

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: P1333987

Luminaire Tested: P3A02R159027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1333987
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: P3A02R159027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

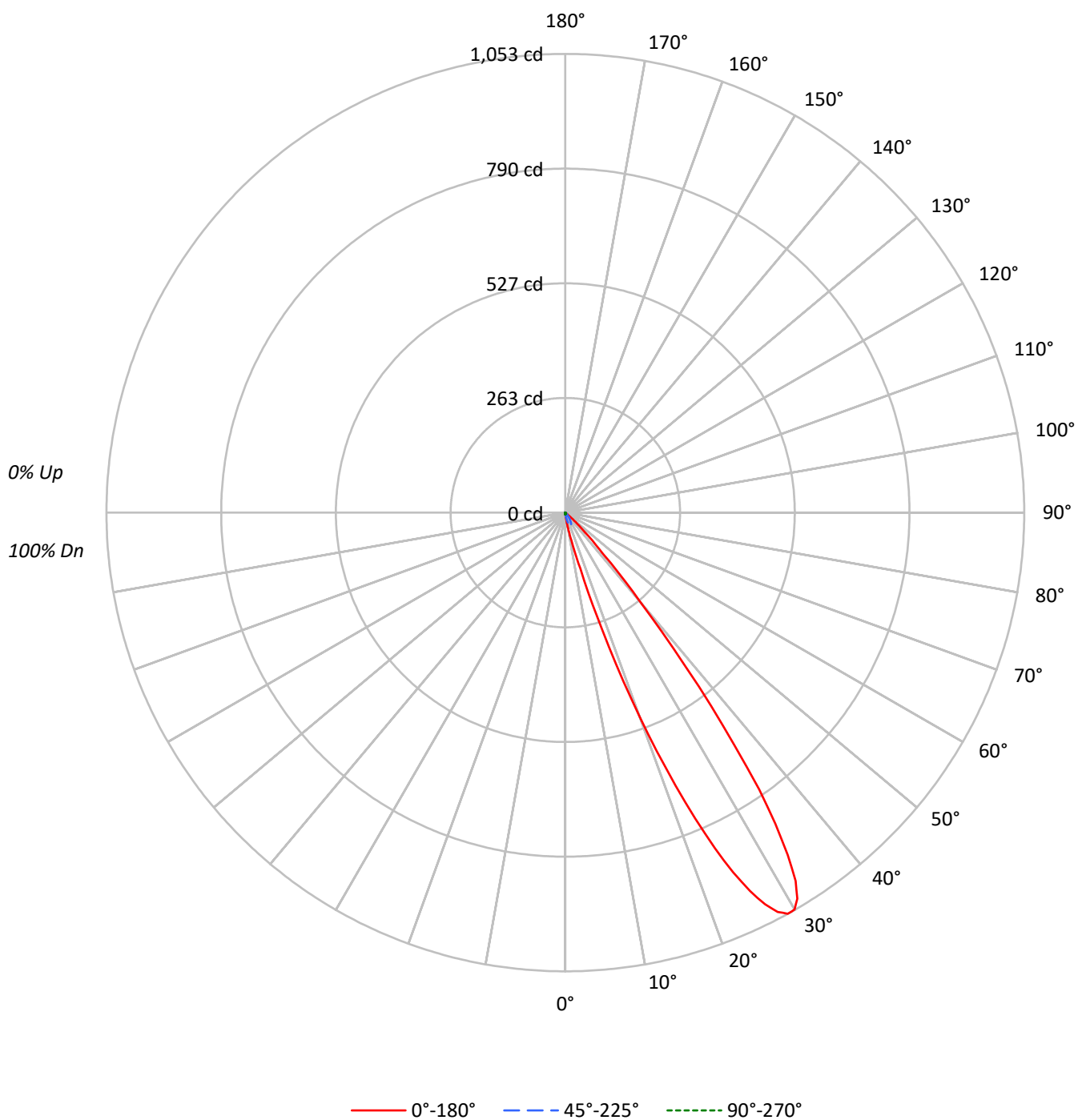
Lumens per Lamp: N/A
Luminaire Lumens: 114.9 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	71	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	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	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	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°	833	833	833	833	833
5°	1805	1321	792	418	352
10°	7971	2516	623	178	134
15°	30148	5812	431	68	45
20°	115930	8191	257	23	23
25°	220440	7694	145	0	0
30°	266319	6203	51	0	0
35°	207702	4230	27	0	0
40°	75799	2090	29	0	29
45°	19475	620	31	0	62
50°	3275	68	34	34	102
55°	421	0	76	115	229
60°	44	44	132	175	307
65°	52	52	208	311	363
70°	64	64	256	256	385
75°	85	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	8.8	7.7
20°-30°	48.9	42.5
30°-40°	47.2	41.1
40°-50°	8.2	7.1
50°-60°	0.6	0.5
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°	58.2	50.6
0°-40°	105.4	91.7
0°-60°	114.2	99.4
0°-90°	114.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	114.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	8	6	4	2	2	2
15°	133	26	2	0	0	59
25°	911	32	1	0	0	407
35°	776	16	0	0	0	446
45°	63	2	0	0	0	67
55°	1	0	0	0	1	2
65°	0	0	0	1	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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	5.6	5.4	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.4	4.8
5°	8.2	8.2	8.1	8.2	8.2	8.1	7.8	7.7	7.7	7.5	6.0
7.5°	16.3	16.1	16.1	15.9	14.8	14.4	14.2	13.6	12.6	12.4	7.8
10°	35.8	35.9	35.1	34.1	34.0	32.3	31.8	30.8	28.9	27.0	11.3
12.5°	65.0	63.5	61.6	61.8	58.5	57.4	54.8	52.0	49.1	46.1	18.6
15°	132.8	128.6	131.1	125.1	118.2	110.5	102.7	92.8	84.5	75.5	25.6
17.5°	279.7	283.7	276.9	251.0	235.1	216.5	190.2	164.8	143.1	125.6	31.3
20°	496.8	502.7	479.6	457.1	418.5	376.4	332.6	282.9	235.4	194.2	35.1
21°	587.5	583.9	574.4	538.4	493.9	445.1	391.4	336.6	279.0	225.5	35.5
22°	675.2	676.9	654.8	617.1	570.7	516.7	451.2	383.5	321.4	251.0	34.9
23°	762.6	768.0	738.7	703.3	645.0	584.1	508.2	435.2	358.4	280.2	33.8
24°	843.5	839.8	820.0	775.5	713.1	641.8	563.0	474.4	388.8	305.2	32.9
25°	911.1	910.7	879.6	836.3	765.1	686.0	599.2	506.5	414.9	322.1	31.8
26°	966.5	957.5	933.0	880.2	809.8	726.3	628.8	529.9	429.6	330.6	30.7
