

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: P1334460

Luminaire Tested: P3A02R209827DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334460
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: P3A02R209827DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

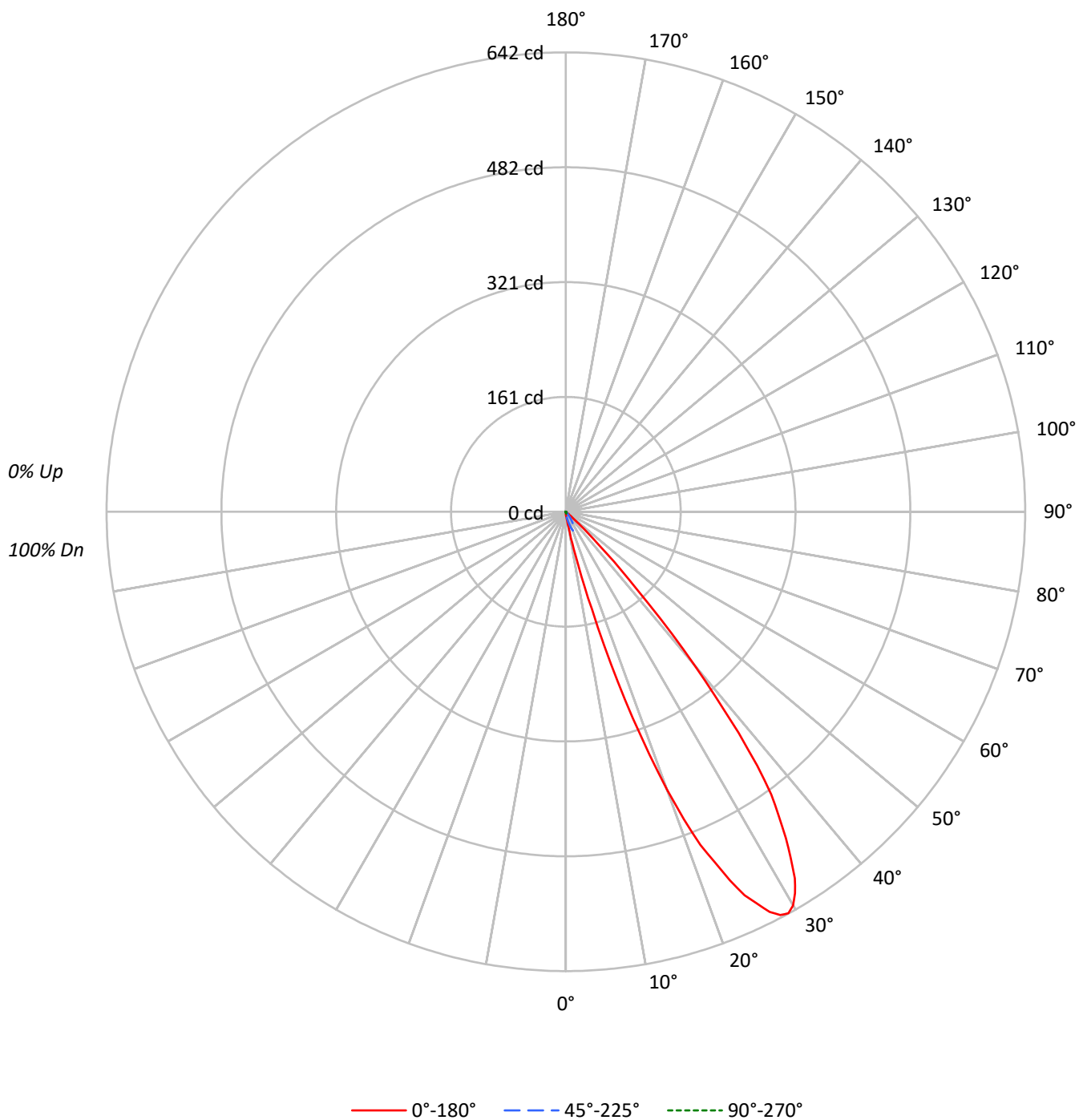
Lumens per Lamp: N/A
Luminaire Lumens: 90.0 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	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	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	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°	680	680	680	680	680
5°	1563	1167	638	396	352
10°	4921	2026	534	223	156
15°	31918	3768	386	68	23
20°	96328	6441	257	0	0
25°	143065	6508	169	0	0
30°	160886	4937	51	0	0
35°	138825	2945	54	0	0
40°	79921	1002	0	0	0
45°	19506	403	31	0	31
50°	2354	102	34	34	68
55°	306	0	76	76	115
60°	44	0	88	88	175
65°	52	52	156	156	259
70°	64	64	192	192	256
75°	0	85	254	169	254
80°	0	126	253	253	253
85°	0	252	503	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 19630 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	8.3	9.3
20°-30°	36.4	40.4
30°-40°	36.6	40.7
40°-50°	7.3	8.2
50°-60°	0.4	0.4
60°-70°	0.2	0.3
70°-80°	0.2	0.2
80°-90°	0.1	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°	45.1	50.1
0°-40°	81.7	90.8
0°-60°	89.4	99.4
0°-90°	90.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	90.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	7	5	3	2	2	1
15°	141	17	2	0	0	55
25°	591	27	1	0	0	267
35°	519	11	0	0	0	309
45°	63	1	0	0	0	68
55°	1	0	0	0	0	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	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°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
2.5°	4.7	4.7	4.6	4.6	4.5	4.6	4.4	4.5	4.5	4.4	4.0
5°	7.1	7.3	7.2	7.2	7.1	7.2	7.0	6.9	6.7	6.7	5.3
7.5°	11.7	11.6	11.4	11.5	11.3	11.1	10.9	10.9	10.4	10.1	6.9
