

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: P1334398

Luminaire Tested: P3A02R209727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334398
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: P3A02R209727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

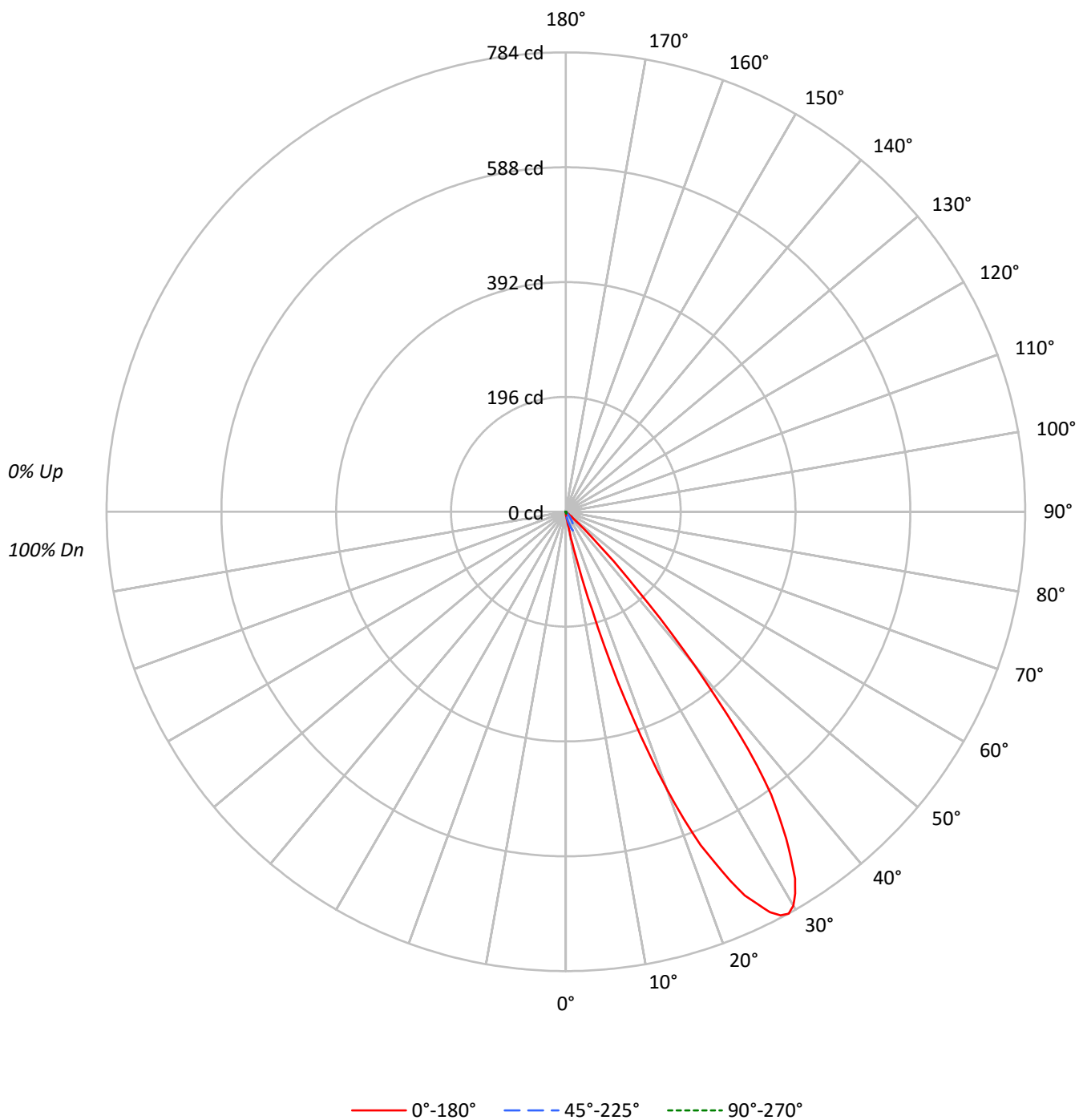
Lumens per Lamp: N/A
Luminaire Lumens: 110.0 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1334398

CATALOG NUMBER: P3A02R209727DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334398

CATALOG NUMBER: P3A02R209727DE010 E3A301WMH

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	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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	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°	833	833	833	833	833
5°	1915	1431	792	484	418
10°	6012	2494	646	267	200
15°	39001	4608	477	91	23
20°	117750	7864	327	0	0
25°	174857	7936	194	0	0
30°	196638	6052	76	0	0
35°	169663	3614	54	0	0
40°	97697	1231	0	0	0
45°	23816	496	31	0	31
50°	2866	136	34	34	102
55°	382	0	76	76	153
60°	44	0	132	132	219
65°	52	52	208	208	311
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: 23971 cd/sqm

TEST NUMBER: P1334398

CATALOG NUMBER: P3A02R209727DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	10.2	9.3
20°-30°	44.4	40.4
30°-40°	44.7	40.7
40°-50°	9.0	8.2
50°-60°	0.5	0.4
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°	55.1	50.1
0°-40°	99.9	90.8
0°-60°	109.3	99.4
0°-90°	110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	110.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	9	6	4	2	2	1
15°	172	20	2	0	0	67
25°	723	33	1	0	0	326
35°	634	14	0	0	0	377
45°	77	2	0	0	0	84
55°	1	0	0	0	0	2
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1334398

