

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: P1334494

Luminaire Tested: P3A02R209835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334494
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: P3A02R209835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

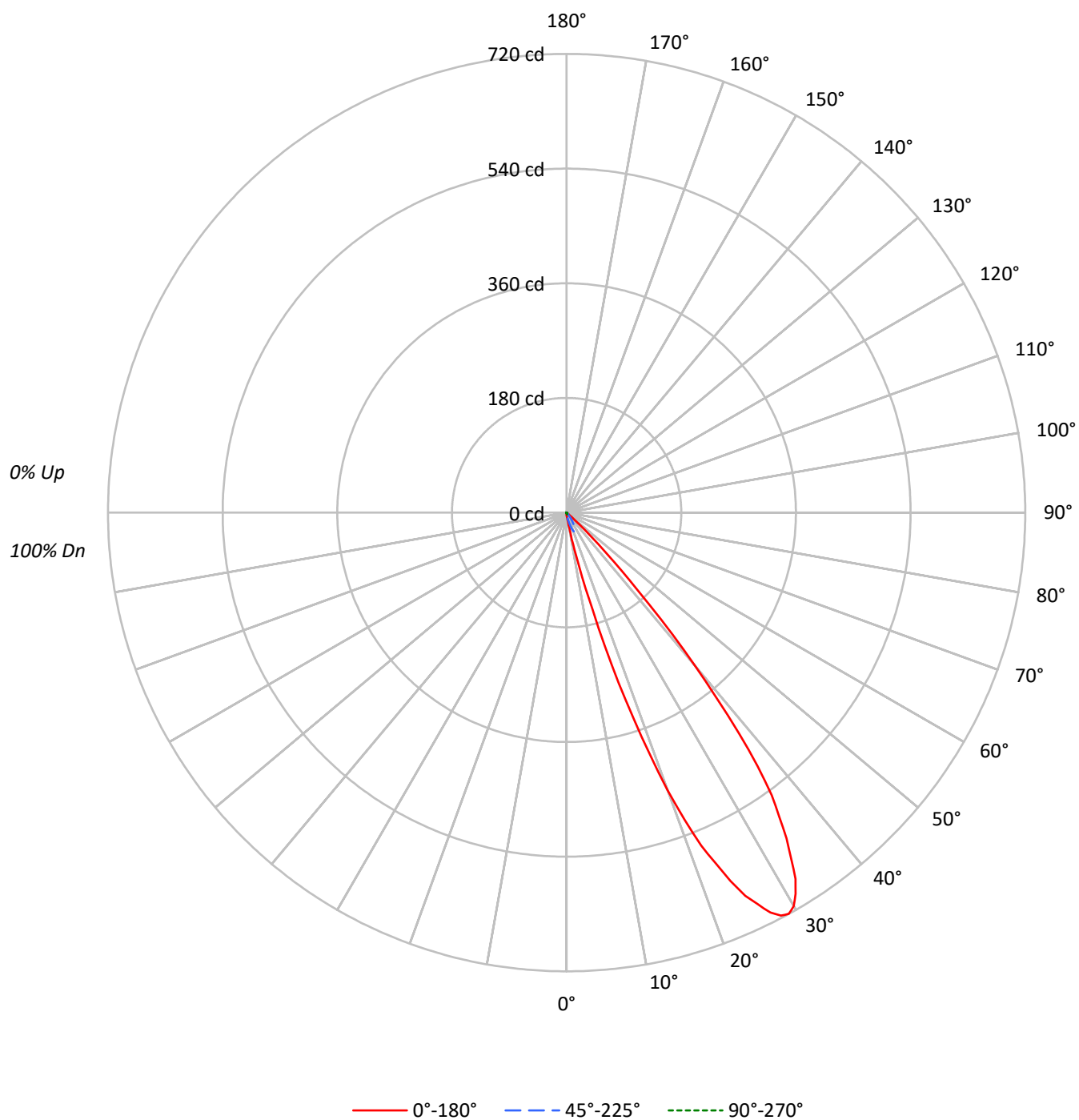
Lumens per Lamp: N/A
Luminaire Lumens: 101.1 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1334494