10°	22.1	22.6	22.2	22.1	20.7	20.6	19.6	18.2	17.0	16.3	9.1
12.5°	60.9	63.5	59.4	57.5	56.3	51.9	50.1	45.2	40.6	37.1	11.6
15°	140.6	147.1	138.8	139.4	132.5	119.9	108.9	99.5	88.3	77.0	16.6
17.5°	275.5	270.3	265.8	258.2	244.2	225.8	202.0	177.9	157.1	135.3	23.1
20°	412.8	408.2	398.0	381.4	363.6	336.2	308.0	271.8	236.8	204.0	27.6
21°	460.1	458.6	441.8	431.6	404.2	378.0	345.5	306.8	267.3	228.5	28.3
22°	502.3	493.0	484.0	468.9	441.7	413.2	377.0	336.2	293.5	250.3	28.4
23°	531.6	527.3	518.8	501.7	474.6	441.2	403.0	360.4	315.3	265.7	28.2
24°	563.9	558.5	546.1	526.2	498.8	465.8	422.2	379.9	330.9	278.7	27.5
25°	591.3	582.9	568.2	546.7	516.9	482.8	439.0	392.5	341.8	287.4	26.9
26°	609.1	604.5	585.7	562.3	530.3	495.2	450.5	402.1	348.8	291.4	25.8
27°	627.7	619.2	600.7	573.8	539.1	503.3	457.0	406.8	351.3	291.6	24.5
28°	638.3	629.1	608.1	579.9	544.9	507.8	460.8	408.3	350.8	289.0	22.9
29°	641.6	630.1	609.6	580.9	546.2	508.1	460.2	406.1	346.4	282.8	21.1
30°	635.4	623.7	604.2	576.2	541.8	504.0	454.9	399.1	338.8	273.9	19.5
31°	621.9	611.9	593.1	565.0	532.0	494.5	442.9	387.6	325.7	262.0	17.6
32°	604.0	594.2	575.7	550.3	516.8	478.9	426.5	369.6	310.4	244.2	15.8
33°	577.1	571.5	554.9	530.7	497.1	456.6	404.4	348.2	288.5	224.5	14.1
34°	549.9	542.8	531.2	504.7	468.6	428.2	375.7	318.5	261.8	202.3	12.6
35°	518.6	514.3	496.1	474.9	438.6	397.3	345.1	289.7	230.7	177.7	11.0
36°	488.2	481.7	460.9	438.5	403.3	358.6	307.1	255.0	203.8	154.6	9.4
37°	444.1	434.1	419.4	395.7	354.5	316.5	269.4	221.1	170.7	129.6	7.6
38°	392.3	387.6	367.1	343.3	309.2	273.1	226.6	185.6	140.8	108.2	5.8
39°	331.1	331.0	311.4	294.2	260.9	228.4	186.4	150.6	116.3	87.1	4.5
40°	279.2	269.6	257.5	235.9	210.3	182.7	146.0	117.9	90.2	70.2	3.5
42.5°	146.4	145.6	138.5	122.2	107.9	91.7	72.9	60.7	47.5	38.7	2.2
45°	62.9	63.3	58.4	55.9	50.4	43.6	36.8	30.7	26.3	21.3	1.3
47.5°	15.9	15.3	15.1	15.7	15.7	15.2	13.6	12.8	11.8	10.9	0.7
