

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: P1334339

Luminaire Tested: P3A02R209030DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334339
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: P3A02R209030DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

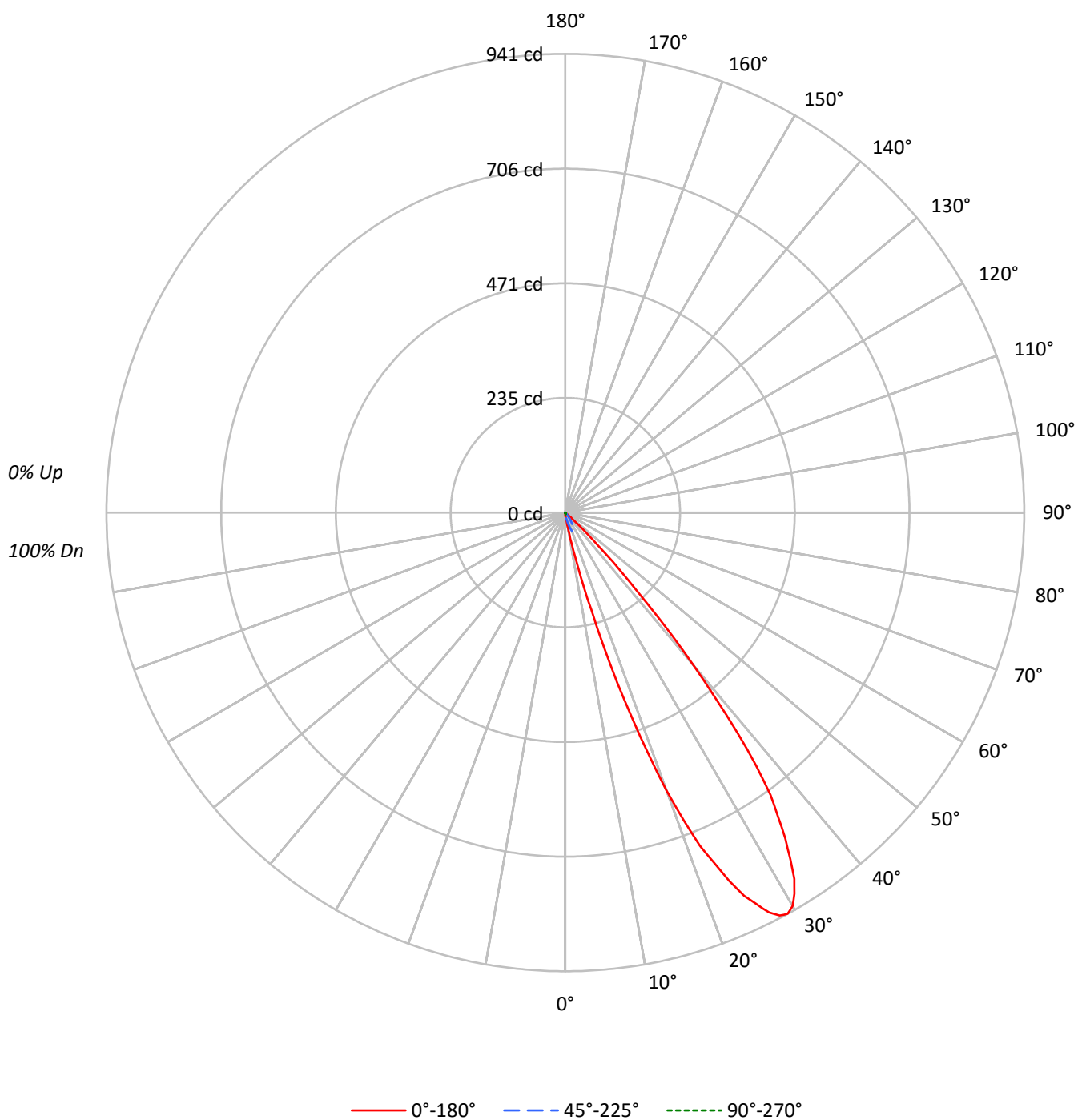
Lumens per Lamp: N/A
Luminaire Lumens: 132.0 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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°	1009	1009	1009	1009	1009
5°	2289	1717	947	572	506
10°	7237	2984	779	312	245
15°	46811	5516	568	114	23
20°	141296	9451	397	0	0
25°	209843	9533	242	0	0
30°	235960	7242	101	0	0
35°	203607	4337	54	0	0
40°	117248	1460	0	0	0
45°	28592	589	31	0	31
50°	3446	171	34	34	136
55°	459	0	76	76	191
60°	44	0	175	175	263
65°	52	52	259	259	363
70°	64	64	321	321	385
75°	0	85	424	339	424
80°	0	126	505	253	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 28778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	12.2	9.3
20°-30°	53.3	40.4
30°-40°	53.7	40.7
40°-50°	10.8	8.2
50°-60°	0.5	0.4
60°-70°	0.4	0.3
70°-80°	0.3	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°	66.2	50.1
0°-40°	119.9	90.8
0°-60°	131.2	99.4
0°-90°	132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	132.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	10	8	4	3	2	2
15°	206	24	2	0	0	81
25°	867	39	1	0	0	391
35°	761	16	0	0	0	453
45°	92	2	0	0	0	100
55°	1	0	0	0	0	2
65°	0	0	0	0	1	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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	6.8	6.8	6.7	6.7	6.6	6.7	6.5	6.6	6.6	6.5	5.9
5°	10.4	10.7	10.5	10.5	10.4	10.5	10.3	10.1	9.8	9.8	7.8
7.5°	17.1	17.0	16.8	16.9	16.5	16.3	16.0	15.9	15.2	14.8	10.2
10°	32.5	33.2	32.6	32.5	30.3	30.2	28.7	26.7	24.9	24.0	13.4