CATALOG NUMBER: P3A02R209835DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334494

CATALOG NUMBER: P3A02R209835DE010 E3A301WMH

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	70		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	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°	767	767	767	767	767
5°	1761	1321	726	440	374
10°	5522	2293	601	245	178
15°	35823	4222	431	91	23
20°	108113	7234	303	0	0
25°	160558	7283	169	0	0
30°	180559	5545	76	0	0
35°	155770	3319	54	0	0
40°	89711	1116	0	0	0
45°	21894	465	31	0	31
50°	2627	136	34	34	102
55°	344	0	76	76	153
60°	44	0	132	132	219
65°	52	52	208	208	259
70°	64	64	256	256	321
75°	0	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 22018 cd/sqm

TEST NUMBER: P1334494

CATALOG NUMBER: P3A02R209835DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	9.4	9.3
20°-30°	40.8	40.4
30°-40°	41.1	40.7
40°-50°	8.2	8.2
50°-60°	0.4	0.4
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°	50.6	50.1
0°-40°	91.7	90.7
0°-60°	100.4	99.3
0°-90°	101.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	101.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	8	6	3	2	2	1
15°	158	19	2	0	0	62
25°	664	30	1	0	0	299
35°	582	12	0	0	0	346
45°	71	2	0	0	0	77
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	

TEST NUMBER: P1334494

CATALOG NUMBER: P3A02R209835DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
2.5°	5.2	5.2	5.1	5.1	5.0	5.1	4.9	5.0	5.0	4.9	4.5
5°	8.0	8.2	8.1	8.1	8.0	8.1	7.9	7.7	7.5	7.5	6.0
7.5°	13.1	13.0	12.8	12.9	12.6	12.5	12.3	12.2	11.6	11.4	7.8
10°	24.8	25.4	24.9	24.8	23.2	23.1	22.0	20.4	19.1	18.3	10.3
12.5°	68.4	71.3	66.7	64.5	63.2	58.3	56.2	50.8	45.5	41.6	13.0
15°	157.8	165.0	155.8	156.4	148.7	134.6	122.2	111.6	99.1	86.4	18.6
17.5°	309.2	303.3	298.3	289.7	274.1	253.4	226.7	199.7	176.3	151.8	25.9
20°	463.3	458.1	446.6	428.0	408.0	377.3	345.6	305.0	265.7	228.9	31.0
21°	516.3	514.6	495.8	484.4	453.6	424.3	387.7	344.3	300.0	256.4	31.8
22°	563.7	553.3	543.2	526.2	495.6	463.7	423.1	377.3	329.3	280.8	31.9
23°	596.5	591.8	582.2	563.1	532.7	495.2	452.3	404.5	353.9	298.2	31.6
24°	632.8	626.8	612.8	590.5	559.8	522.8	473.8	426.4	371.4	312.7	30.9
25°	663.6	654.2	637.7	613.6	580.0	541.8	492.6	440.5	383.6	322.5	30.1
26°	683.6	678.4	657.3	631.1	595.1	555.7	505.5	451.3	391.4	327.0	29.0
27°	704.4	694.9	674.1	644.0	605.0	564.8	512.9	456.5	394.2	327.2	27.5
28°	716.3	706.0	682.5	650.8	611.5	569.9	517.1	458.2	393.6	324.4	25.7
29°	720.0	707.1	684.1	651.9	613.0	570.2	516.4	455.8	388.8	317.4	23.7
30°	713.1	699.9	678.1	646.6	608.1	565.6	510.5	447.9	380.2	307.4	21.9
31°	697.9	686.7	665.6	634.1	597.1	554.9	497.0	435.0	365.5	294.0	19.8
32°	677.8	666.8	646.1	617.6	579.9	537.4	478.6	414.8	348.3	274.1	17.7
33°	647.6	641.3	622.7	595.5	557.8	512.4	453.8	390.7	323.7	251.9	15.9
34°	617.1	609.2	596.2	566.4	525.9	480.5	421.6	357.5	293.8	227.1	14.1
35°	581.9	577.2	556.7	532.9	492.2	445.9	387.3	325.1	258.9	199.4	12.4
36°	547.9	540.5	517.3	492.1	452.6	402.4	344.6	286.2	228.7	173.5	10.5
37°	498.4	487.2	470.6	444.0	397.9	355.2	302.4	248.1	191.6	145.4	8.5
38°	440.2	435.0	412.0	385.2	347.0	306.5	254.3	208.3	158.1	121.4	6.5
39°	371.6	371.5	349.5	330.1	292.8	256.3	209.2	169.1	130.5	97.8	5.0
40°	313.4	302.6	289.0	264.7	236.0	205.1	163.8	132.3	101.3	78.8	3.9
42.5°	164.3	163.4	155.4	137.2	121.1	102.9	81.8	68.2	53.3	43.4	2.5
45°	70.6	71.0	65.5	62.8	56.5	48.9	41.3	34.5	29.5	23.9	1.5
47.5°	17.9	17.1	17.0	17.6	17.6	17.0	15.3	14.4	13.3	12.2	0.8
50°	7.7	7.5	7.3	7.3	6.9	6.6	6.1	5.6	5.1	4.6	0.4
52.5°	2.8	2.9	3.0	2.9	2.9	2.8	2.8	2.7	2.5	2.2	0.2
55°	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.0	0.0
57.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	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



