

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: P1343943

Luminaire Tested: P3A13R209035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343943
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: P3A13R209035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

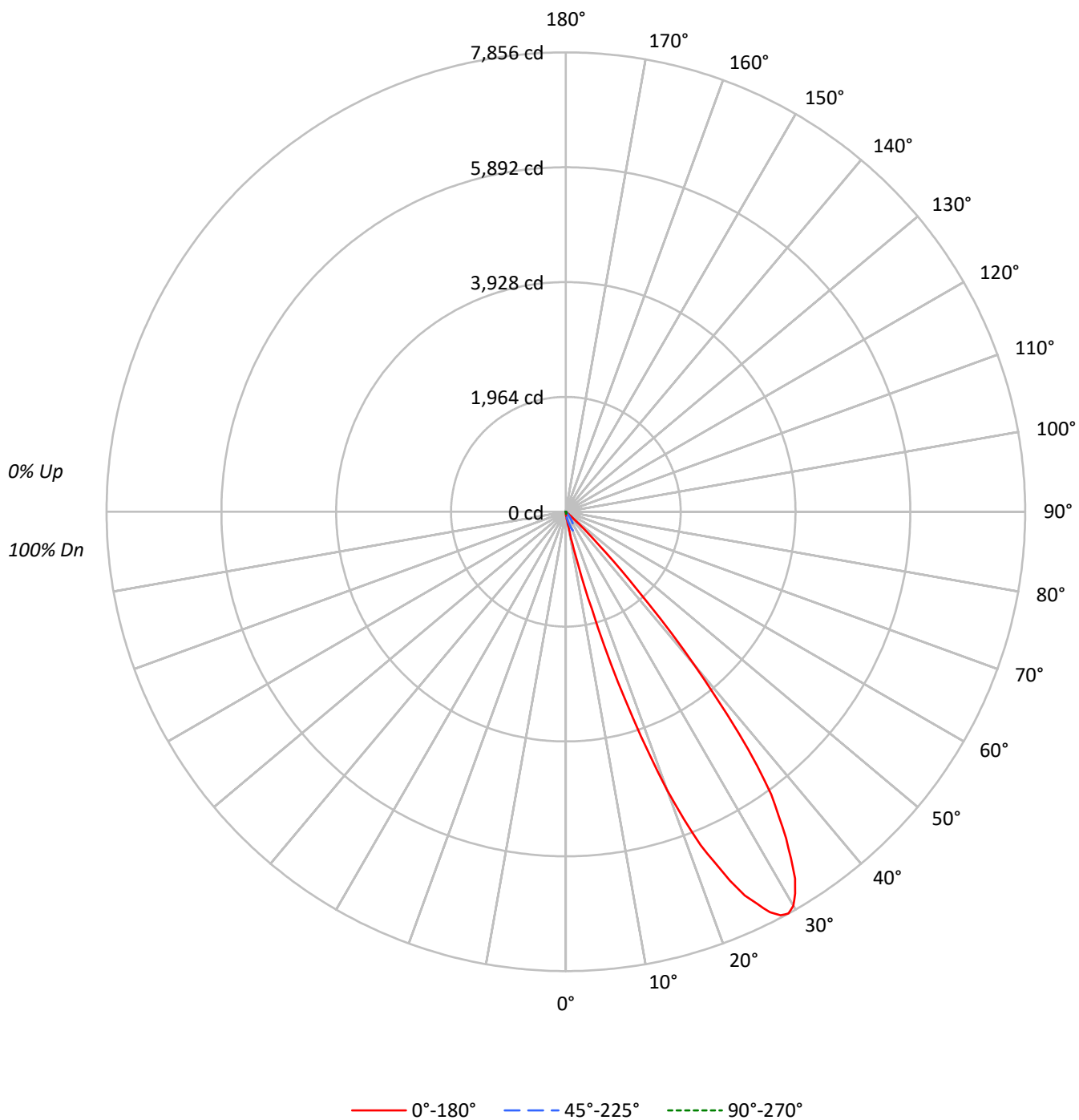
Lumens per Lamp: N/A
Luminaire Lumens: 1102.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	8333	8333	8333	8333	8333
5°	19150	14308	7924	4843	4182
10°	60320	24938	6457	2672	2004
15°	390831	46084	4767	908	227
20°	1179579	78850	3267	0	0
25°	1751811	79577	1936	0	0
30°	1969999	60490	760	0	0
35°	1699739	36138	535	0	0
40°	978748	12309	0	0	0
45°	238722	4962	310	0	310
50°	28656	1365	341	341	1023
55°	3823	0	765	765	1529
60°	439	0	1316	1316	2193
65°	519	519	2075	2075	3113
70°	641	641	2565	2565	3206
75°	0	847	3389	2542	3389
80°	0	1263	3788	2526	3788
85°	0	2516	7548	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 240273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.5
10°-20°	102.1	9.3
20°-30°	445.1	40.4
30°-40°	448.3	40.7
40°-50°	89.9	8.2
50°-60°	4.5	0.4
60°-70°	3.0	0.3
70°-80°	2.6	0.2
80°-90°	1.3	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°	552.4	50.1
0°-40°	1000.6	90.8
0°-60°	1095.1	99.4
0°-90°	1102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	87	65	36	22	19	14
15°	1722	203	21	4	1	674
25°	7240	329	8	0	0	3265
35°	6350	135	2	0	0	3778
45°	770	16	1	0	1	838
55°	10	0	2	2	4	19
65°	1	1	4	4	6	1
75°	0	1	4	3	4	0
85°	0	1	3	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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	57.0	57.0	56.0	56.0	55.0	56.0	54.0	55.0	55.0	54.0	49.0
5°	87.0	89.0	88.0	88.0	87.0	88.0	86.0	84.0	82.0	82.0	65.0
7.5°	143.0	142.0	140.0	141.0	138.0	136.0	134.0	133.0	127.0	124.0	85.0
10°	270.9	276.9	271.9	270.9	252.9	251.9	239.9	222.9	208.0	200.0	112.0
12.5°	745.8	777.8	727.8	703.8	689.8	635.9	612.9	553.9	496.9	453.9	142.0
15°	1721.6	1800.6	1699.6	1706.6	1622.6	1468.7	1333.7	1217.7	1080.8	942.8	203.0
