

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: P1334154

Luminaire Tested: P3A02R159830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334154
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: P3A02R159830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

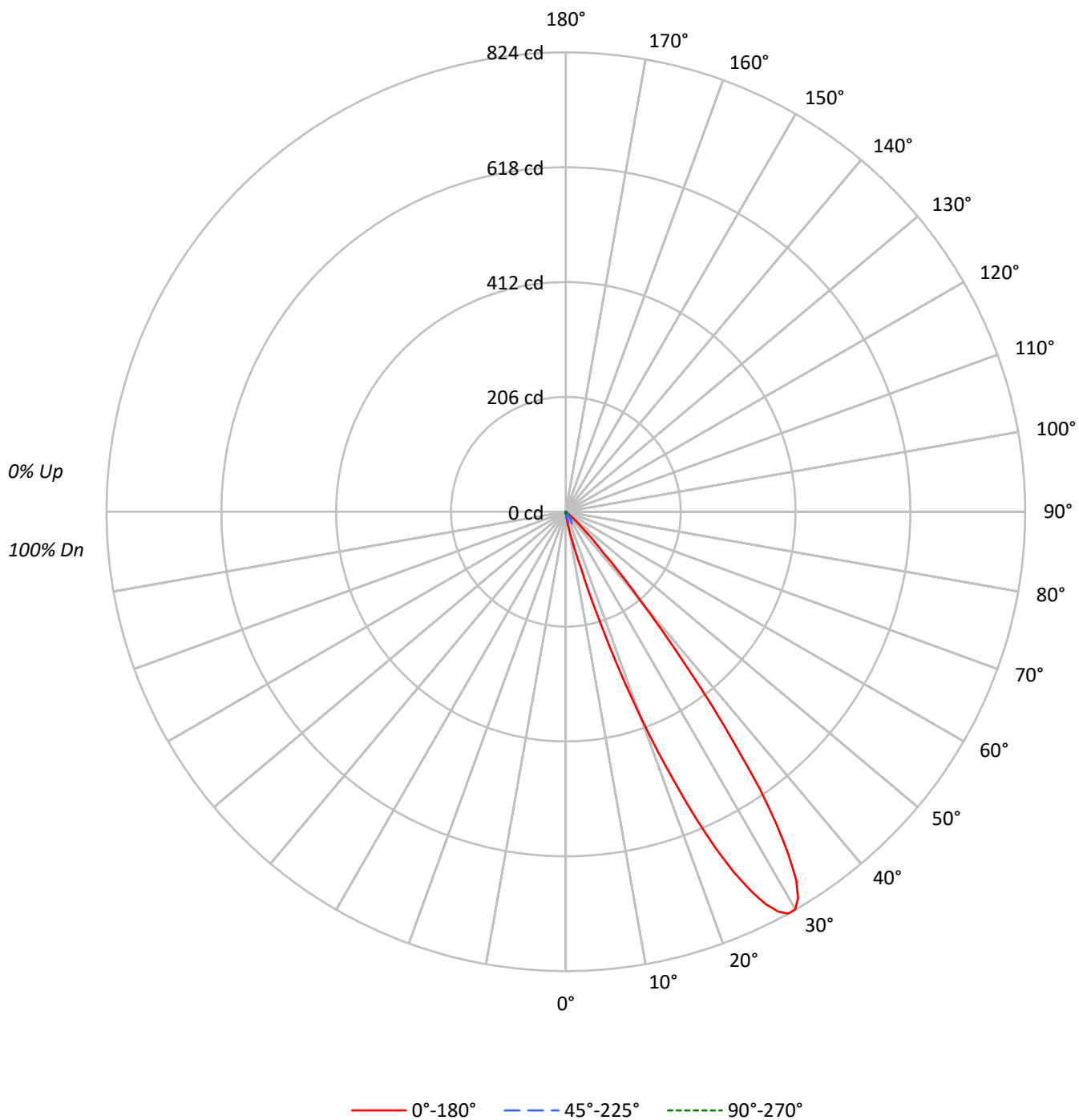
Lumens per Lamp: N/A
Luminaire Lumens: 90.1 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	68	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°	658	658	658	658	658
5°	1409	1035	616	330	264
10°	6235	1959	490	134	89
15°	23587	4540	341	68	45
20°	90728	6417	210	23	23
25°	172534	6025	97	0	0
30°	208412	4862	51	0	0
35°	162543	3293	27	0	0
40°	59311	1632	29	0	29
45°	15226	496	31	0	62
50°	2559	68	34	34	102
55°	344	0	76	115	153
60°	44	44	132	175	219
65°	52	52	208	208	259
70°	64	64	256	256	256
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: 15226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	6.9	7.7
20°-30°	38.3	42.5
30°-40°	37.0	41.0
40°-50°	6.4	7.1
50°-60°	0.5	0.5
60°-70°	0.3	0.3
70°-80°	0.2	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°	45.6	50.6
0°-40°	82.5	91.6
0°-60°	89.4	99.3
0°-90°	90.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	90.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	6	5	3	2	1	1
15°	104	20	2	0	0	46
25°	713	25	0	0	0	319
35°	607	12	0	0	0	349
45°	49	2	0	0	0	53
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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	4.4	4.2	4.3	4.3	4.3	4.3	4.3	4.1	4.1	4.2	3.8
5°	6.4	6.4	6.3	6.4	6.4	6.3	6.1	6.0	6.0	5.9	4.7
7.5°	12.8	12.6	12.6	12.4	11.6	11.3	11.1	10.7	9.9	9.7	6.1
10°	28.0	28.1	27.5	26.7	26.6	25.3	24.9	24.1	22.6	21.1	8.8
12.5°	50.9	49.7	48.2	48.3	45.8	44.9	42.9	40.7	38.4	36.1	14.5
15°	103.9	100.7	102.6	97.9	92.5	86.5	80.4	72.7	66.1	59.1	20.0
17.5°	218.9	222.0	216.7	196.5	184.0	169.4	148.8	129.0	112.0	98.3	24.5
20°	388.8	393.4	375.3	357.7	327.5	294.6	260.3	221.4	184.2	152.0	27.5
21°	459.8	457.0	449.6	421.4	386.5	348.4	306.3	263.4	218.3	176.5	27.8
22°	528.4	529.7	512.4	482.9	446.7	404.4	353.1	300.1	251.5	196.5	27.3
23°	596.8	601.0	578.1	550.4	504.8	457.1	397.7	340.6	280.5	219.3	26.4
24°	660.1	657.2	641.7	606.9	558.1	502.3	440.6	371.3	304.3	238.8	25.7
25°	713.1	712.7	688.4	654.5	598.7	536.8	468.9	396.4	324.7	252.0	24.9
