

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: P1334297

Luminaire Tested: P3A02R209024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334297
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: P3A02R209024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

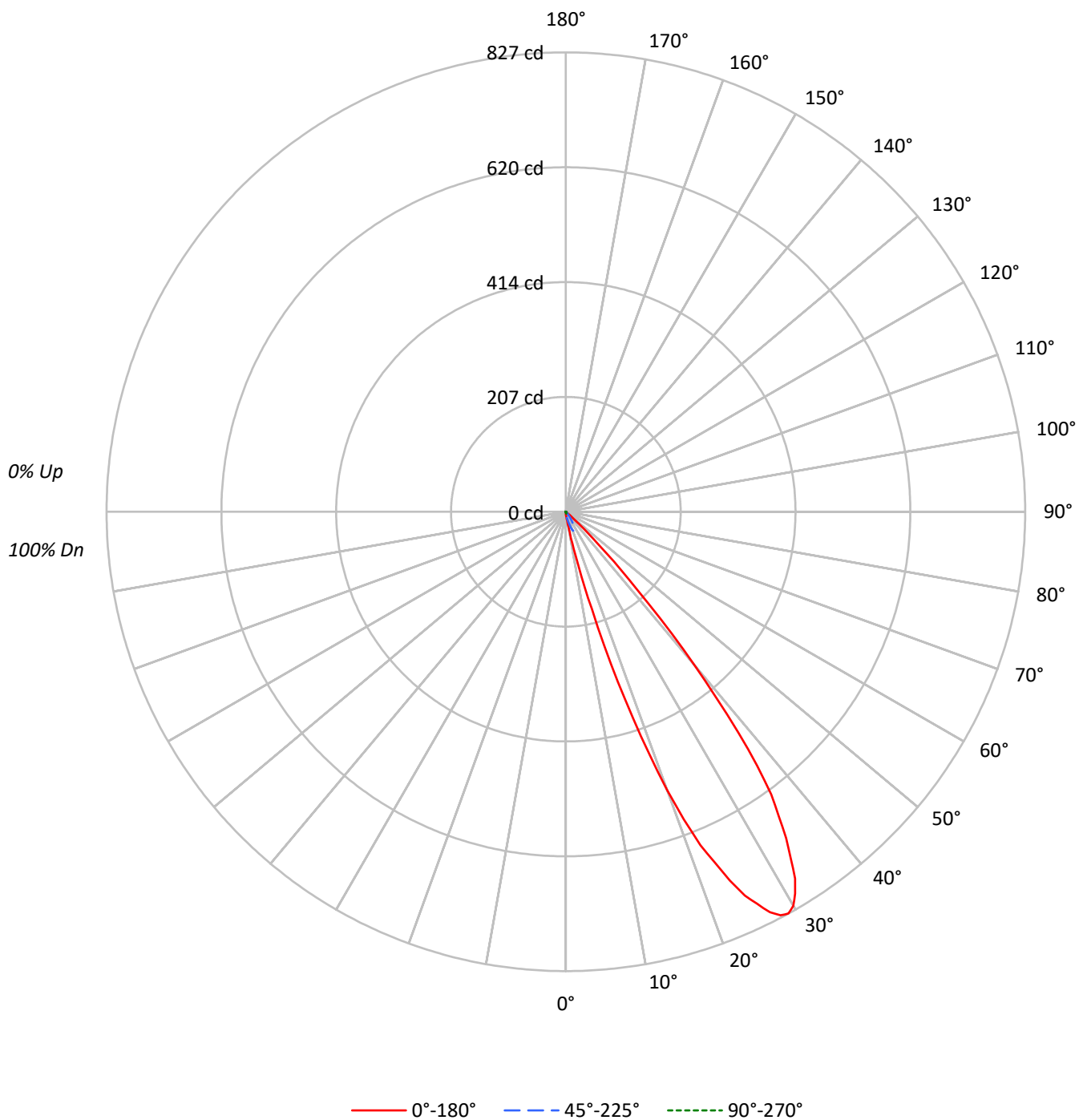
Lumens per Lamp: N/A
Luminaire Lumens: 116.0 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1334297

CATALOG NUMBER: P3A02R209024DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334297

CATALOG NUMBER: P3A02R209024DE010 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	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	99	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	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	58	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	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	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	877	877	877	877	877
5°	2025	1497	836	506	440
10°	6346	2627	690	289	200
15°	41135	4858	499	91	23
20°	124167	8307	350	0	0
25°	184390	8371	194	0	0
30°	207374	6381	76	0	0
35°	178926	3801	54	0	0
40°	103022	1288	0	0	0
45°	25119	527	31	0	31
50°	3002	136	34	34	102
55°	421	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: 25305 cd/sqm

TEST NUMBER: P1334297

CATALOG NUMBER: P3A02R209024DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	10.7	9.3
20°-30°	46.9	40.4
30°-40°	47.2	40.7
40°-50°	9.5	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°	58.1	50.1
0°-40°	105.3	90.8
0°-60°	115.3	99.4
0°-90°	116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	116.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	9	7	4	2	2	1
15°	181	21	2	0	0	71
25°	762	35	1	0	0	344
35°	668	14	0	0	0	398
45°	81	2	0	0	0	88
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: P1334297

