

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: P1334170

Luminaire Tested: P3A02R159835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334170
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: P3A02R159835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

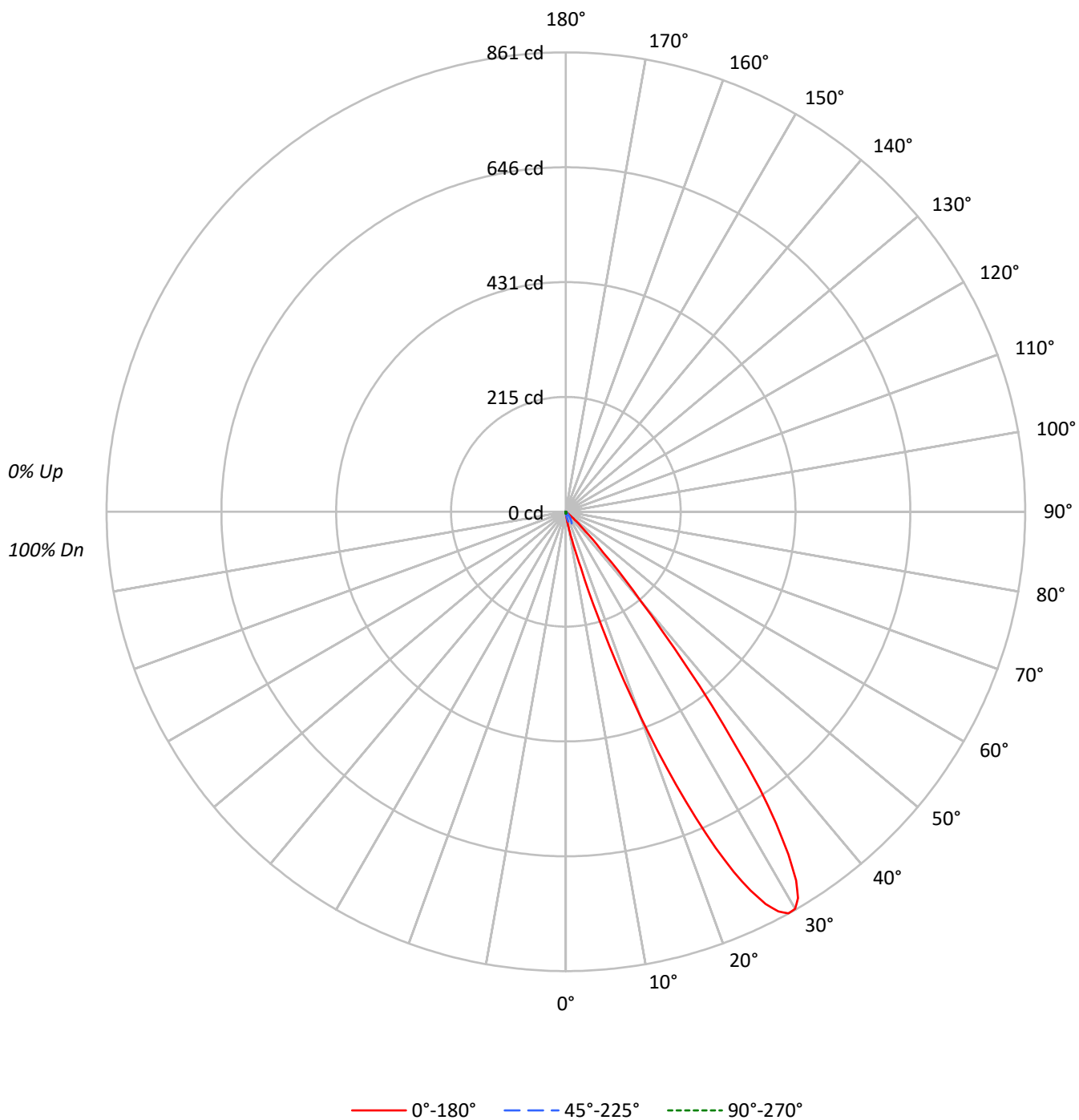
Lumens per Lamp: N/A
Luminaire Lumens: 94.1 lumens
Efficiency: N/A
Efficacy: 26.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	98	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	52	48	70	59	52	47	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°	680	680	680	680	680
5°	1475	1079	638	352	286
10°	6524	2049	512	134	111
15°	24631	4745	363	68	45
20°	94765	6697	210	23	23
25°	180204	6291	121	0	0
30°	217679	5064	51	0	0
35°	169770	3453	27	0	0
40°	61945	1689	29	0	29
45°	15909	496	31	0	62
50°	2695	68	34	34	102
55°	344	0	76	115	191
60°	44	44	132	175	219
65°	52	52	208	259	259
70°	64	64	256	256	321
75°	85	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	7.2	7.7
20°-30°	40.0	42.5
30°-40°	38.6	41.0
40°-50°	6.7	7.1
50°-60°	0.5	0.5
60°-70°	0.3	0.3
70°-80°	0.3	0.3
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°	47.6	50.6
0°-40°	86.2	91.6
0°-60°	93.4	99.3
0°-90°	94.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	94.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	7	5	3	2	1	1
15°	108	21	2	0	0	48
25°	745	26	0	0	0	333
35°	634	13	0	0	0	365
45°	51	2	0	0	0	55
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°	4.6	4.4	4.5	4.5	4.5	4.5	4.5	4.3	4.3	4.4	3.9
5°	6.7	6.7	6.6	6.7	6.7	6.6	6.4	6.3	6.3	6.1	4.9
7.5°	13.4	13.2	13.2	13.0	12.1	11.8	11.6	11.2	10.3	10.1	6.4
