

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: P1334510

Luminaire Tested: P3A02R209840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334510
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: P3A02R209840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

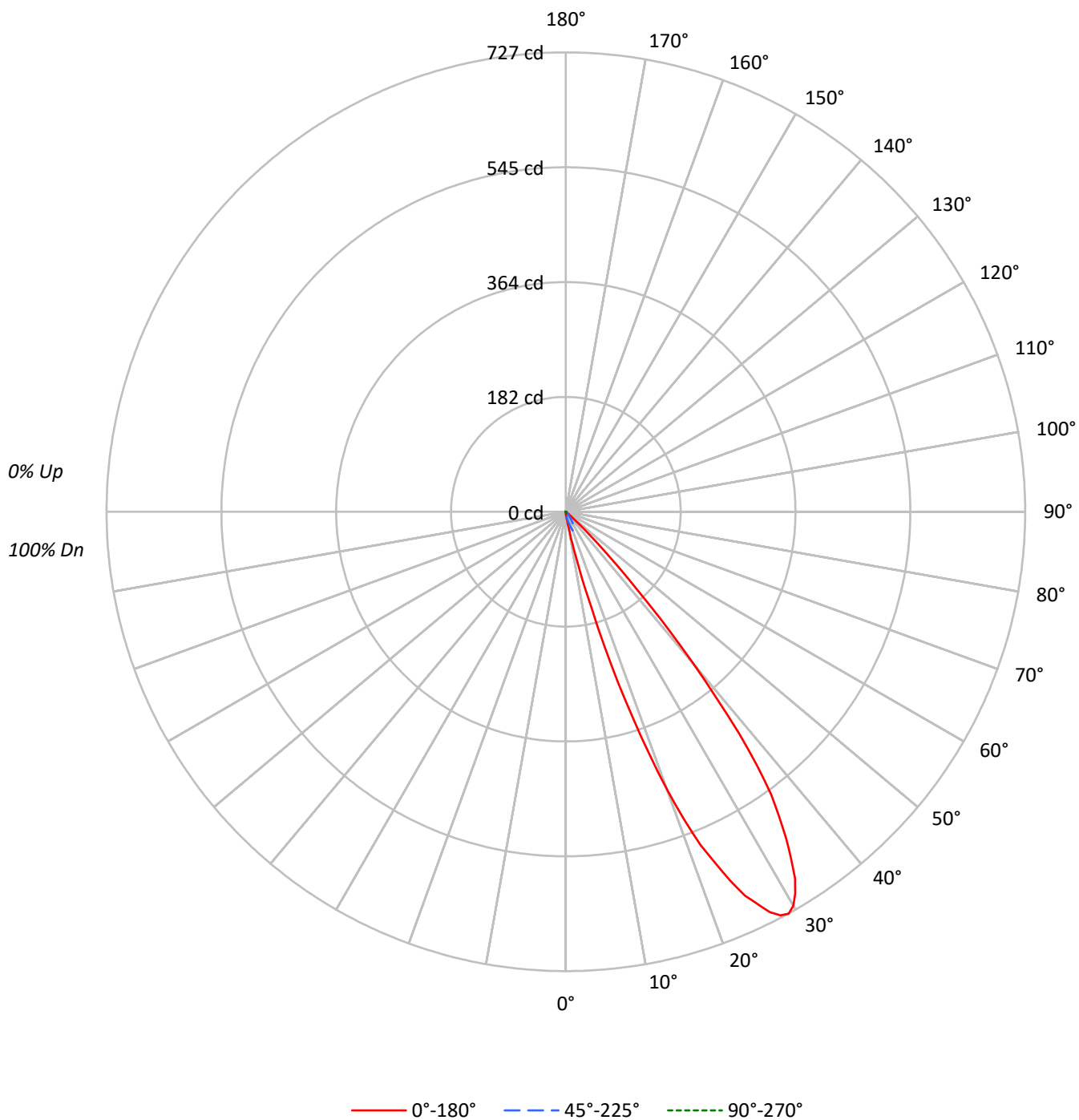
Lumens per Lamp: N/A
Luminaire Lumens: 102.1 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	1783	1321	726	440	396
10°	5589	2316	601	245	178
15°	36186	4268	431	91	23
20°	109186	7304	303	0	0
25°	162155	7355	169	0	0
30°	182332	5596	76	0	0
35°	157323	3346	54	0	0
40°	90598	1145	0	0	0
45°	22111	465	31	0	31
50°	2661	136	34	34	102
55°	344	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: 22235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	9.5	9.3
20°-30°	41.2	40.4
30°-40°	41.5	40.7
40°-50°	8.3	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°	51.1	50.1
0°-40°	92.6	90.7
0°-60°	101.4	99.3
0°-90°	102.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	102.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	8	6	3	2	2	1
15°	159	19	2	0	0	62
25°	670	30	1	0	0	302
35°	588	12	0	0	0	350
45°	71	2	0	0	0	78
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
2.5°	5.3	5.3	5.2	5.2	5.1	5.2	5.0	5.1	5.1	5.0	4.5
5°	8.1	8.2	8.1	8.1	8.1	8.1	8.0	7.8	7.6	7.6	6.0
7.5°	13.2	13.1	13.0	13.0	12.8	12.6	12.4	12.3	11.8	11.5	7.9
10°	25.1	25.6	25.2	25.1	23.4	23.3	22.2	20.6	19.2	18.5	10.4
12.5°	69.0	72.0	67.4	65.1	63.9	58.9	56.7	51.3	46.0	42.0	13.1
15°	159.4	166.7	157.3	158.0	150.2	135.9	123.4	112.7	100.0	87.3	18.8
17.5°	312.2	306.3	301.2	292.6	276.8	255.9	228.9	201.6	178.0	153.3	26.2
20°	467.9	462.6	451.0	432.2	412.1	381.1	349.1	308.1	268.4	231.2	31.3
21°	521.5	519.7	500.7	489.2	458.1	428.5	391.5	347.7	303.0	258.9	32.1
22°	569.3	558.7	548.6	531.4	500.5	468.3	427.2	381.1	332.6	283.6	32.2
23°	602.4	597.6	588.0	568.6	537.9	500.1	456.8	408.5	357.4	301.1	31.9
24°	639.1	633.0	618.9	596.3	565.3	527.9	478.5	430.6	375.1	315.8	31.2
25°	670.2	660.6	644.0	619.6	585.8	547.2	497.5	444.8	387.4	325.7	30.4
26°	690.3	685.2	663.8	637.3	601.0	561.2	510.5	455.8	395.3	330.3	29.2