17.5°	3373.2	3309.3	3254.3	3161.3	2990.3	2764.4	2473.4	2178.5	1923.6	1656.6	282.9
20°	5054.9	4997.9	4872.9	4669.9	4452.0	4117.1	3771.2	3328.3	2899.3	2497.4	337.9
21°	5633.7	5614.7	5409.8	5284.8	4948.9	4629.0	4230.0	3756.2	3273.3	2797.4	346.9
22°	6150.6	6036.6	5926.7	5741.7	5407.8	5059.9	4616.0	4117.1	3593.2	3064.3	347.9
23°	6508.5	6456.5	6352.6	6143.6	5811.7	5402.8	4934.9	4413.0	3861.1	3253.3	344.9
24°	6904.4	6838.5	6686.5	6442.6	6107.6	5703.7	5169.8	4652.0	4052.1	3412.2	336.9
25°	7240.4	7137.4	6957.4	6694.5	6328.6	5911.7	5374.8	4805.9	4185.1	3519.2	328.9
26°	7458.3	7402.3	7171.4	6885.5	6493.5	6063.6	5515.8	4923.9	4271.0	3568.2	315.9
27°	7685.3	7582.3	7355.3	7026.4	6601.5	6162.6	5595.7	4980.9	4301.0	3570.2	299.9
28°	7815.2	7703.3	7446.3	7100.4	6671.5	6217.6	5641.7	4998.9	4295.0	3539.2	280.9
29°	7856.2	7715.3	7464.3	7112.4	6688.5	6221.6	5634.7	4972.9	4242.0	3463.2	258.9
30°	7780.3	7636.3	7398.3	7055.4	6634.5	6171.6	5569.7	4886.9	4148.1	3354.2	238.9
31°	7614.3	7492.3	7262.4	6918.4	6514.5	6054.6	5422.8	4745.9	3988.1	3208.3	216.0
32°	7395.3	7275.4	7049.4	6738.5	6327.6	5863.7	5221.8	4526.0	3800.1	2990.3	193.0
33°	7066.4	6997.4	6794.5	6497.5	6086.6	5590.7	4951.9	4263.0	3532.2	2748.4	173.0
34°	6733.5	6646.5	6504.5	6179.6	5737.7	5242.8	4600.0	3900.1	3205.3	2477.4	154.0
35°	6349.6	6297.6	6074.6	5814.7	5370.8	4864.9	4226.0	3547.2	2824.4	2175.5	135.0
36°	5977.7	5897.7	5643.7	5368.8	4937.9	4391.0	3760.2	3122.3	2495.4	1892.6	115.0
37°	5437.8	5315.8	5134.8	4844.9	4341.0	3875.1	3299.3	2707.4	2090.5	1586.6	93.0
38°	4802.9	4745.9	4495.0	4203.1	3786.1	3344.2	2774.4	2272.5	1724.6	1324.7	71.0
39°	4054.1	4053.1	3813.1	3602.2	3194.3	2796.4	2282.5	1844.6	1423.7	1066.8	55.0
40°	3419.2	3301.3	3153.3	2888.4	2575.4	2237.5	1787.6	1443.7	1104.8	859.8	43.0
42.5°	1792.6	1782.6	1695.6	1496.7	1321.7	1122.7	892.8	743.8	581.9	473.9	27.0
45°	769.8	774.8	714.8	684.8	616.9	533.9	450.9	375.9	321.9	260.9	16.0
47.5°	195.0	187.0	185.0	192.0	192.0	186.0	167.0	157.0	145.0	133.0	9.0
