8	3452.9	2819.0	210.8
30°	6332.9	6215.7	6022.1	5742.9	5400.3	5023.5	4533.6	3977.8	3376.4	2730.3	194.5
31°	6197.8	6098.6	5911.4	5631.4	5302.7	4928.3	4414.0	3863.1	3246.2	2611.5	175.8
32°	6019.6	5922.0	5738.0	5485.0	5150.5	4772.9	4250.4	3684.0	3093.2	2434.1	157.1
33°	5751.9	5695.7	5530.5	5288.8	4954.4	4550.7	4030.7	3470.0	2875.1	2237.1	140.8
34°	5480.9	5410.1	5294.5	5030.0	4670.3	4267.5	3744.3	3174.6	2609.0	2016.6	125.3
35°	5168.4	5126.1	4944.6	4733.0	4371.7	3959.9	3439.9	2887.3	2299.0	1770.8	109.9
36°	4865.7	4800.6	4593.9	4370.1	4019.3	3574.2	3060.7	2541.5	2031.2	1540.5	93.6
37°	4426.2	4326.9	4179.6	3943.6	3533.5	3154.3	2685.5	2203.7	1701.6	1291.5	75.7
38°	3909.5	3863.1	3658.8	3421.2	3081.8	2722.1	2258.3	1849.7	1403.8	1078.3	57.8
39°	3299.9	3299.1	3103.8	2932.1	2600.1	2276.2	1857.9	1501.4	1158.8	868.3	44.8
40°	2783.2	2687.1	2566.7	2351.0	2096.3	1821.3	1455.1	1175.1	899.2	699.9	35.0
42.5°	1459.1	1451.0	1380.2	1218.2	1075.8	913.9	726.7	605.5	473.6	385.7	22.0
45°	626.6	630.7	581.9	557.4	502.1	434.6	367.0	306.0	262.0	212.4	13.0
47.5°	158.7	152.2	150.6	156.2	156.2	151.4	135.9	127.8	118.0	108.2	7.3
50°	68.4	66.7	65.1	65.1	61.0	58.6	54.5	49.6	45.6	40.7	3.3
52.5°	25.2	26.0	26.9	26.0	26.0	25.2	25.2	24.4	22.0	19.5	1.6
55°	8.1	8.1	8.1	9.0	9.0	9.8	9.8	9.8	9.8	9.0	0.0
57.5°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	35.8	31.7	26.9	22.8	22.0	21.2
5°	39.9	29.3	22.0	17.9	16.3	15.5
7.5°	43.1	26.9	17.9	13.0	11.4	10.6
10°	44.8	23.6	14.6	9.8	7.3	7.3
12.5°	45.6	20.3	10.6	6.5	4.1	4.1
15°	44.8	17.1	8.1	3.3	0.8	0.8
17.5°	40.7	13.8	4.9	0.8	0.0	0.0
20°	35.0	11.4	3.3	0.0	0.0	0.0
21°	33.4	9.8	2.4	0.0	0.0	0.0
22°	30.9	9.0	1.6	0.0	0.0	0.0
23°	28.5	8.1	1.6	0.0	0.0	0.0
24°	26.0	7.3	0.8	0.0	0.0	0.0
25°	24.4	6.5	0.8	0.0	0.0	0.0
26°	22.8	5.7	0.8	0.0	0.0	0.0
27°	20.3	4.9	0.0	0.0	0.0	0.0
28°	18.7	4.1	0.0	0.0	0.0	0.0
29°	16.3	3.3	0.0	0.0	0.0	0.0
30°	13.8	2.4	0.0	0.0	0.0	0.0
31°	11.4	2.4	0.0	0.0	0.0	0.0
32°	9.8	1.6	0.0	0.0	0.0	0.0
33°	8.1	1.6	0.0	0.0	0.0	0.0
34°	7.3	1.6	0.0	0.0	0.0	0.0
35°	6.5	1.6	0.0	0.0	0.0	0.0
36°	4.9	0.8	0.0	0.0	0.0	0.0
37°	4.1	0.8	0.0	0.0	0.0	0.0
38°	3.3	0.8	0.0	0.0	0.0	0.0
39°	2.4	0.0	0.0	0.0	0.0	0.0
40°	2.4	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.6
50°	0.0	0.8	0.8	0.8	1.6	2.4
52.5°	0.0	1.6	0.8	0.8	2.4	2.4
55°	0.8	1.6	0.8	1.6	3.3	3.3
57.5°	0.8	1.6	1.6	2.4	3.3	4.1
60°	1.6	2.4	2.4	2.4	4.1	4.1
62.5°	1.6	2.4	3.3	3.3	4.1	4.9
65°	1.6	3.3	3.3	3.3	4.1	4.9
67.5°	2.4	3.3	3.3	3.3	4.1	4.9
70°	2.4	3.3	3.3	3.3	4.1	4.1
72.5°	2.4	3.3	2.4	3.3	3.3	4.1
75°	2.4	3.3	2.4	2.4	3.3	3.3
77.5°	1.6	2.4	2.4	1.6	2.4	2.4
80°	1.6	2.4	1.6	1.6	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.6	2.4	1.6	0.8	1.6	1.6
85°	1.6	2.4	1.6	0.8	0.8	0.8
87.5°	1.6	2.4	1.6	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)