

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: P1334017

Luminaire Tested: P3A02R159030DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159030DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

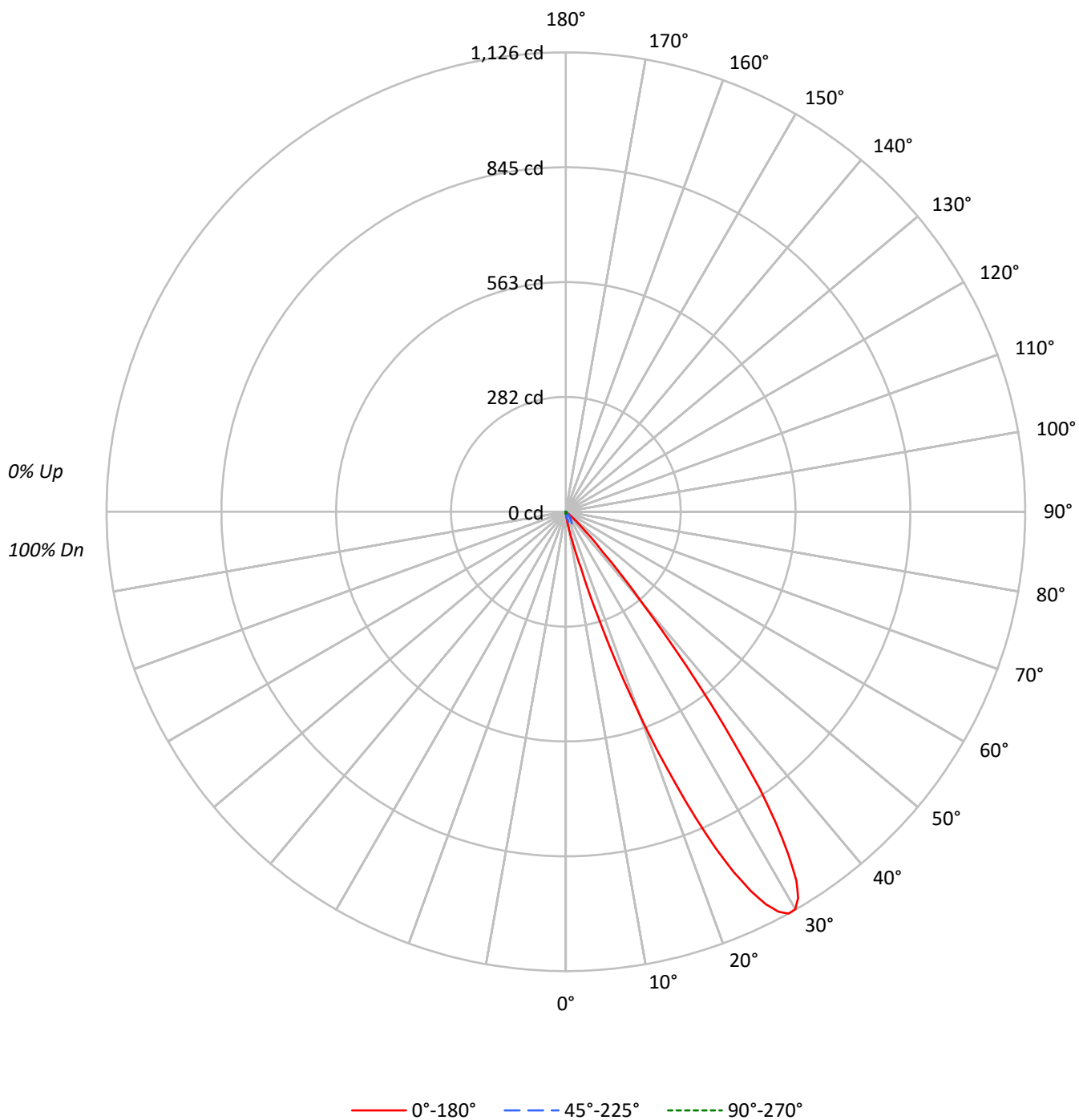
Lumens per Lamp: N/A
Luminaire Lumens: 123.0 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	899	899	899	899	899
5°	1915	1431	836	440	374
10°	8528	2694	668	178	134
15°	32236	6220	454	91	45
20°	124004	8774	280	23	23
25°	235780	8226	145	0	0
30°	284829	6634	51	0	0
35°	222158	4524	27	0	0
40°	81066	2233	29	0	29
45°	20808	682	31	0	62
50°	3514	68	34	34	136
55°	459	0	76	153	229
60°	44	44	175	219	307
65°	52	52	259	311	363
70°	64	64	321	321	385
75°	85	85	424	339	424
80°	0	126	505	253	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	9.4	7.7
20°-30°	52.3	42.5
30°-40°	50.5	41.1
40°-50°	8.8	7.1
50°-60°	0.6	0.5
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°	62.3	50.6
0°-40°	112.8	91.7
0°-60°	122.2	99.3
0°-90°	123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	123.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	9	6	4	2	2	2
15°	142	27	2	0	0	63
25°	974	34	1	0	0	436
35°	830	17	0	0	0	477
45°	67	2	0	0	0	72
55°	1	0	0	0	1	2
65°	0	0	0	1	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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
2.5°	6.0	5.7	5.9	5.9	5.9	5.9	5.9	5.6	5.6	5.7	5.1
5°	8.7	8.7	8.6	8.7	8.7	8.6	8.4	8.3	8.3	8.0	6.5
7.5°	17.5	17.2	17.2	17.0	15.8	15.4	15.2	14.6	13.5	13.3	8.4
10°	38.3	38.4	37.6	36.5	36.4	34.6	34.0	32.9	30.9	28.8	12.1
12.5°	69.5	68.0	65.9	66.0	62.6	61.4	58.6	55.6	52.5	49.3	19.9
15°	142.0	137.6	140.2	133.8	126.5	118.2	109.8	99.3	90.3	80.8	27.4