27°	1009.3	1002.8	969.9	915.0	841.5	749.2	647.8	541.5	436.3	333.4	29.2
28°	1038.0	1031.0	995.9	939.3	858.9	763.5	657.9	546.5	436.3	330.7	27.9
29°	1052.9	1043.3	1008.4	947.7	862.9	765.2	655.4	541.7	429.5	322.4	26.3
30°	1051.8	1039.8	1003.2	940.1	851.0	751.4	641.7	524.3	414.0	310.1	24.5
31°	1033.6	1020.2	979.4	914.4	826.2	725.5	615.7	501.0	392.9	294.1	22.7
32°	996.8	979.8	940.0	875.2	788.2	686.6	578.0	465.1	361.2	270.7	20.8
33°	936.9	919.8	877.0	816.3	736.8	637.4	528.0	426.5	325.2	242.9	19.2
34°	861.8	846.2	809.4	748.2	671.9	575.1	470.5	373.2	287.8	215.2	17.6
35°	775.9	751.0	717.6	669.2	594.8	497.5	408.4	323.5	249.3	186.3	15.8
36°	659.7	664.1	628.8	569.5	507.9	431.6	346.1	269.7	208.5	158.7	14.2
37°	556.6	549.6	527.1	481.2	427.6	351.8	290.1	228.7	175.4	134.2	12.5
38°	449.0	450.6	428.6	393.3	340.1	289.3	233.5	187.8	146.8	114.2	11.0
39°	351.5	350.3	344.3	311.7	263.4	230.1	189.2	155.7	122.3	96.3	9.3
40°	264.8	266.8	252.9	233.2	205.2	177.8	150.7	124.2	101.1	81.2	7.3
42.5°	128.8	131.9	122.7	117.7	105.3	94.5	79.8	65.1	55.4	47.9	3.2
45°	62.8	61.0	60.2	57.7	54.8	49.0	43.4	37.3	32.6	28.1	2.0
47.5°	32.1	31.2	31.2	30.2	29.2	27.3	24.5	22.5	20.2	17.5	0.8
50°	9.6	9.5	9.4	9.5	9.2	9.5	9.7	9.8	8.9	8.8	0.2
52.5°	3.8	3.9	3.8	4.1	4.1	4.0	4.1	4.0	3.9	3.5	0.0
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.3	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°	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	4.5	3.9	3.2	2.7	2.5	2.3
5°	4.8	3.6	2.5	1.9	1.7	1.6
7.5°	5.1	3.2	1.9	1.3	1.0	0.9
10°	5.4	2.8	1.5	0.8	0.6	0.6
12.5°	5.4	2.2	1.0	0.4	0.3	0.3
15°	5.3	1.9	0.7	0.3	0.2	0.2
17.5°	5.1	1.5	0.4	0.2	0.1	0.2
20°	4.8	1.1	0.2	0.1	0.1	0.1
21°	4.7	1.0	0.2	0.1	0.1	0.1
22°	4.5	0.9	0.1	0.0	0.1	0.1
23°	4.3	0.7	0.1	0.0	0.0	0.0
24°	3.9	0.6	0.1	0.0	0.0	0.0
25°	3.7	0.6	0.1	0.0	0.0	0.0
26°	3.5	0.3	0.0	0.0	0.0	0.0
27°	3.1	0.2	0.0	0.0	0.0	0.0
28°	2.9	0.2	0.0	0.0	0.0	0.0
29°	2.6	0.2	0.0	0.0	0.0	0.0
30°	2.2	0.2	0.0	0.0	0.0	0.0
31°	1.8	0.1	0.0	0.0	0.0	0.0
32°	1.5	0.1	0.0	0.0	0.0	0.0
33°	1.0	0.1	0.0	0.0	0.0	0.0
34°	0.7	0.1	0.0	0.0	0.0	0.0
35°	0.6	0.1	0.0	0.0	0.0	0.0
36°	0.3	0.1	0.0	0.0	0.0	0.1
37°	0.3	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	0.3
52.5°	0.0	0.2	0.1	0.2	0.3	0.4
55°	0.1	0.2	0.2	0.3	0.4	0.6
57.5°	0.1	0.3	0.3	0.4	0.6	0.6
60°	0.2	0.3	0.4	0.4	0.7	0.7
62.5°	0.2	0.4	0.4	0.4	0.7	0.7
65°	0.2	0.4	0.4	0.6	0.7	0.7
67.5°	0.2	0.4	0.4	0.4	0.6	0.7
70°	0.2	0.4	0.3	0.4	0.6	0.6
72.5°	0.2	0.4	0.3	0.3	0.4	0.6
75°	0.2	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	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)