27°	711.3	701.8	680.8	650.4	611.0	570.4	517.9	461.0	398.1	330.5	27.8
28°	723.4	713.0	689.2	657.2	617.5	575.5	522.2	462.7	397.5	327.6	26.0
29°	727.2	714.1	690.9	658.3	619.1	575.9	521.5	460.3	392.6	320.6	24.0
30°	720.1	706.8	684.8	653.0	614.1	571.2	515.5	452.3	383.9	310.5	22.1
31°	704.8	693.5	672.2	640.4	603.0	560.4	501.9	439.3	369.1	297.0	20.0
32°	684.5	673.4	652.5	623.7	585.7	542.7	483.3	418.9	351.7	276.8	17.9
33°	654.1	647.7	628.9	601.4	563.4	517.5	458.3	394.6	326.9	254.4	16.0
34°	623.2	615.2	602.1	572.0	531.1	485.3	425.8	361.0	296.7	229.3	14.3
35°	587.7	582.9	562.3	538.2	497.1	450.3	391.2	328.3	261.4	201.4	12.5
36°	553.3	545.9	522.4	496.9	457.0	406.4	348.0	289.0	231.0	175.2	10.6
37°	503.3	492.0	475.3	448.4	401.8	358.7	305.4	250.6	193.5	146.9	8.6
38°	444.6	439.3	416.1	389.0	350.4	309.5	256.8	210.3	159.6	122.6	6.6
39°	375.2	375.1	352.9	333.4	295.7	258.8	211.3	170.7	131.8	98.7	5.1
40°	316.5	305.6	291.9	267.3	238.4	207.1	165.5	133.6	102.3	79.6	4.0
42.5°	165.9	165.0	156.9	138.5	122.3	103.9	82.6	68.8	53.9	43.9	2.5
45°	71.3	71.7	66.2	63.4	57.1	49.4	41.7	34.8	29.8	24.2	1.5
47.5°	18.0	17.3	17.1	17.8	17.8	17.2	15.5	14.5	13.4	12.3	0.8
50°	7.8	7.6	7.4	7.4	6.9	6.7	6.2	5.6	5.2	4.6	0.4
52.5°	2.9	3.0	3.1	3.0	3.0	2.9	2.9	2.8	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



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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°	3.5	3.5	3.5	3.5	3.5	3.5
2.5°	4.1	3.6	3.1	2.6	2.5	2.4
5°	4.5	3.3	2.5	2.0	1.9	1.8
7.5°	4.9	3.1	2.0	1.5	1.3	1.2
10°	5.1	2.7	1.7	1.1	0.8	0.8
12.5°	5.2	2.3	1.2	0.7	0.5	0.5
15°	5.1	1.9	0.9	0.4	0.1	0.1
17.5°	4.6	1.6	0.6	0.1	0.0	0.0
20°	4.0	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°	3.0	0.8	0.1	0.0	0.0	0.0
25°	2.8	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	0.6	0.0	0.0	0.0	0.0
28°	2.1	0.5	0.0	0.0	0.0	0.0
29°	1.9	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°	0.6	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



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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)