17.5°	299.1	303.4	296.1	268.5	251.5	231.5	203.4	176.2	153.0	134.4	33.5
20°	531.4	537.7	512.9	488.9	447.6	402.6	355.7	302.6	251.7	207.7	37.6
21°	628.4	624.6	614.4	575.9	528.2	476.1	418.6	360.0	298.4	241.2	37.9
22°	722.2	724.0	700.3	660.0	610.4	552.7	482.5	410.2	343.7	268.5	37.3
23°	815.6	821.4	790.0	752.2	689.9	624.7	543.6	465.4	383.4	299.7	36.1
24°	902.1	898.2	877.0	829.4	762.8	686.4	602.2	507.4	415.9	326.4	35.2
25°	974.5	974.1	940.8	894.5	818.3	733.7	640.8	541.8	443.8	344.5	34.0
26°	1033.8	1024.1	997.9	941.4	866.1	776.9	672.5	566.8	459.4	353.6	32.8
27°	1079.5	1072.5	1037.3	978.6	900.0	801.3	692.9	579.2	466.6	356.6	31.2
28°	1110.2	1102.7	1065.2	1004.7	918.7	816.6	703.7	584.5	466.6	353.7	29.8
29°	1126.1	1115.8	1078.5	1013.7	923.0	818.4	701.0	579.3	459.3	344.8	28.1
30°	1124.9	1112.1	1073.0	1005.5	910.2	803.7	686.3	560.8	442.8	331.7	26.2
31°	1105.5	1091.2	1047.5	978.0	883.7	775.9	658.5	535.9	420.2	314.6	24.3
32°	1066.2	1048.0	1005.4	936.1	843.0	734.4	618.2	497.5	386.3	289.5	22.3
33°	1002.1	983.7	938.0	873.1	788.0	681.8	564.7	456.2	347.8	259.8	20.6
34°	921.8	905.0	865.7	800.2	718.6	615.1	503.2	399.1	307.9	230.2	18.8
35°	829.9	803.2	767.5	715.7	636.2	532.1	436.8	346.0	266.7	199.2	16.9
36°	705.6	710.4	672.5	609.1	543.2	461.6	370.2	288.5	223.0	169.8	15.2
37°	595.4	587.8	563.8	514.7	457.3	376.3	310.2	244.6	187.6	143.6	13.4
38°	480.3	481.9	458.4	420.7	363.7	309.4	249.7	200.9	157.0	122.2	11.7
39°	375.9	374.6	368.3	333.3	281.8	246.1	202.3	166.6	130.8	103.0	9.9
40°	283.2	285.4	270.5	249.5	219.4	190.1	161.2	132.8	108.2	86.9	7.8
42.5°	137.7	141.1	131.3	125.9	112.6	101.1	85.3	69.6	59.2	51.2	3.5
