

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: P1334138

Luminaire Tested: P3A02R159827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

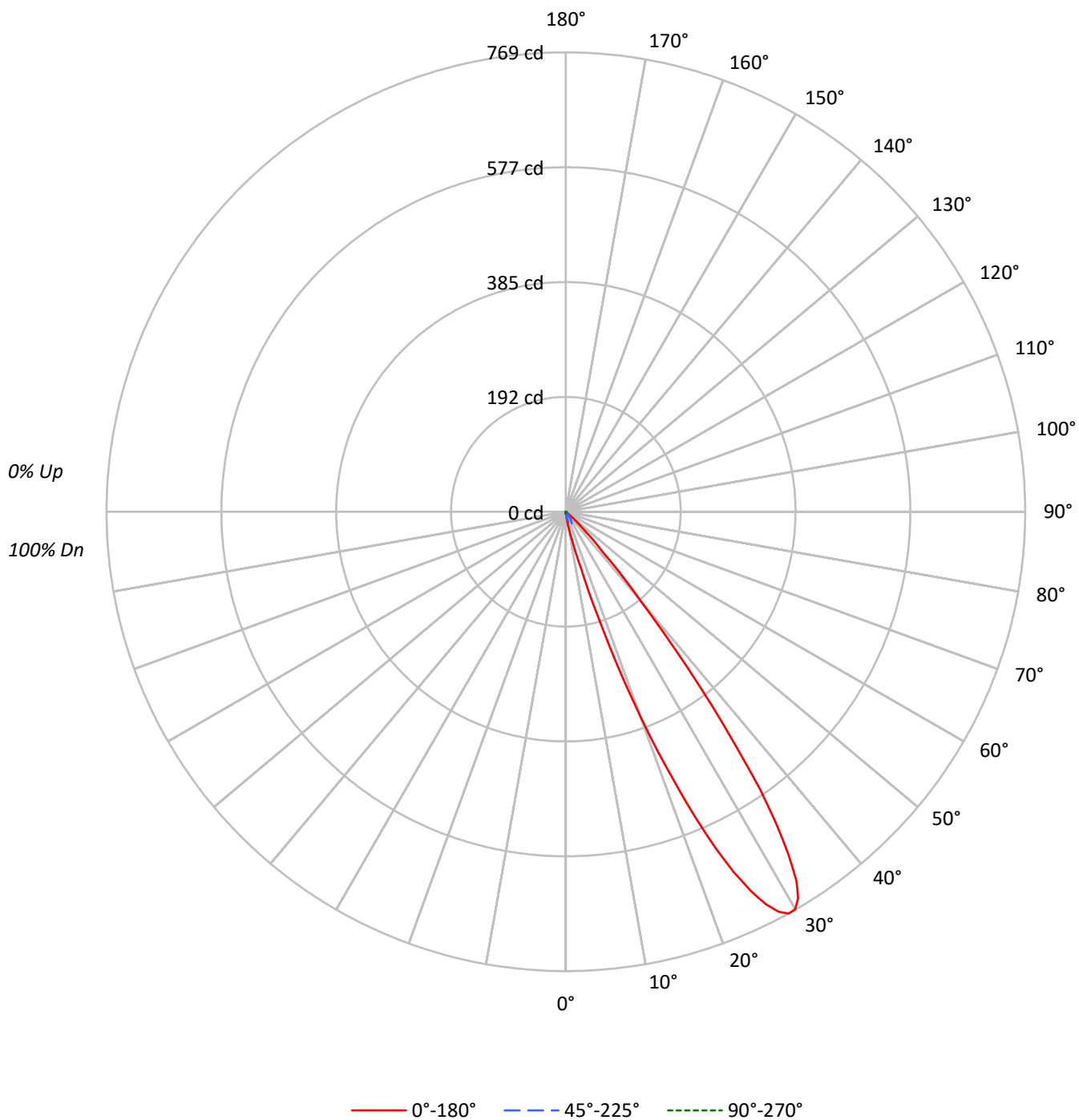
Lumens per Lamp: N/A
Luminaire Lumens: 84.0 lumens
Efficiency: N/A
Efficacy: 23.3 lumens/watt
Spacing Criteria (0/90/45): 2.34 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	67	64		71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	52	47	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	42	41
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	614	614	614	614	614
5°	1321	969	572	308	242
10°	5812	1848	445	134	89
15°	22021	4245	318	45	45
20°	84684	5997	187	23	23
25°	161017	5613	97	0	0
30°	194511	4532	51	0	0
35°	151701	3078	27	0	0
40°	55361	1517	29	0	29
45°	14203	465	31	0	62
50°	2388	68	34	34	68
55°	306	0	76	76	153
60°	44	44	88	132	219
65°	52	52	156	208	259
70°	64	64	192	192	256
75°	85	85	254	169	254
80°	0	126	253	253	253
85°	0	252	503	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	6.4	7.7
20°-30°	35.7	42.5
30°-40°	34.5	41.1
40°-50°	6.0	7.1
50°-60°	0.4	0.5
60°-70°	0.3	0.3
70°-80°	0.2	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°	42.5	50.6
0°-40°	77.0	91.7
0°-60°	83.5	99.3
0°-90°	84.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	84.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	6	4	3	1	1	1
15°	97	19	1	0	0	43
25°	666	23	0	0	0	298
35°	567	12	0	0	0	326
45°	46	2	0	0	0	49
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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
2.5°	4.1	3.9	4.0	4.0	4.0	4.0	4.0	3.8	3.8	3.9	3.5
5°	6.0	6.0	5.9	6.0	6.0	5.9	5.7	5.6	5.6	5.5	4.4
7.5°	11.9	11.8	11.8	11.6	10.8	10.5	10.4	10.0	9.2	9.1	5.7
10°	26.1	26.2	25.7	24.9	24.8	23.6	23.2	22.5	21.1	19.7	8.3