50°	84.0	82.0	80.0	80.0	75.0	72.0	67.0	61.0	56.0	50.0	4.0
52.5°	31.0	32.0	33.0	32.0	32.0	31.0	31.0	30.0	27.0	24.0	2.0
55°	10.0	10.0	10.0	11.0	11.0	12.0	12.0	12.0	12.0	11.0	0.0
57.5°	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	0.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0



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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	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	44.0	39.0	33.0	28.0	27.0	26.0
5°	49.0	36.0	27.0	22.0	20.0	19.0
7.5°	53.0	33.0	22.0	16.0	14.0	13.0
10°	55.0	29.0	18.0	12.0	9.0	9.0
12.5°	56.0	25.0	13.0	8.0	5.0	5.0
15°	55.0	21.0	10.0	4.0	1.0	1.0
17.5°	50.0	17.0	6.0	1.0	0.0	0.0
20°	43.0	14.0	4.0	0.0	0.0	0.0
21°	41.0	12.0	3.0	0.0	0.0	0.0
22°	38.0	11.0	2.0	0.0	0.0	0.0
23°	35.0	10.0	2.0	0.0	0.0	0.0
24°	32.0	9.0	1.0	0.0	0.0	0.0
25°	30.0	8.0	1.0	0.0	0.0	0.0
26°	28.0	7.0	1.0	0.0	0.0	0.0
27°	25.0	6.0	0.0	0.0	0.0	0.0
28°	23.0	5.0	0.0	0.0	0.0	0.0
29°	20.0	4.0	0.0	0.0	0.0	0.0
30°	17.0	3.0	0.0	0.0	0.0	0.0
31°	14.0	3.0	0.0	0.0	0.0	0.0
32°	12.0	2.0	0.0	0.0	0.0	0.0
33°	10.0	2.0	0.0	0.0	0.0	0.0
34°	9.0	2.0	0.0	0.0	0.0	0.0
35°	8.0	2.0	0.0	0.0	0.0	0.0
36°	6.0	1.0	0.0	0.0	0.0	0.0
37°	5.0	1.0	0.0	0.0	0.0	0.0
38°	4.0	1.0	0.0	0.0	0.0	0.0
39°	3.0	0.0	0.0	0.0	0.0	0.0
40°	3.0	0.0	0.0	0.0	0.0	0.0
42.5°	1.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.0	0.0	0.0	1.0	1.0
47.5°	0.0	1.0	0.0	0.0	1.0	2.0
50°	0.0	1.0	1.0	1.0	2.0	3.0
52.5°	0.0	2.0	1.0	1.0	3.0	3.0
55°	1.0	2.0	1.0	2.0	4.0	4.0
57.5°	1.0	2.0	2.0	3.0	4.0	5.0
60°	2.0	3.0	3.0	3.0	5.0	5.0
62.5°	2.0	3.0	4.0	4.0	5.0	6.0
65°	2.0	4.0	4.0	4.0	5.0	6.0
67.5°	3.0	4.0	4.0	4.0	5.0	6.0
70°	3.0	4.0	4.0	4.0	5.0	5.0
72.5°	3.0	4.0	3.0	4.0	4.0	5.0
75°	3.0	4.0	3.0	3.0	4.0	4.0
77.5°	2.0	3.0	3.0	2.0	3.0	3.0
80°	2.0	3.0	2.0	2.0	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.0	3.0	2.0	1.0	2.0	2.0
85°	2.0	3.0	2.0	1.0	1.0	1.0
87.5°	2.0	3.0	2.0	1.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)