TEST NUMBER: P1334494

CATALOG NUMBER: P3A02R209835DE010 E3A301WMH

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

TEST NUMBER: P1334494

CATALOG NUMBER: P3A02R209835DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	3.5	3.5	3.5	3.5	3.5	3.5
2.5°	4.0	3.6	3.0	2.6	2.5	2.4
5°	4.5	3.3	2.5	2.0	1.8	1.7
7.5°	4.9	3.0	2.0	1.5	1.3	1.2
10°	5.0	2.7	1.6	1.1	0.8	0.8
12.5°	5.1	2.3	1.2	0.7	0.5	0.5
15°	5.0	1.9	0.9	0.4	0.1	0.1
17.5°	4.6	1.6	0.5	0.1	0.0	0.0
20°	3.9	1.3	0.4	0.0	0.0	0.0
21°	3.8	1.1	0.3	0.0	0.0	0.0
22°	3.5	1.0	0.2	0.0	0.0	0.0
23°	3.2	0.9	0.2	0.0	0.0	0.0
24°	2.9	0.8	0.1	0.0	0.0	0.0
25°	2.7	0.7	0.1	0.0	0.0	0.0
26°	2.6	0.6	0.1	0.0	0.0	0.0
27°	2.3	0.5	0.0	0.0	0.0	0.0
28°	2.1	0.5	0.0	0.0	0.0	0.0
29°	1.8	0.4	0.0	0.0	0.0	0.0
30°	1.6	0.3	0.0	0.0	0.0	0.0
31°	1.3	0.3	0.0	0.0	0.0	0.0
32°	1.1	0.2	0.0	0.0	0.0	0.0
33°	0.9	0.2	0.0	0.0	0.0	0.0
34°	0.8	0.2	0.0	0.0	0.0	0.0
35°	0.7	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.1	0.0	0.0	0.0	0.0
37°	0.5	0.1	0.0	0.0	0.0	0.0
38°	0.4	0.1	0.0	0.0	0.0	0.0
39°	0.3	0.0	0.0	0.0	0.0	0.0
40°	0.3	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	0.3
52.5°	0.0	0.2	0.1	0.1	0.3	0.3
55°	0.1	0.2	0.1	0.2	0.4	0.4
57.5°	0.1	0.2	0.2	0.3	0.4	0.5
60°	0.2	0.3	0.3	0.3	0.5	0.5
62.5°	0.2	0.3	0.4	0.4	0.5	0.5
65°	0.2	0.4	0.4	0.4	0.5	0.5
67.5°	0.3	0.4	0.4	0.4	0.5	0.5
70°	0.3	0.4	0.4	0.4	0.5	0.5
72.5°	0.3	0.4	0.3	0.4	0.4	0.5
75°	0.3	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



TEST NUMBER: P1334494

CATALOG NUMBER: P3A02R209835DE010 E3A301WMH

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	0.2	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)