12.5°	47.5	46.4	45.0	45.1	42.7	41.9	40.0	38.0	35.9	33.7	13.6
15°	97.0	94.0	95.8	91.4	86.4	80.7	75.0	67.8	61.7	55.2	18.7
17.5°	204.3	207.2	202.2	183.4	171.8	158.1	138.9	120.4	104.5	91.8	22.9
20°	362.9	367.2	350.3	333.9	305.7	275.0	242.9	206.6	171.9	141.9	25.7
21°	429.1	426.5	419.6	393.3	360.8	325.1	285.9	245.9	203.8	164.7	25.9
22°	493.2	494.4	478.3	450.7	416.9	377.4	329.5	280.1	234.8	183.4	25.5
23°	557.0	560.9	539.5	513.7	471.1	426.6	371.2	317.9	261.8	204.7	24.7
24°	616.1	613.4	598.9	566.4	520.9	468.8	411.3	346.5	284.0	222.9	24.0
25°	665.5	665.2	642.5	610.9	558.8	501.1	437.6	370.0	303.1	235.2	23.2
26°	706.0	699.4	681.5	642.9	591.5	530.5	459.3	387.1	313.8	241.5	22.4
27°	737.2	732.5	708.4	668.3	614.6	547.2	473.2	395.6	318.7	243.5	21.3
28°	758.2	753.0	727.5	686.1	627.4	557.7	480.5	399.2	318.7	241.5	20.3
29°	769.1	762.0	736.5	692.3	630.3	558.9	478.7	395.6	313.7	235.5	19.2
30°	768.2	759.5	732.8	686.7	621.6	548.9	468.7	383.0	302.4	226.5	17.9
31°	755.0	745.2	715.4	667.9	603.5	529.9	449.7	366.0	287.0	214.8	16.6
32°	728.1	715.7	686.6	639.3	575.7	501.5	422.2	339.8	263.8	197.7	15.2
33°	684.3	671.8	640.6	596.2	538.1	465.6	385.7	311.6	237.5	177.4	14.1
34°	629.5	618.1	591.2	546.5	490.8	420.1	343.7	272.6	210.2	157.2	12.8
35°	566.7	548.5	524.2	488.8	434.5	363.4	298.3	236.3	182.1	136.0	11.5
36°	481.8	485.1	459.3	416.0	371.0	315.2	252.8	197.0	152.3	115.9	10.4
37°	406.6	401.4	385.0	351.5	312.3	257.0	211.9	167.0	128.1	98.1	9.2
38°	328.0	329.1	313.0	287.3	248.4	211.3	170.5	137.2	107.2	83.4	8.0
39°	256.7	255.8	251.5	227.6	192.4	168.1	138.2	113.7	89.3	70.4	6.8
40°	193.4	194.9	184.7	170.4	149.9	129.8	110.1	90.7	73.9	59.3	5.3
42.5°	94.0	96.3	89.6	86.0	76.9	69.0	58.3	47.6	40.4	35.0	2.4
45°	45.8	44.5	44.0	42.2	40.0	35.8	31.7	27.2	23.8	20.5	1.5
