

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: P1334106

Luminaire Tested: P3A02R159735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334106
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: P3A02R159735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

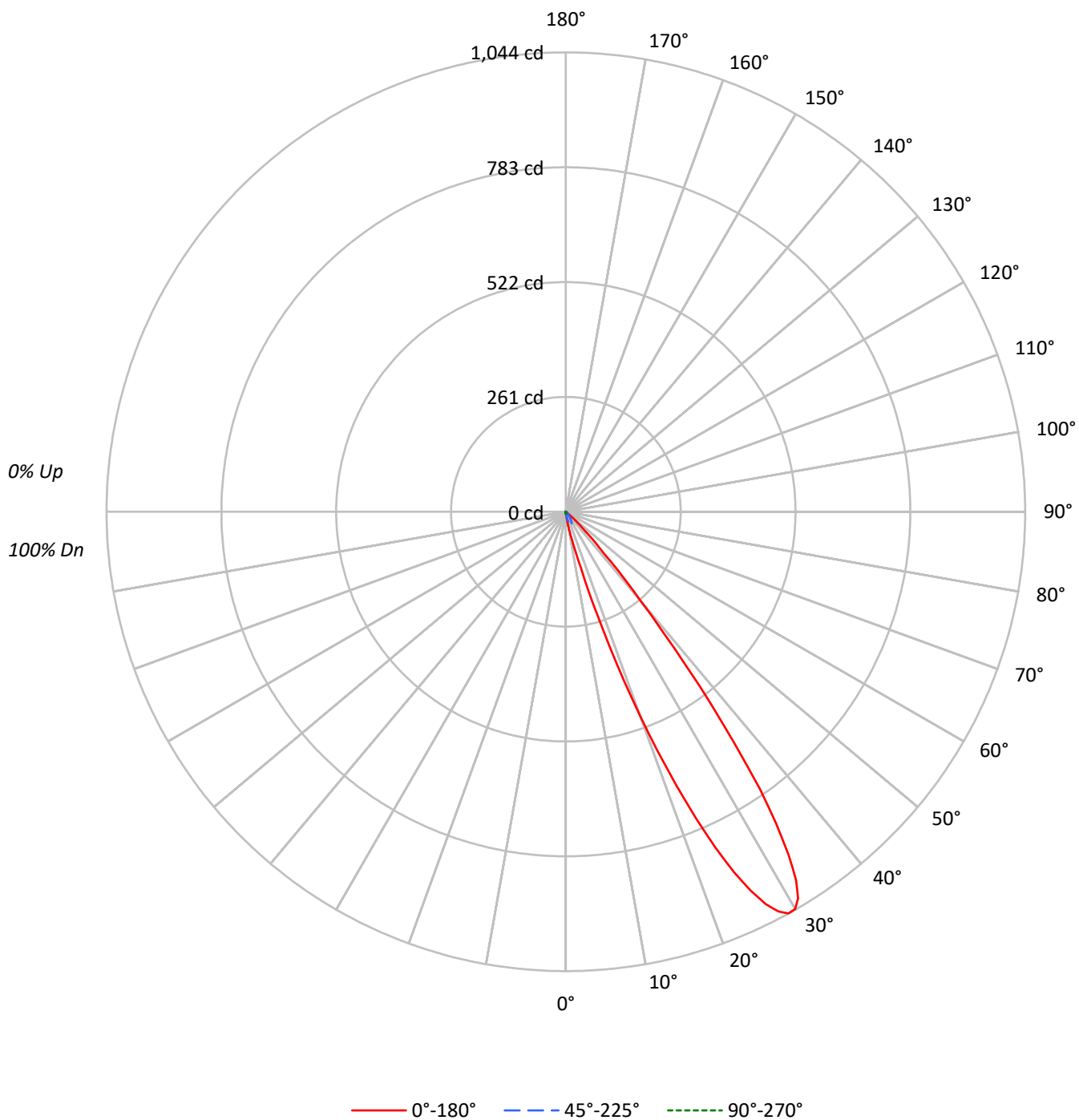
Lumens per Lamp: N/A
Luminaire Lumens: 113.9 lumens
Efficiency: N/A
Efficacy: 31.6 lumens/watt
Spacing Criteria (0/90/45): 2.34 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	833	833	833	833	833
5°	1783	1321	770	418	352
10°	7905	2494	623	178	134
15°	29875	5766	431	68	45
20°	114927	8121	257	23	23
25°	218529	7621	145	0	0
30°	263990	6153	51	0	0
35°	205909	4176	27	0	0
40°	75141	2061	29	0	29
45°	19289	620	31	0	62
50°	3241	68	34	34	102
55°	421	0	76	115	229
60°	44	44	132	175	307
65°	52	52	208	311	363
70°	64	64	256	256	385
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: 19289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	8.7	7.7
20°-30°	48.5	42.5
30°-40°	46.8	41.1
40°-50°	8.1	7.1
50°-60°	0.6	0.5
60°-70°	0.3	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°	57.7	50.6
0°-40°	104.5	91.7
0°-60°	113.2	99.4
0°-90°	113.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	113.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	8	6	4	2	2	2
15°	132	25	2	0	0	59
25°	903	32	1	0	0	404
35°	769	16	0	0	0	442
45°	62	2	0	0	0	67
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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	5.5	5.3	5.4	5.4	5.4	5.4	5.4	5.2	5.2	5.3	4.8
5°	8.1	8.1	8.0	8.1	8.1	8.0	7.8	7.7	7.7	7.4	6.0
7.5°	16.2	16.0	16.0	15.7	14.6	14.3	14.1	13.5	12.5	12.3	7.8
10°	35.5	35.6	34.8	33.8	33.7	32.0	31.5	30.5	28.6	26.7	11.2
12.5°	64.4	63.0	61.1	61.2	58.0	56.9	54.3	51.6	48.7	45.7	18.4
15°	131.6	127.5	130.0	124.0	117.2	109.6	101.8	92.0	83.7	74.9	25.4
17.5°	277.2	281.2	274.5	248.8	233.1	214.6	188.5	163.3	141.8	124.5	31.1
20°	492.5	498.4	475.4	453.1	414.9	373.2	329.7	280.4	233.3	192.5	34.8
21°	582.4	578.9	569.4	533.7	489.6	441.2	388.0	333.7	276.6	223.6	35.2
22°	669.4	671.0	649.1	611.7	565.8	512.2	447.2	380.1	318.6	248.8	34.6
23°	756.0	761.3	732.2	697.2	639.4	579.0	503.8	431.4	355.3	277.8	33.5
24°	836.1	832.5	812.8	768.7	706.9	636.2	558.1	470.3	385.5	302.5	32.6
25°	903.2	902.8	872.0	829.0	758.4	680.0	593.9	502.1	411.3	319.3	31.5
26°	958.1	949.1	924.9	872.5	802.8	720.0	623.3	525.3	425.8	327.7	30.4
