

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: P1334446

Luminaire Tested: P3A02R209740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334446
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: P3A02R209740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

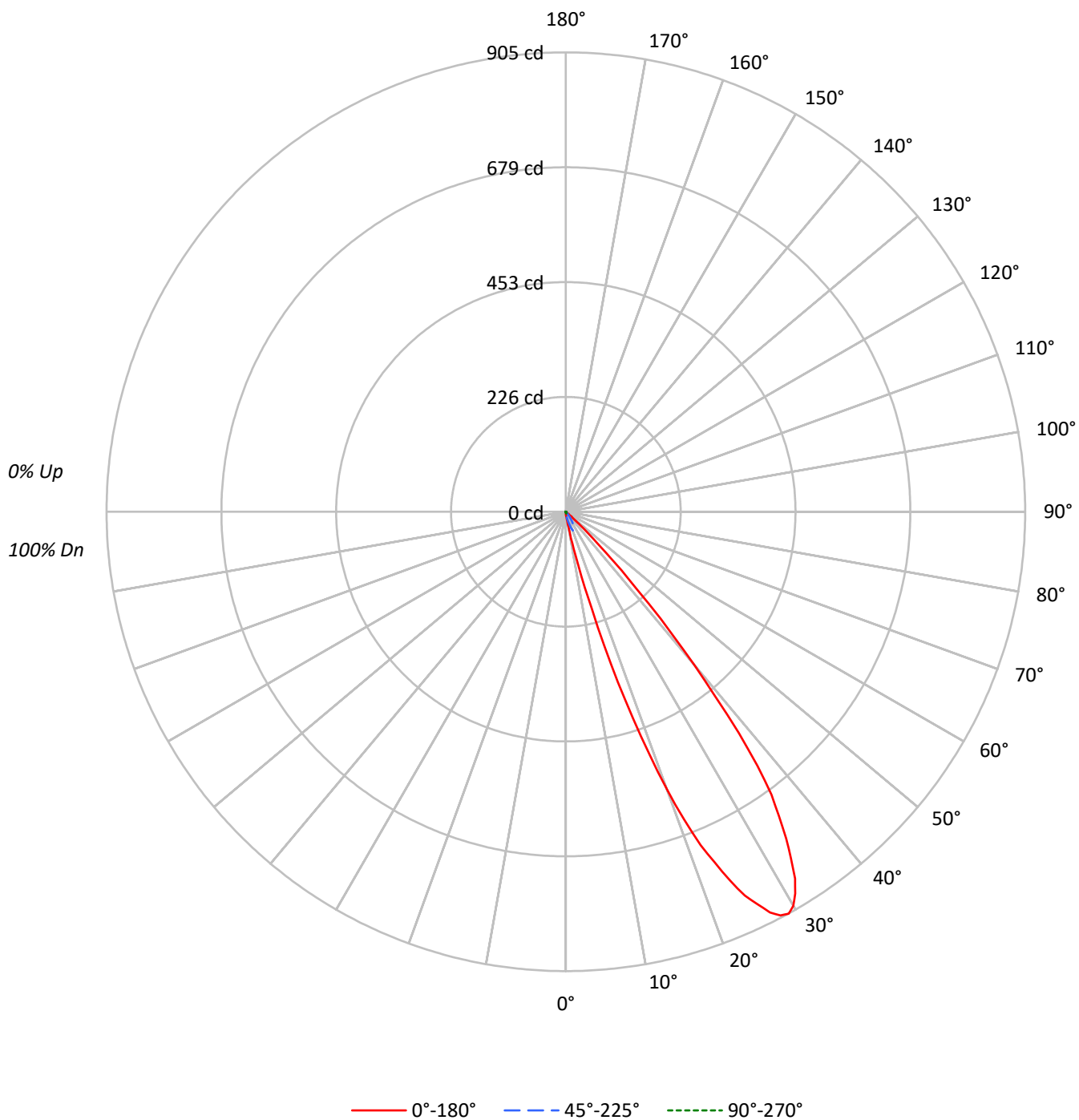
Lumens per Lamp: N/A
Luminaire Lumens: 127.0 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	76	71		79	74	71		77
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	76	65	58	53	74	64	58	53	63	57	52		62	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	965	965	965	965	965
5°	2201	1651	902	550	484
10°	6947	2872	735	312	223
15°	45040	5312	545	114	23
20°	135928	9077	373	0	0
25°	201883	9170	218	0	0
30°	227022	6963	76	0	0
35°	195897	4176	54	0	0
40°	112783	1431	0	0	0
45°	27507	558	31	0	31
50°	3309	171	34	34	102
55°	459	0	76	76	191
60°	44	0	132	132	263
65°	52	52	259	259	363
70°	64	64	321	321	385
75°	0	85	424	254	424
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 27693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	11.8	9.3
20°-30°	51.3	40.4
30°-40°	51.7	40.7
40°-50°	10.4	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°	63.7	50.1
0°-40°	115.3	90.8
0°-60°	126.2	99.4
0°-90°	127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	127.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	10	8	4	2	2	2
15°	198	23	2	0	0	78
25°	834	38	1	0	0	376
35°	732	16	0	0	0	435
45°	89	2	0	0	0	97
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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
2.5°	6.6	6.6	6.5	6.5	6.3	6.5	6.2	6.3	6.3	6.2	5.6
5°	10.0	10.3	10.1	10.1	10.0	10.1	9.9	9.7	9.4	9.4	7.5
7.5°	16.5	16.4	16.1	16.2	15.9	15.7	15.4	15.3	14.6	14.3	9.8
10°	31.2	31.9	31.3	31.2	29.2	29.0	27.7	25.7	24.0	23.0	12.9
12.5°	86.0	89.6	83.9	81.1	79.5	73.3	70.6	63.8	57.3	52.3	16.4
15°	198.4	207.5	195.9	196.7	187.0	169.3	153.7	140.3	124.6	108.7	23.4
17.5°	388.7	381.4	375.0	364.3	344.6	318.6	285.1	251.1	221.7	190.9	32.6
20°	582.5	576.0	561.6	538.2	513.1	474.5	434.6	383.6	334.1	287.8	38.9
21°	649.3	647.1	623.5	609.0	570.3	533.5	487.5	432.9	377.2	322.4	40.0
22°	708.8	695.7	683.0	661.7	623.2	583.1	532.0	474.5	414.1	353.1	40.1
23°	750.1	744.1	732.1	708.0	669.8	622.6	568.7	508.6	445.0	374.9	39.8
24°	795.7	788.1	770.6	742.5	703.9	657.3	595.8	536.1	467.0	393.2	38.8
25°	834.4	822.5	801.8	771.5	729.3	681.3	619.4	553.9	482.3	405.6	37.9
26°	859.5	853.1	826.5	793.5	748.3	698.8	635.7	567.5	492.2	411.2	36.4
27°	885.7	873.8	847.7	809.8	760.8	710.2	644.9	574.0	495.7	411.4	34.6