47.5°	23.5	22.8	22.8	22.1	21.3	19.9	17.9	16.4	14.8	12.7	0.6
50°	7.0	6.9	6.9	6.9	6.7	6.9	7.1	7.2	6.5	6.5	0.2
52.5°	2.8	2.9	2.8	3.0	3.0	2.9	3.0	2.9	2.9	2.5	0.0
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	0.9	1.0	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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°	2.8	2.8	2.8	2.8	2.8	2.8
2.5°	3.3	2.9	2.4	2.0	1.8	1.7
5°	3.5	2.6	1.8	1.4	1.2	1.1
7.5°	3.8	2.4	1.4	1.0	0.7	0.7
10°	3.9	2.0	1.1	0.6	0.4	0.4
12.5°	3.9	1.6	0.7	0.3	0.2	0.2
15°	3.8	1.4	0.5	0.2	0.2	0.2
17.5°	3.8	1.1	0.3	0.2	0.1	0.2
20°	3.5	0.8	0.2	0.1	0.1	0.1
21°	3.4	0.7	0.2	0.1	0.1	0.1
22°	3.3	0.7	0.1	0.0	0.1	0.1
23°	3.1	0.5	0.1	0.0	0.0	0.0
24°	2.9	0.4	0.1	0.0	0.0	0.0
25°	2.7	0.4	0.1	0.0	0.0	0.0
26°	2.5	0.2	0.0	0.0	0.0	0.0
27°	2.3	0.2	0.0	0.0	0.0	0.0
28°	2.1	0.2	0.0	0.0	0.0	0.0
29°	1.9	0.2	0.0	0.0	0.0	0.0
30°	1.6	0.2	0.0	0.0	0.0	0.0
31°	1.3	0.1	0.0	0.0	0.0	0.0
32°	1.1	0.1	0.0	0.0	0.0	0.0
33°	0.7	0.1	0.0	0.0	0.0	0.0
34°	0.5	0.1	0.0	0.0	0.0	0.0
35°	0.4	0.1	0.0	0.0	0.0	0.0
36°	0.2	0.1	0.0	0.0	0.0	0.1
37°	0.2	0.1	0.0	0.0	0.0	0.1
38°	0.2	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.2
45°	0.0	0.1	0.0	0.0	0.1	0.2
47.5°	0.0	0.1	0.0	0.0	0.2	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.2
52.5°	0.0	0.2	0.1	0.2	0.2	0.3
55°	0.1	0.2	0.2	0.2	0.3	0.4
57.5°	0.1	0.2	0.2	0.3	0.4	0.4
60°	0.2	0.2	0.3	0.3	0.5	0.5
62.5°	0.2	0.3	0.3	0.3	0.5	0.5
65°	0.2	0.3	0.3	0.4	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.4	0.5
70°	0.2	0.3	0.2	0.3	0.4	0.4
72.5°	0.2	0.3	0.2	0.2	0.3	0.4
75°	0.2	0.3	0.2	0.2	0.3	0.3
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.2	0.2	0.1	0.2	0.2
85°	0.2	0.2	0.2	0.1	0.1	0.1
87.5°	0.2	0.2	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)