

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: P1334478

Luminaire Tested: P3A02R209830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334478
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: P3A02R209830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

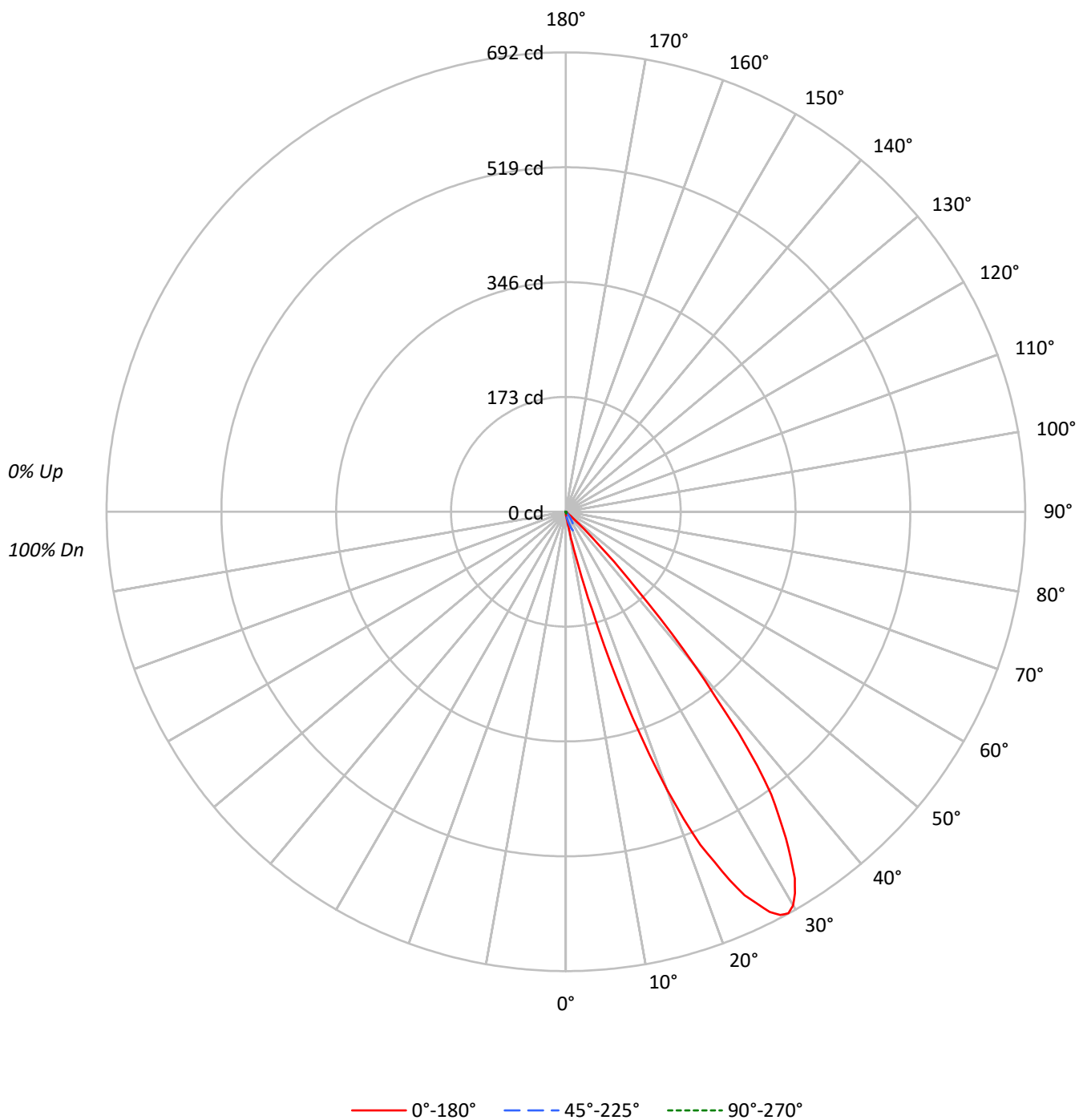
Lumens per Lamp: N/A
Luminaire Lumens: 97.1 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	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	98	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°	724	724	724	724	724
5°	1695	1255	704	418	374
10°	5299	2204	579	245	178
15°	34393	4064	409	91	23
20°	103819	6931	280	0	0
25°	154194	7017	169	0	0
30°	173394	5317	76	0	0
35°	149613	3186	54	0	0
40°	86161	1088	0	0	0
45°	21025	434	31	0	31
50°	2524	136	34	34	102
55°	344	0	76	76	153
60°	44	0	132	132	175
65°	52	52	208	208	259
70°	64	64	256	256	256
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: 21149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	9.0	9.3
20°-30°	39.2	40.4
30°-40°	39.5	40.6
40°-50°	7.9	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°	48.6	50.1
0°-40°	88.1	90.7
0°-60°	96.4	99.3
0°-90°	97.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	97.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	8	6	3	2	2	1
15°	152	18	2	0	0	59
25°	637	29	1	0	0	287
35°	559	12	0	0	0	333
45°	68	1	0	0	0	74
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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2.5°	5.0	5.0	4.9	4.9	4.8	4.9	4.8	4.8	4.8	4.8	4.3
5°	7.7	7.8	7.7	7.7	7.7	7.7	7.6	7.4	7.2	7.2	5.7
7.5°	12.6	12.5	12.3	12.4	12.1	12.0	11.8	11.7	11.2	10.9	7.5
10°	23.8	24.4	23.9	23.8	22.3	22.2	21.1	19.6	18.3	17.6	9.9
12.5°	65.6	68.5	64.1	62.0	60.7	56.0	53.9	48.8	43.7	40.0	12.5
15°	151.5	158.5	149.6	150.2	142.8	129.3	117.4	107.2	95.1	83.0	17.9
17.5°	296.9	291.3	286.4	278.3	263.2	243.3	217.7	191.8	169.3	145.8	24.9
20°	444.9	439.9	428.9	411.1	391.9	362.4	331.9	293.0	255.2	219.8	29.7
21°	495.9	494.2	476.2	465.2	435.6	407.4	372.3	330.6	288.1	246.2	30.5
22°	541.4	531.4	521.7	505.4	476.0	445.4	406.3	362.4	316.3	269.7	30.6
23°	572.9	568.3	559.2	540.8	511.6	475.6	434.4	388.4	339.9	286.4	30.4
24°	607.7	601.9	588.6	567.1	537.6	502.1	455.1	409.5	356.7	300.4	29.7
25°	637.3	628.2	612.4	589.3	557.1	520.4	473.1	423.0	368.4	309.8	29.0
26°	656.5	651.6	631.2	606.1	571.6	533.7	485.5	433.4	375.9	314.1	27.8
27°	676.5	667.4	647.4	618.5	581.1	542.4	492.5	438.4	378.6	314.3	26.4
28°	687.9	678.1	655.4	625.0	587.2	547.3	496.6	440.0	378.1	311.5	24.7
29°	691.5	679.1	657.0	626.0	588.7	547.6	496.0	437.7	373.4	304.8	22.8
30°	684.8	672.2	651.2	621.0	584.0	543.2	490.3	430.2	365.1	295.2	21.0
31°	670.2	659.5	639.2	609.0	573.4	532.9	477.3	417.7	351.0	282.4	19.0
32°	651.0	640.4	620.5	593.1	557.0	516.1	459.6	398.4	334.5	263.2	17.0
33°	622.0	615.9	598.1	571.9	535.8	492.1	435.9	375.2	310.9	241.9	15.2
34°	592.7	585.0	572.5	543.9	505.0	461.5	404.9	343.3	282.1	218.1	13.6
35°	558.9	554.3	534.7	511.8	472.7	428.2	372.0	312.2	248.6	191.5	11.9
36°	526.2	519.1	496.8	472.6	434.6	386.5	331.0	274.8	219.7	166.6	10.1
37°	478.6	467.9	452.0	426.5	382.1	341.1	290.4	238.3	184.0	139.7	8.2
38°	422.8	417.7	395.7	370.0	333.3	294.4	244.2	200.0	151.8	116.6	6.2
39°	356.8	356.8	335.6	317.1	281.2	246.1	200.9	162.4	125.3	93.9	4.8
40°	301.0	290.6	277.6	254.2	226.7	196.9	157.3	127.1	97.2	75.7	3.8
42.5°	157.8	156.9	149.3	131.7	116.3	98.8	78.6	65.5	51.2	41.7	2.4
45°	67.8	68.2	62.9	60.3	54.3	47.0	39.7	33.1	28.3	23.0	1.4
47.5°	17.2	16.5	16.3	16.9	16.9	16.4	14.7	13.8	12.8	11.7	0.8
50°	7.4	7.2	7.0	7.0	6.6	6.3	5.9	5.4	4.9	4.4	0.4
52.5°	2.7	2.8	2.9	2.8	2.8	2.7	2.7	2.6	2.4	2.1	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