10°	29.3	29.4	28.7	27.9	27.8	26.4	26.0	25.1	23.6	22.0	9.2
12.5°	53.1	51.9	50.4	50.5	47.8	46.9	44.8	42.5	40.1	37.7	15.2
15°	108.5	105.2	107.2	102.2	96.7	90.3	83.9	75.9	69.0	61.7	20.9
17.5°	228.6	231.9	226.3	205.2	192.2	176.9	155.4	134.7	116.9	102.7	25.6
20°	406.1	410.9	392.0	373.6	342.1	307.7	271.8	231.2	192.4	158.7	28.7
21°	480.2	477.3	469.5	440.1	403.7	363.8	319.9	275.1	228.0	184.3	29.0
22°	551.9	553.3	535.2	504.4	466.5	422.4	368.8	313.5	262.7	205.2	28.5
23°	623.3	627.7	603.8	574.9	527.2	477.4	415.4	355.7	293.0	229.1	27.6
24°	689.4	686.4	670.2	633.9	582.9	524.6	460.2	387.8	317.8	249.4	26.9
25°	744.8	744.4	719.0	683.6	625.3	560.7	489.7	414.0	339.1	263.3	26.0
26°	790.0	782.6	762.6	719.4	661.9	593.7	514.0	433.1	351.1	270.2	25.1
27°	825.0	819.7	792.8	747.9	687.8	612.4	529.5	442.7	356.6	272.5	23.9
28°	848.5	842.7	814.1	767.8	702.1	624.1	537.7	446.7	356.6	270.3	22.8
29°	860.6	852.8	824.2	774.7	705.4	625.4	535.7	442.7	351.0	263.5	21.5
30°	859.7	849.9	820.0	768.4	695.6	614.2	524.5	428.6	338.4	253.5	20.0
31°	844.9	833.9	800.5	747.4	675.4	593.0	503.3	409.6	321.1	240.4	18.6
32°	814.8	800.9	768.4	715.4	644.3	561.2	472.5	380.2	295.3	221.3	17.0
33°	765.8	751.8	716.9	667.2	602.2	521.0	431.6	348.7	265.8	198.5	15.7
34°	704.4	691.6	661.6	611.5	549.2	470.1	384.6	305.0	235.3	175.9	14.4
35°	634.2	613.8	586.6	547.0	486.2	406.6	333.8	264.4	203.8	152.2	12.9
36°	539.2	542.9	514.0	465.5	415.1	352.8	282.9	220.5	170.4	129.8	11.6
37°	455.0	449.2	430.9	393.4	349.5	287.6	237.1	186.9	143.4	109.7	10.2
38°	367.0	368.3	350.3	321.5	278.0	236.5	190.8	153.5	120.0	93.4	9.0