26°	756.4	749.3	730.1	688.8	633.8	568.4	492.1	414.7	336.2	258.7	24.0
27°	789.9	784.8	759.0	716.0	658.5	586.3	507.0	423.8	341.4	260.9	22.8
28°	812.4	806.8	779.4	735.1	672.2	597.5	514.9	427.7	341.4	258.8	21.8
29°	824.0	816.5	789.2	741.7	675.3	598.8	512.9	423.9	336.1	252.3	20.6
30°	823.1	813.8	785.1	735.7	666.0	588.1	502.2	410.3	324.0	242.7	19.2
31°	808.9	798.4	766.5	715.6	646.6	567.7	481.9	392.1	307.5	230.2	17.8
32°	780.1	766.8	735.7	685.0	616.9	537.4	452.4	364.0	282.7	211.9	16.3
33°	733.2	719.8	686.4	638.8	576.6	498.8	413.2	333.8	254.5	190.1	15.1
34°	674.5	662.2	633.4	585.5	525.8	450.1	368.2	292.1	225.3	168.4	13.7
35°	607.2	587.7	561.6	523.7	465.5	389.3	319.6	253.2	195.1	145.8	12.3
36°	516.3	519.8	492.1	445.7	397.5	337.8	270.9	211.1	163.2	124.2	11.1
37°	435.6	430.1	412.5	376.6	334.6	275.3	227.0	178.9	137.3	105.1	9.8
38°	351.4	352.6	335.4	307.8	266.1	226.4	182.7	147.0	114.9	89.4	8.6
39°	275.1	274.1	269.5	243.9	206.2	180.1	148.0	121.9	95.7	75.4	7.3
40°	207.2	208.8	197.9	182.5	160.6	139.1	117.9	97.2	79.1	63.6	5.7
42.5°	100.8	103.2	96.0	92.1	82.4	74.0	62.4	51.0	43.3	37.5	2.5
45°	49.1	47.7	47.1	45.2	42.9	38.3	34.0	29.2	25.5	22.0	1.6
47.5°	25.1	24.4	24.4	23.6	22.8	21.4	19.2	17.6	15.8	13.7	0.6
50°	7.5	7.4	7.4	7.4	7.2	7.4	7.6	7.7	7.0	6.9	0.2
52.5°	3.0	3.1	3.0	3.2	3.2	3.2	3.2	3.2	3.1	2.7	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°	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	3.5	3.1	2.5	2.1	1.9	1.8
5°	3.8	2.8	1.9	1.5	1.3	1.2
7.5°	4.0	2.5	1.5	1.1	0.8	0.7
10°	4.2	2.2	1.1	0.6	0.4	0.4
12.5°	4.2	1.8	0.8	0.4	0.3	0.3
15°	4.1	1.5	0.5	0.3	0.2	0.2
17.5°	4.0	1.1	0.4	0.2	0.1	0.2
20°	3.8	0.9	0.2	0.1	0.1	0.1
21°	3.7	0.8	0.2	0.1	0.1	0.1
22°	3.5	0.7	0.1	0.0	0.1	0.1
23°	3.3	0.5	0.1	0.0	0.0	0.0
24°	3.1	0.4	0.1	0.0	0.0	0.0
25°	2.9	0.4	0.1	0.0	0.0	0.0
26°	2.7	0.3	0.0	0.0	0.0	0.0
27°	2.5	0.2	0.0	0.0	0.0	0.0
28°	2.3	0.2	0.0	0.0	0.0	0.0
29°	2.0	0.2	0.0	0.0	0.0	0.0
30°	1.8	0.2	0.0	0.0	0.0	0.0
31°	1.4	0.1	0.0	0.0	0.0	0.0
32°	1.1	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°	0.4	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	0.4
57.5°	0.1	0.3	0.3	0.4	0.4	0.4
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	0.4	0.5	0.5
67.5°	0.2	0.4	0.4	0.4	0.4	0.5
70°	0.2	0.4	0.3	0.4	0.4	0.4
72.5°	0.2	0.4	0.3	0.3	0.4	0.4
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)