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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°	3.3	3.3	3.3	3.3	3.3	3.3
2.5°	3.9	3.4	2.9	2.5	2.4	2.3
5°	4.3	3.2	2.4	1.9	1.8	1.7
7.5°	4.7	2.9	1.9	1.4	1.2	1.1
10°	4.8	2.6	1.6	1.1	0.8	0.8
12.5°	4.9	2.2	1.1	0.7	0.4	0.4
15°	4.8	1.8	0.9	0.4	0.1	0.1
17.5°	4.4	1.5	0.5	0.1	0.0	0.0
20°	3.8	1.2	0.4	0.0	0.0	0.0
21°	3.6	1.1	0.3	0.0	0.0	0.0
22°	3.3	1.0	0.2	0.0	0.0	0.0
23°	3.1	0.9	0.2	0.0	0.0	0.0
24°	2.8	0.8	0.1	0.0	0.0	0.0
25°	2.6	0.7	0.1	0.0	0.0	0.0
26°	2.5	0.6	0.1	0.0	0.0	0.0
27°	2.2	0.5	0.0	0.0	0.0	0.0
28°	2.0	0.4	0.0	0.0	0.0	0.0
29°	1.8	0.4	0.0	0.0	0.0	0.0
30°	1.5	0.3	0.0	0.0	0.0	0.0
31°	1.2	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°	0.4	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	0.4
60°	0.2	0.3	0.3	0.3	0.4	0.4
62.5°	0.2	0.3	0.4	0.4	0.4	0.5
65°	0.2	0.4	0.4	0.4	0.4	0.5
67.5°	0.3	0.4	0.4	0.4	0.4	0.5
70°	0.3	0.4	0.4	0.4	0.4	0.4
72.5°	0.3	0.4	0.3	0.4	0.4	0.4
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



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

(END OF REPORT)