12.5°	89.3	93.2	87.2	84.3	82.6	76.2	73.4	66.3	59.5	54.4	17.0
15°	206.2	215.7	203.6	204.4	194.4	175.9	159.8	145.9	129.5	112.9	24.3
17.5°	404.1	396.4	389.8	378.7	358.2	331.1	296.3	260.9	230.4	198.4	33.9
20°	605.5	598.7	583.7	559.4	533.3	493.2	451.7	398.7	347.3	299.1	40.5
21°	674.8	672.5	648.0	633.0	592.8	554.5	506.7	449.9	392.1	335.1	41.6
22°	736.7	723.1	709.9	687.8	647.8	606.1	552.9	493.2	430.4	367.0	41.7
23°	779.6	773.4	760.9	735.9	696.1	647.2	591.1	528.6	462.5	389.7	41.3
24°	827.0	819.1	800.9	771.7	731.6	683.2	619.3	557.2	485.4	408.7	40.4
25°	867.3	854.9	833.4	801.9	758.1	708.1	643.8	575.7	501.3	421.5	39.4
26°	893.4	886.7	859.0	824.8	777.8	726.3	660.7	589.8	511.6	427.4	37.8
27°	920.6	908.2	881.0	841.6	790.7	738.2	670.3	596.6	515.2	427.6	35.9
28°	936.1	922.7	891.9	850.5	799.1	744.8	675.8	598.8	514.5	423.9	33.7
29°	941.0	924.2	894.1	851.9	801.2	745.2	674.9	595.7	508.1	414.8	31.0
30°	931.9	914.7	886.2	845.1	794.7	739.2	667.2	585.4	496.9	401.8	28.6
31°	912.1	897.4	869.9	828.7	780.3	725.2	649.6	568.5	477.7	384.3	25.9
32°	885.8	871.5	844.4	807.2	757.9	702.4	625.5	542.1	455.2	358.2	23.1
33°	846.4	838.2	813.9	778.3	729.1	669.7	593.1	510.6	423.1	329.2	20.7
34°	806.6	796.1	779.1	740.2	687.3	628.0	551.0	467.2	383.9	296.8	18.4
35°	760.6	754.3	727.6	696.5	643.3	582.7	506.2	424.9	338.3	260.6	16.2
36°	716.0	706.4	676.0	643.1	591.5	526.0	450.4	374.0	298.9	226.7	13.8
37°	651.3	636.7	615.1	580.3	520.0	464.2	395.2	324.3	250.4	190.1	11.1
38°	575.3	568.5	538.4	503.5	453.5	400.6	332.3	272.2	206.6	158.7	8.5
39°	485.6	485.5	456.7	431.5	382.6	335.0	273.4	220.9	170.5	127.8	6.6
40°	409.6	395.4	377.7	346.0	308.5	268.0	214.1	172.9	132.3	103.0	5.1
42.5°	214.7	213.5	203.1	179.3	158.3	134.5	106.9	89.1	69.7	56.8	3.2
45°	92.2	92.8	85.6	82.0	73.9	63.9	54.0	45.0	38.6	31.3	1.9