28°	900.7	887.8	858.2	818.3	768.9	716.5	650.2	576.1	495.0	407.9	32.4
29°	905.4	889.1	860.2	819.7	770.8	717.0	649.4	573.1	488.9	399.1	29.8
30°	896.6	880.0	852.6	813.1	764.6	711.2	641.9	563.2	478.0	386.6	27.5
31°	877.5	863.5	837.0	797.3	750.8	697.8	624.9	546.9	459.6	369.7	24.9
32°	852.3	838.4	812.4	776.6	729.2	675.8	601.8	521.6	437.9	344.6	22.2
33°	814.4	806.4	783.0	748.8	701.5	644.3	570.7	491.3	407.1	316.7	19.9
34°	776.0	766.0	749.6	712.2	661.2	604.2	530.1	449.5	369.4	285.5	17.7
35°	731.8	725.8	700.1	670.1	619.0	560.7	487.0	408.8	325.5	250.7	15.6
36°	688.9	679.7	650.4	618.7	569.1	506.0	433.3	359.8	287.6	218.1	13.3
37°	626.7	612.6	591.8	558.4	500.3	446.6	380.2	312.0	240.9	182.9	10.7
38°	553.5	546.9	518.0	484.4	436.3	385.4	319.7	261.9	198.8	152.7	8.2
39°	467.2	467.1	439.4	415.1	368.1	322.3	263.0	212.6	164.1	122.9	6.3
40°	394.0	380.5	363.4	332.9	296.8	257.9	206.0	166.4	127.3	99.1	5.0
42.5°	206.6	205.4	195.4	172.5	152.3	129.4	102.9	85.7	67.1	54.6	3.1
45°	88.7	89.3	82.4	78.9	71.1	61.5	52.0	43.3	37.1	30.1	1.8
47.5°	22.5	21.5	21.3	22.1	22.1	21.4	19.2	18.1	16.7	15.3	1.0
50°	9.7	9.4	9.2	9.2	8.6	8.3	7.7	7.0	6.5	5.8	0.5
52.5°	3.6	3.7	3.8	3.7	3.7	3.6	3.6	3.5	3.1	2.8	0.2
55°	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.3	0.0
57.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	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°	4.4	4.4	4.4	4.4	4.4	4.4
2.5°	5.1	4.5	3.8	3.2	3.1	3.0
5°	5.6	4.1	3.1	2.5	2.3	2.2
7.5°	6.1	3.8	2.5	1.8	1.6	1.5
10°	6.3	3.3	2.1	1.4	1.0	1.0
12.5°	6.5	2.9	1.5	0.9	0.6	0.6
15°	6.3	2.4	1.2	0.5	0.1	0.1
17.5°	5.8	2.0	0.7	0.1	0.0	0.0
20°	5.0	1.6	0.5	0.0	0.0	0.0
21°	4.7	1.4	0.3	0.0	0.0	0.0
22°	4.4	1.3	0.2	0.0	0.0	0.0
23°	4.0	1.2	0.2	0.0	0.0	0.0
24°	3.7	1.0	0.1	0.0	0.0	0.0
25°	3.5	0.9	0.1	0.0	0.0	0.0
26°	3.2	0.8	0.1	0.0	0.0	0.0
27°	2.9	0.7	0.0	0.0	0.0	0.0
28°	2.7	0.6	0.0	0.0	0.0	0.0
29°	2.3	0.5	0.0	0.0	0.0	0.0
30°	2.0	0.3	0.0	0.0	0.0	0.0
31°	1.6	0.3	0.0	0.0	0.0	0.0
32°	1.4	0.2	0.0	0.0	0.0	0.0
33°	1.2	0.2	0.0	0.0	0.0	0.0
34°	1.0	0.2	0.0	0.0	0.0	0.0
35°	0.9	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.1	0.0	0.0	0.0	0.0
37°	0.6	0.1	0.0	0.0	0.0	0.0
38°	0.5	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	0.5	0.5
57.5°	0.1	0.2	0.2	0.3	0.5	0.6
60°	0.2	0.3	0.3	0.3	0.6	0.6
62.5°	0.2	0.3	0.5	0.5	0.6	0.7
65°	0.2	0.5	0.5	0.5	0.6	0.7
67.5°	0.3	0.5	0.5	0.5	0.6	0.7
70°	0.3	0.5	0.5	0.5	0.6	0.6
72.5°	0.3	0.5	0.3	0.5	0.5	0.6
75°	0.3	0.5	0.3	0.3	0.5	0.5
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)