27°	1000.5	994.0	961.4	907.0	834.1	742.7	642.2	536.8	432.5	330.5	28.9
28°	1029.0	1022.0	987.3	931.2	851.4	756.8	652.2	541.7	432.5	327.8	27.6
29°	1043.7	1034.2	999.6	939.5	855.4	758.5	649.7	536.9	425.7	319.6	26.1
30°	1042.6	1030.8	994.5	931.9	843.6	744.9	636.1	519.8	410.4	307.4	24.3
31°	1024.7	1011.3	970.9	906.4	819.1	719.1	610.4	496.7	389.5	291.5	22.5
32°	988.2	971.3	931.8	867.6	781.4	680.7	573.0	461.1	358.1	268.4	20.6
33°	928.7	911.8	869.4	809.2	730.3	631.9	523.4	422.8	322.4	240.7	19.1
34°	854.3	838.8	802.3	741.7	666.0	570.1	466.4	369.9	285.3	213.4	17.4
35°	769.2	744.4	711.4	663.4	589.6	493.1	404.9	320.7	247.2	184.6	15.6
36°	653.9	658.4	623.3	564.6	503.5	427.8	343.1	267.4	206.7	157.4	14.1
37°	551.8	544.8	522.5	477.1	423.8	348.8	287.5	226.7	173.9	133.1	12.4
38°	445.1	446.7	424.8	389.9	337.1	286.8	231.4	186.2	145.5	113.2	10.9
39°	348.4	347.2	341.3	308.9	261.2	228.1	187.5	154.4	121.2	95.5	9.2
40°	262.5	264.5	250.7	231.2	203.4	176.2	149.4	123.1	100.2	80.5	7.2
42.5°	127.6	130.7	121.6	116.7	104.4	93.7	79.1	64.5	54.9	47.5	3.2
45°	62.2	60.4	59.7	57.2	54.3	48.6	43.0	36.9	32.3	27.8	2.0
47.5°	31.8	30.9	30.9	29.9	28.9	27.1	24.3	22.3	20.1	17.3	0.8
50°	9.5	9.4	9.3	9.4	9.1	9.4	9.6	9.8	8.9	8.8	0.2
52.5°	3.8	3.9	3.8	4.1	4.1	4.0	4.1	4.0	3.9	3.4	0.0
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.3	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°	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	4.4	3.9	3.2	2.7	2.4	2.3
5°	4.8	3.5	2.4	1.9	1.7	1.6
7.5°	5.1	3.2	1.9	1.3	1.0	0.9
10°	5.3	2.8	1.4	0.8	0.6	0.6
12.5°	5.3	2.2	1.0	0.4	0.3	0.3
15°	5.2	1.9	0.7	0.3	0.2	0.2
17.5°	5.1	1.4	0.4	0.2	0.1	0.2
20°	4.8	1.1	0.2	0.1	0.1	0.1
21°	4.7	1.0	0.2	0.1	0.1	0.1
22°	4.4	0.9	0.1	0.0	0.1	0.1
23°	4.2	0.7	0.1	0.0	0.0	0.0
24°	3.9	0.6	0.1	0.0	0.0	0.0
25°	3.7	0.6	0.1	0.0	0.0	0.0
26°	3.4	0.3	0.0	0.0	0.0	0.0
27°	3.1	0.2	0.0	0.0	0.0	0.0
28°	2.9	0.2	0.0	0.0	0.0	0.0
29°	2.6	0.2	0.0	0.0	0.0	0.0
30°	2.2	0.2	0.0	0.0	0.0	0.0
31°	1.8	0.1	0.0	0.0	0.0	0.0
32°	1.4	0.1	0.0	0.0	0.0	0.0
33°	1.0	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°	0.3	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	0.6
57.5°	0.1	0.3	0.3	0.4	0.6	0.6
60°	0.2	0.3	0.4	0.4	0.7	0.7
62.5°	0.2	0.4	0.4	0.4	0.7	0.7
65°	0.2	0.4	0.4	0.6	0.7	0.7
67.5°	0.2	0.4	0.4	0.4	0.6	0.7
70°	0.2	0.4	0.3	0.4	0.6	0.6
72.5°	0.2	0.4	0.3	0.3	0.4	0.6
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)