47.5°	23.4	22.4	22.2	23.0	23.0	22.3	20.0	18.8	17.4	15.9	1.1
50°	10.1	9.8	9.6	9.6	9.0	8.6	8.0	7.3	6.7	6.0	0.5
52.5°	3.7	3.8	4.0	3.8	3.8	3.7	3.7	3.6	3.2	2.9	0.2
55°	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.3	0.0
57.5°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	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°	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	5.3	4.7	4.0	3.4	3.2	3.1
5°	5.9	4.3	3.2	2.6	2.4	2.3
7.5°	6.3	4.0	2.6	1.9	1.7	1.6
10°	6.6	3.5	2.2	1.4	1.1	1.1
12.5°	6.7	3.0	1.6	1.0	0.6	0.6
15°	6.6	2.5	1.2	0.5	0.1	0.1
17.5°	6.0	2.0	0.7	0.1	0.0	0.0
20°	5.1	1.7	0.5	0.0	0.0	0.0
21°	4.9	1.4	0.4	0.0	0.0	0.0
22°	4.6	1.3	0.2	0.0	0.0	0.0
23°	4.2	1.2	0.2	0.0	0.0	0.0
24°	3.8	1.1	0.1	0.0	0.0	0.0
25°	3.6	1.0	0.1	0.0	0.0	0.0
26°	3.4	0.8	0.1	0.0	0.0	0.0
27°	3.0	0.7	0.0	0.0	0.0	0.0
28°	2.8	0.6	0.0	0.0	0.0	0.0
29°	2.4	0.5	0.0	0.0	0.0	0.0
30°	2.0	0.4	0.0	0.0	0.0	0.0
31°	1.7	0.4	0.0	0.0	0.0	0.0
32°	1.4	0.2	0.0	0.0	0.0	0.0
33°	1.2	0.2	0.0	0.0	0.0	0.0
34°	1.1	0.2	0.0	0.0	0.0	0.0
35°	1.0	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.1	0.0	0.0	0.0	0.0
37°	0.6	0.1	0.0	0.0	0.0	0.0
38°	0.5	0.1	0.0	0.0	0.0	0.0
39°	0.4	0.0	0.0	0.0	0.0	0.0
40°	0.4	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	0.4
52.5°	0.0	0.2	0.1	0.1	0.4	0.4
55°	0.1	0.2	0.1	0.2	0.5	0.5
57.5°	0.1	0.2	0.2	0.4	0.5	0.6
60°	0.2	0.4	0.4	0.4	0.6	0.6
62.5°	0.2	0.4	0.5	0.5	0.6	0.7
65°	0.2	0.5	0.5	0.5	0.6	0.7
67.5°	0.4	0.5	0.5	0.5	0.6	0.7
70°	0.4	0.5	0.5	0.5	0.6	0.6
72.5°	0.4	0.5	0.4	0.5	0.5	0.6
75°	0.4	0.5	0.4	0.4	0.5	0.5
77.5°	0.2	0.4	0.4	0.2	0.4	0.4
80°	0.2	0.4	0.2	0.2	0.4	0.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.4	0.2	0.1	0.2	0.2
85°	0.2	0.4	0.2	0.1	0.1	0.1
87.5°	0.2	0.4	0.2	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)