39°	287.3	286.3	281.4	254.7	215.3	188.1	154.6	127.3	99.9	78.7	7.6
40°	216.4	218.1	206.7	190.6	167.7	145.3	123.2	101.5	82.7	66.4	5.9
42.5°	105.2	107.8	100.3	96.2	86.0	77.3	65.2	53.2	45.3	39.1	2.7
45°	51.3	49.8	49.2	47.2	44.8	40.1	35.5	30.4	26.6	23.0	1.6
47.5°	26.2	25.5	25.5	24.7	23.9	22.3	20.0	18.4	16.6	14.3	0.6
50°	7.9	7.8	7.7	7.8	7.5	7.8	8.0	8.0	7.3	7.2	0.2
52.5°	3.1	3.2	3.1	3.4	3.4	3.3	3.4	3.3	3.2	2.8	0.0
55°	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.1	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°	3.1	3.1	3.1	3.1	3.1	3.1
2.5°	3.7	3.2	2.7	2.2	2.0	1.9
5°	3.9	2.9	2.0	1.6	1.4	1.3
7.5°	4.2	2.7	1.6	1.1	0.8	0.7
10°	4.4	2.3	1.2	0.6	0.5	0.5
12.5°	4.4	1.8	0.8	0.4	0.3	0.3
15°	4.3	1.6	0.5	0.3	0.2	0.2
17.5°	4.2	1.2	0.4	0.2	0.1	0.2
20°	3.9	0.9	0.2	0.1	0.1	0.1
21°	3.8	0.8	0.2	0.1	0.1	0.1
22°	3.7	0.7	0.1	0.0	0.1	0.1
23°	3.5	0.5	0.1	0.0	0.0	0.0
24°	3.2	0.5	0.1	0.0	0.0	0.0
25°	3.0	0.5	0.1	0.0	0.0	0.0
26°	2.8	0.3	0.0	0.0	0.0	0.0
27°	2.6	0.2	0.0	0.0	0.0	0.0
28°	2.4	0.2	0.0	0.0	0.0	0.0
29°	2.1	0.2	0.0	0.0	0.0	0.0
30°	1.8	0.2	0.0	0.0	0.0	0.0
31°	1.5	0.1	0.0	0.0	0.0	0.0
32°	1.2	0.1	0.0	0.0	0.0	0.0
33°	0.8	0.1	0.0	0.0	0.0	0.0
34°	0.5	0.1	0.0	0.0	0.0	0.0
35°	0.5	0.1	0.0	0.0	0.0	0.0
36°	0.3	0.1	0.0	0.0	0.0	0.1
37°	0.3	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	0.3
52.5°	0.0	0.2	0.1	0.2	0.3	0.4
55°	0.1	0.2	0.2	0.3	0.4	0.5
57.5°	0.1	0.3	0.3	0.4	0.5	0.5
60°	0.2	0.3	0.4	0.4	0.5	0.5
62.5°	0.2	0.4	0.4	0.4	0.5	0.5
65°	0.2	0.4	0.4	0.5	0.5	0.5
67.5°	0.2	0.4	0.4	0.4	0.5	0.5
70°	0.2	0.4	0.3	0.4	0.5	0.5
72.5°	0.2	0.4	0.3	0.3	0.4	0.5
75°	0.2	0.4	0.3	0.3	0.4	0.4
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)