45°	67.1	65.2	64.4	61.7	58.6	52.4	46.4	39.8	34.8	30.0	2.2
47.5°	34.3	33.4	33.4	32.3	31.2	29.2	26.2	24.0	21.7	18.7	0.8
50°	10.3	10.2	10.1	10.2	9.8	10.2	10.4	10.5	9.6	9.5	0.2
52.5°	4.1	4.2	4.1	4.4	4.4	4.3	4.4	4.3	4.2	3.7	0.0
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.3	1.4	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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°	4.1	4.1	4.1	4.1	4.1	4.1
2.5°	4.8	4.2	3.5	2.9	2.6	2.5
5°	5.1	3.8	2.6	2.0	1.8	1.7
7.5°	5.5	3.5	2.0	1.4	1.1	1.0
10°	5.7	3.0	1.6	0.8	0.6	0.6
12.5°	5.7	2.4	1.1	0.5	0.4	0.4
15°	5.6	2.0	0.7	0.4	0.2	0.2
17.5°	5.5	1.6	0.5	0.2	0.1	0.2
20°	5.1	1.2	0.2	0.1	0.1	0.1
21°	5.0	1.1	0.2	0.1	0.1	0.1
22°	4.8	1.0	0.1	0.0	0.1	0.1
23°	4.5	0.7	0.1	0.0	0.0	0.0
24°	4.2	0.6	0.1	0.0	0.0	0.0
25°	3.9	0.6	0.1	0.0	0.0	0.0
26°	3.7	0.4	0.0	0.0	0.0	0.0
27°	3.4	0.2	0.0	0.0	0.0	0.0
28°	3.1	0.2	0.0	0.0	0.0	0.0
29°	2.8	0.2	0.0	0.0	0.0	0.0
30°	2.4	0.2	0.0	0.0	0.0	0.0
31°	1.9	0.1	0.0	0.0	0.0	0.0
32°	1.6	0.1	0.0	0.0	0.0	0.0
33°	1.1	0.1	0.0	0.0	0.0	0.0
34°	0.7	0.1	0.0	0.0	0.0	0.0
35°	0.6	0.1	0.0	0.0	0.0	0.0
36°	0.4	0.1	0.0	0.0	0.0	0.1
37°	0.4	0.1	0.0	0.0	0.0	0.1
38°	0.2	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.2
45°	0.0	0.1	0.0	0.0	0.1	0.2
47.5°	0.0	0.1	0.0	0.0	0.2	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.4
52.5°	0.0	0.2	0.1	0.2	0.4	0.5
55°	0.1	0.2	0.2	0.4	0.5	0.6
57.5°	0.1	0.4	0.4	0.5	0.6	0.6
60°	0.2	0.4	0.5	0.5	0.7	0.7
62.5°	0.2	0.5	0.5	0.5	0.7	0.7
65°	0.2	0.5	0.5	0.6	0.7	0.7
67.5°	0.2	0.5	0.5	0.5	0.6	0.7
70°	0.2	0.5	0.4	0.5	0.6	0.6
72.5°	0.2	0.5	0.4	0.4	0.5	0.6
75°	0.2	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	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)