50°	6.9	6.7	6.5	6.5	6.1	5.9	5.5	5.0	4.6	4.1	0.3
52.5°	2.5	2.6	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	0.2
55°	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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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	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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°	3.1	3.1	3.1	3.1	3.1	3.1
2.5°	3.6	3.2	2.7	2.3	2.2	2.1
5°	4.0	2.9	2.2	1.8	1.6	1.6
7.5°	4.3	2.7	1.8	1.3	1.1	1.1
10°	4.5	2.4	1.5	1.0	0.7	0.7
12.5°	4.6	2.0	1.1	0.7	0.4	0.4
15°	4.5	1.7	0.8	0.3	0.1	0.1
17.5°	4.1	1.4	0.5	0.1	0.0	0.0
20°	3.5	1.1	0.3	0.0	0.0	0.0
21°	3.3	1.0	0.2	0.0	0.0	0.0
22°	3.1	0.9	0.2	0.0	0.0	0.0
23°	2.9	0.8	0.2	0.0	0.0	0.0
24°	2.6	0.7	0.1	0.0	0.0	0.0
25°	2.4	0.7	0.1	0.0	0.0	0.0
26°	2.3	0.6	0.1	0.0	0.0	0.0
27°	2.0	0.5	0.0	0.0	0.0	0.0
28°	1.9	0.4	0.0	0.0	0.0	0.0
29°	1.6	0.3	0.0	0.0	0.0	0.0
30°	1.4	0.2	0.0	0.0	0.0	0.0
31°	1.1	0.2	0.0	0.0	0.0	0.0
32°	1.0	0.2	0.0	0.0	0.0	0.0
33°	0.8	0.2	0.0	0.0	0.0	0.0
34°	0.7	0.2	0.0	0.0	0.0	0.0
35°	0.7	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.1	0.0	0.0	0.0	0.0
37°	0.4	0.1	0.0	0.0	0.0	0.0
38°	0.3	0.1	0.0	0.0	0.0	0.0
39°	0.2	0.0	0.0	0.0	0.0	0.0
40°	0.2	0.0	0.0	0.0	0.0	0.0
42.5°	0.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.1	0.0	0.0	0.1	0.1
47.5°	0.0	0.1	0.0	0.0	0.1	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.2
52.5°	0.0	0.2	0.1	0.1	0.2	0.2
55°	0.1	0.2	0.1	0.2	0.3	0.3
57.5°	0.1	0.2	0.2	0.2	0.3	0.4
60°	0.2	0.2	0.2	0.2	0.4	0.4
62.5°	0.2	0.2	0.3	0.3	0.4	0.5
65°	0.2	0.3	0.3	0.3	0.4	0.5
67.5°	0.2	0.3	0.3	0.3	0.4	0.5
70°	0.2	0.3	0.3	0.3	0.4	0.4
72.5°	0.2	0.3	0.2	0.3	0.3	0.4
75°	0.2	0.3	0.2	0.2	0.3	0.3
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.2	0.2	0.1	0.2	0.2
85°	0.2	0.2	0.2	0.1	0.1	0.1
87.5°	0.2	0.2	0.2	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)