CATALOG NUMBER: P3A02R209024DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	6.0	6.0	5.9	5.9	5.8	5.9	5.7	5.8	5.8	5.7	5.2
5°	9.2	9.4	9.3	9.3	9.2	9.3	9.1	8.8	8.6	8.6	6.8
7.5°	15.0	14.9	14.7	14.8	14.5	14.3	14.1	14.0	13.4	13.0	8.9
10°	28.5	29.2	28.6	28.5	26.6	26.5	25.3	23.5	21.9	21.0	11.8
12.5°	78.5	81.9	76.6	74.1	72.6	66.9	64.5	58.3	52.3	47.8	14.9
15°	181.2	189.5	178.9	179.6	170.8	154.6	140.4	128.2	113.8	99.2	21.4
17.5°	355.1	348.3	342.6	332.8	314.8	291.0	260.4	229.3	202.5	174.4	29.8
20°	532.1	526.1	512.9	491.6	468.6	433.4	397.0	350.3	305.2	262.9	35.6
21°	593.0	591.0	569.5	556.3	520.9	487.3	445.3	395.4	344.6	294.5	36.5
22°	647.4	635.4	623.9	604.4	569.2	532.6	485.9	433.4	378.2	322.6	36.6
23°	685.1	679.6	668.7	646.7	611.8	568.7	519.5	464.5	406.4	342.4	36.3
24°	726.8	719.8	703.8	678.2	642.9	600.4	544.2	489.7	426.5	359.2	35.5
25°	762.1	751.3	732.4	704.7	666.2	622.3	565.8	505.9	440.5	370.4	34.6
26°	785.1	779.2	754.9	724.8	683.5	638.3	580.6	518.3	449.6	375.6	33.3
27°	809.0	798.1	774.2	739.6	694.9	648.7	589.0	524.3	452.7	375.8	31.6
28°	822.7	810.9	783.8	747.4	702.3	654.5	593.9	526.2	452.1	372.5	29.6
29°	827.0	812.1	785.7	748.7	704.1	654.9	593.1	523.5	446.5	364.5	27.3
30°	819.0	803.8	778.8	742.7	698.4	649.6	586.3	514.4	436.6	353.1	25.2
31°	801.5	788.7	764.5	728.3	685.7	637.3	570.8	499.6	419.8	337.7	22.7
32°	778.5	765.8	742.0	709.3	666.1	617.2	549.7	476.4	400.0	314.8	20.3
33°	743.8	736.6	715.2	684.0	640.7	588.5	521.3	448.7	371.8	289.3	18.2
34°	708.8	699.6	684.7	650.5	604.0	551.9	484.2	410.5	337.4	260.8	16.2
35°	668.4	662.9	639.4	612.1	565.3	512.1	444.8	373.4	297.3	229.0	14.2
36°	629.2	620.8	594.1	565.1	519.8	462.2	395.8	328.7	262.7	199.2	12.1
37°	572.4	559.6	540.5	510.0	456.9	407.9	347.3	285.0	220.1	167.0	9.8
38°	505.6	499.6	473.2	442.4	398.5	352.0	292.0	239.2	181.5	139.4	7.5
39°	426.7	426.6	401.4	379.2	336.2	294.4	240.3	194.2	149.9	112.3	5.8
40°	359.9	347.5	331.9	304.0	271.1	235.5	188.2	152.0	116.3	90.5	4.5
42.5°	188.7	187.6	178.5	157.5	139.1	118.2	94.0	78.3	61.2	49.9	2.8
45°	81.0	81.6	75.2	72.1	64.9	56.2	47.5	39.6	33.9	27.5	1.7
47.5°	20.5	19.7	19.5	20.2	20.2	19.6	17.6	16.5	15.3	14.0	0.9
50°	8.8	8.6	8.4	8.4	7.9	7.6	7.1	6.4	5.9	5.3	0.4
52.5°	3.3	3.4	3.5	3.4	3.4	3.3	3.3	3.2	2.8	2.5	0.2
55°	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.2	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: P1334297

CATALOG NUMBER: P3A02R209024DE010 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: P1334297

CATALOG NUMBER: P3A02R209024DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	4.6	4.1	3.5	2.9	2.8	2.7
5°	5.2	3.8	2.8	2.3	2.1	2.0
7.5°	5.6	3.5	2.3	1.7	1.5	1.4
10°	5.8	3.1	1.9	1.3	0.9	0.9
12.5°	5.9	2.6	1.4	0.8	0.5	0.5
15°	5.8	2.2	1.1	0.4	0.1	0.1
17.5°	5.3	1.8	0.6	0.1	0.0	0.0
20°	4.5	1.5	0.4	0.0	0.0	0.0
21°	4.3	1.3	0.3	0.0	0.0	0.0
22°	4.0	1.2	0.2	0.0	0.0	0.0
23°	3.7	1.1	0.2	0.0	0.0	0.0
24°	3.4	0.9	0.1	0.0	0.0	0.0
25°	3.2	0.8	0.1	0.0	0.0	0.0
26°	2.9	0.7	0.1	0.0	0.0	0.0
27°	2.6	0.6	0.0	0.0	0.0	0.0
28°	2.4	0.5	0.0	0.0	0.0	0.0
29°	2.1	0.4	0.0	0.0	0.0	0.0
30°	1.8	0.3	0.0	0.0	0.0	0.0
31°	1.5	0.3	0.0	0.0	0.0	0.0
32°	1.3	0.2	0.0	0.0	0.0	0.0
33°	1.1	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: P1334297

CATALOG NUMBER: P3A02R209024DE010 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)