

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: P1334355

Luminaire Tested: P3A02R209035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334355
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: P3A02R209035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

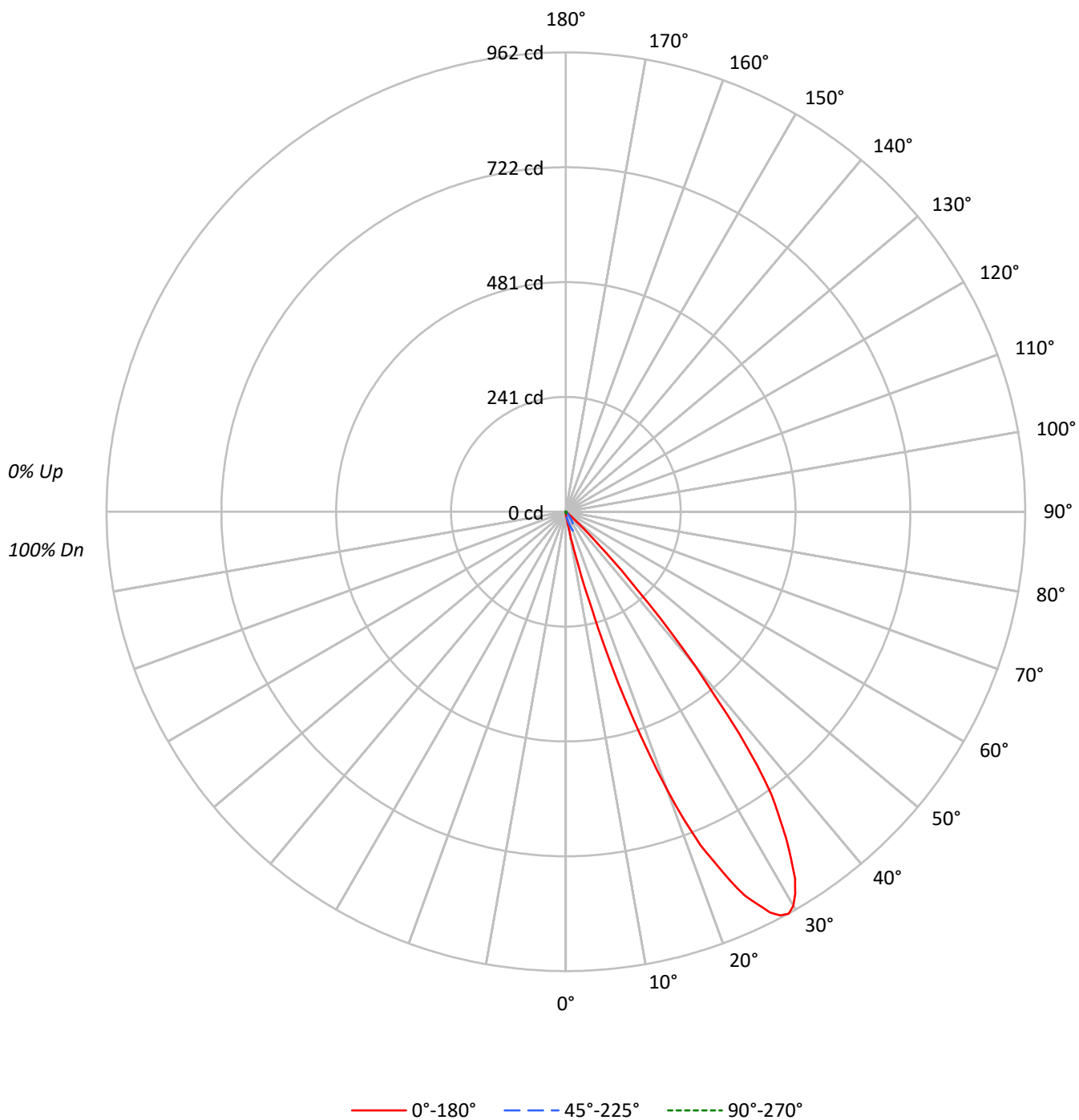
Lumens per Lamp: N/A
Luminaire Lumens: 135.0 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	1031	1031	1031	1031	1031
5°	2355	1761	969	594	506
10°	7392	3050	802	334	245
15°	47878	5653	590	114	23
20°	144493	9661	397	0	0
25°	214609	9751	242	0	0
30°	241328	7419	101	0	0
35°	208238	4417	54	0	0
40°	119910	1517	0	0	0
45°	29243	620	31	0	31
50°	3514	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: 29429 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	12.5	9.3
20°-30°	54.5	40.4
30°-40°	54.9	40.7
40°-50°	11.0	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°	67.7	50.1
0°-40°	122.6	90.8
0°-60°	134.1	99.4
0°-90°	135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	135.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	11	8	4	3	2	2
15°	211	25	3	0	0	83
25°	887	40	1	0	0	400
35°	778	16	0	0	0	463
45°	94	2	0	0	0	103
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2.5°	7.0	7.0	6.9	6.9	6.7	6.9	6.6	6.7	6.7	6.6	6.0
5°	10.7	10.9	10.8	10.8	10.7	10.8	10.5	10.3	10.0	10.0	8.0
7.5°	17.5	17.4	17.1	17.3	16.9	16.7	16.4	16.3	15.6	15.2	10.4
10°	33.2	33.9	33.3	33.2	31.0	30.9	29.4	27.3	25.5	24.5	13.7
12.5°	91.4	95.3	89.2	86.2	84.5	77.9	75.1	67.9	60.9	55.6	17.4
15°	210.9	220.6	208.2	209.1	198.8	179.9	163.4	149.2	132.4	115.5	24.9
17.5°	413.2	405.4	398.7	387.3	366.3	338.6	303.0	266.9	235.6	202.9	34.7
20°	619.2	612.3	597.0	572.1	545.4	504.4	462.0	407.7	355.2	305.9	41.4
21°	690.2	687.8	662.7	647.4	606.3	567.1	518.2	460.1	401.0	342.7	42.5
22°	753.5	739.5	726.0	703.4	662.5	619.9	565.5	504.4	440.2	375.4	42.6
23°	797.3	791.0	778.2	752.6	712.0	661.9	604.5	540.6	473.0	398.5	42.3
24°	845.8	837.7	819.1	789.2	748.2	698.7	633.3	569.9	496.4	418.0	41.3
25°	887.0	874.4	852.3	820.1	775.3	724.2	658.4	588.7	512.7	431.1	40.3