CATALOG NUMBER: P3A02R209727DE010 E3A301WMH

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°	5.7	5.7	5.6	5.6	5.5	5.6	5.4	5.5	5.5	5.4	4.9
5°	8.7	8.9	8.8	8.8	8.7	8.8	8.6	8.4	8.2	8.2	6.5
7.5°	14.3	14.2	14.0	14.1	13.8	13.6	13.4	13.3	12.7	12.4	8.5
10°	27.0	27.6	27.1	27.0	25.2	25.1	24.0	22.3	20.8	20.0	11.2
12.5°	74.4	77.6	72.7	70.3	68.9	63.5	61.2	55.3	49.6	45.3	14.2
15°	171.8	179.7	169.7	170.4	162.0	146.6	133.1	121.6	107.9	94.1	20.3
17.5°	336.7	330.3	324.8	315.6	298.5	275.9	246.9	217.5	192.0	165.4	28.2
20°	504.6	498.9	486.4	466.1	444.4	411.0	376.4	332.2	289.4	249.3	33.7
21°	562.4	560.5	540.0	527.5	494.0	462.1	422.2	374.9	326.7	279.2	34.6
22°	613.9	602.6	591.6	573.1	539.8	505.1	460.8	411.0	358.7	305.9	34.7
23°	649.7	644.5	634.1	613.2	580.1	539.3	492.6	440.5	385.4	324.7	34.4
24°	689.2	682.6	667.4	643.1	609.7	569.3	516.0	464.4	404.5	340.6	33.6
25°	722.7	712.4	694.5	668.2	631.7	590.1	536.5	479.7	417.7	351.3	32.8
26°	744.5	738.9	715.8	687.3	648.2	605.3	550.6	491.5	426.3	356.2	31.5
27°	767.1	756.9	734.2	701.4	659.0	615.1	558.6	497.2	429.3	356.4	29.9
28°	780.1	768.9	743.3	708.8	665.9	620.6	563.1	499.0	428.7	353.3	28.0
29°	784.2	770.1	745.1	709.9	667.6	621.0	562.5	496.4	423.4	345.7	25.8
30°	776.6	762.2	738.5	704.3	662.2	616.0	556.0	487.8	414.1	334.8	23.9
31°	760.0	747.9	724.9	690.6	650.3	604.4	541.3	473.7	398.1	320.2	21.6
32°	738.2	726.2	703.7	672.6	631.6	585.3	521.2	451.8	379.3	298.5	19.3
33°	705.4	698.5	678.2	648.6	607.6	558.1	494.3	425.5	352.6	274.3	17.3
34°	672.1	663.4	649.3	616.8	572.7	523.3	459.2	389.3	319.9	247.3	15.4
35°	633.8	628.6	606.4	580.4	536.1	485.6	421.8	354.1	281.9	217.2	13.5
36°	596.7	588.7	563.3	535.9	492.9	438.3	375.3	311.7	249.1	188.9	11.5
37°	542.8	530.6	512.6	483.6	433.3	386.8	329.3	270.2	208.7	158.4	9.3
38°	479.4	473.7	448.7	419.5	377.9	333.8	276.9	226.8	172.1	132.2	7.1
39°	404.7	404.6	380.6	359.6	318.8	279.1	227.8	184.1	142.1	106.5	5.5
40°	341.3	329.5	314.8	288.3	257.1	223.3	178.4	144.1	110.3	85.8	4.3
42.5°	178.9	177.9	169.3	149.4	131.9	112.1	89.1	74.2	58.1	47.3	2.7
45°	76.8	77.3	71.4	68.4	61.6	53.3	45.0	37.5	32.1	26.0	1.6
47.5°	19.5	18.7	18.5	19.2	19.2	18.6	16.7	15.7	14.5	13.3	0.9
50°	8.4	8.2	8.0	8.0	7.5	7.2	6.7	6.1	5.6	5.0	0.4
52.5°	3.1	3.2	3.3	3.2	3.2	3.1	3.1	3.0	2.7	2.4	0.2
55°	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.1	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: P1334398

CATALOG NUMBER: P3A02R209727DE010 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: P1334398

CATALOG NUMBER: P3A02R209727DE010 E3A301WMH

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	3.3	2.8	2.7	2.6
5°	4.9	3.6	2.7	2.2	2.0	1.9
7.5°	5.3	3.3	2.2	1.6	1.4	1.3
10°	5.5	2.9	1.8	1.2	0.9	0.9
12.5°	5.6	2.5	1.3	0.8	0.5	0.5
15°	5.5	2.1	1.0	0.4	0.1	0.1
17.5°	5.0	1.7	0.6	0.1	0.0	0.0
20°	4.3	1.4	0.4	0.0	0.0	0.0
21°	4.1	1.2	0.3	0.0	0.0	0.0
22°	3.8	1.1	0.2	0.0	0.0	0.0
23°	3.5	1.0	0.2	0.0	0.0	0.0
24°	3.2	0.9	0.1	0.0	0.0	0.0
25°	3.0	0.8	0.1	0.0	0.0	0.0
26°	2.8	0.7	0.1	0.0	0.0	0.0
27°	2.5	0.6	0.0	0.0	0.0	0.0
28°	2.3	0.5	0.0	0.0	0.0	0.0
29°	2.0	0.4	0.0	0.0	0.0	0.0
30°	1.7	0.3	0.0	0.0	0.0	0.0
31°	1.4	0.3	0.0	0.0	0.0	0.0
32°	1.2	0.2	0.0	0.0	0.0	0.0
33°	1.0	0.2	0.0	0.0	0.0	0.0
34°	0.9	0.2	0.0	0.0	0.0	0.0
35°	0.8	0.2	0.0	0.0	0.0	0.0
36°	0.6	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	0.6
65°	0.2	0.4	0.4	0.4	0.5	0.6
67.5°	0.3	0.4	0.4	0.4	0.5	0.6
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: P1334398

CATALOG NUMBER: P3A02R209727DE010 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)