26°	913.7	906.8	878.5	843.5	795.5	742.8	675.7	603.2	523.2	437.1	38.7
27°	941.5	928.9	901.1	860.8	808.7	754.9	685.5	610.2	526.9	437.4	36.7
28°	957.4	943.7	912.2	869.8	817.3	761.7	691.1	612.4	526.2	433.6	34.4
29°	962.4	945.2	914.4	871.3	819.4	762.2	690.3	609.2	519.7	424.3	31.7
30°	953.1	935.5	906.3	864.3	812.8	756.1	682.3	598.7	508.2	410.9	29.3
31°	932.8	917.8	889.7	847.5	798.1	741.7	664.3	581.4	488.6	393.0	26.5
32°	906.0	891.3	863.6	825.5	775.2	718.3	639.7	554.5	465.5	366.3	23.6
33°	865.7	857.2	832.4	796.0	745.6	684.9	606.6	522.2	432.7	336.7	21.2
34°	824.9	814.2	796.8	757.0	702.9	642.3	563.5	477.8	392.7	303.5	18.9
35°	777.9	771.5	744.2	712.3	657.9	596.0	517.7	434.5	346.0	266.5	16.5
36°	732.3	722.5	691.4	657.7	604.9	537.9	460.6	382.5	305.7	231.8	14.1
37°	666.2	651.2	629.0	593.5	531.8	474.7	404.2	331.7	256.1	194.4	11.4
38°	588.4	581.4	550.7	514.9	463.8	409.7	339.9	278.4	211.3	162.3	8.7
39°	496.6	496.5	467.1	441.3	391.3	342.6	279.6	226.0	174.4	130.7	6.7
40°	418.9	404.4	386.3	353.8	315.5	274.1	219.0	176.9	135.3	105.3	5.3
42.5°	219.6	218.4	207.7	183.3	161.9	137.5	109.4	91.1	71.3	58.1	3.3
45°	94.3	94.9	87.6	83.9	75.6	65.4	55.2	46.1	39.4	32.0	2.0
47.5°	23.9	22.9	22.7	23.5	23.5	22.8	20.5	19.2	17.8	16.3	1.1
50°	10.3	10.0	9.8	9.8	9.2	8.8	8.2	7.5	6.9	6.1	0.5
52.5°	3.8	3.9	4.0	3.9	3.9	3.8	3.8	3.7	3.3	2.9	0.2
55°	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5	1.5	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°	4.7	4.7	4.7	4.7	4.7	4.7
2.5°	5.4	4.8	4.0	3.4	3.3	3.2
5°	6.0	4.4	3.3	2.7	2.4	2.3
7.5°	6.5	4.0	2.7	2.0	1.7	1.6
10°	6.7	3.6	2.2	1.5	1.1	1.1
12.5°	6.9	3.1	1.6	1.0	0.6	0.6
15°	6.7	2.6	1.2	0.5	0.1	0.1
17.5°	6.1	2.1	0.7	0.1	0.0	0.0
20°	5.3	1.7	0.5	0.0	0.0	0.0
21°	5.0	1.5	0.4	0.0	0.0	0.0
22°	4.7	1.3	0.2	0.0	0.0	0.0
23°	4.3	1.2	0.2	0.0	0.0	0.0
24°	3.9	1.1	0.1	0.0	0.0	0.0
25°	3.7	1.0	0.1	0.0	0.0	0.0
26°	3.4	0.9	0.1	0.0	0.0	0.0
27°	3.1	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°	2.1	0.4	0.0	0.0	0.0	0.0
31°	1.7	0.4	0.0	0.0	0.0	0.0
32°	1.5	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)