

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: P1335614

Luminaire Tested: P3A02R409024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

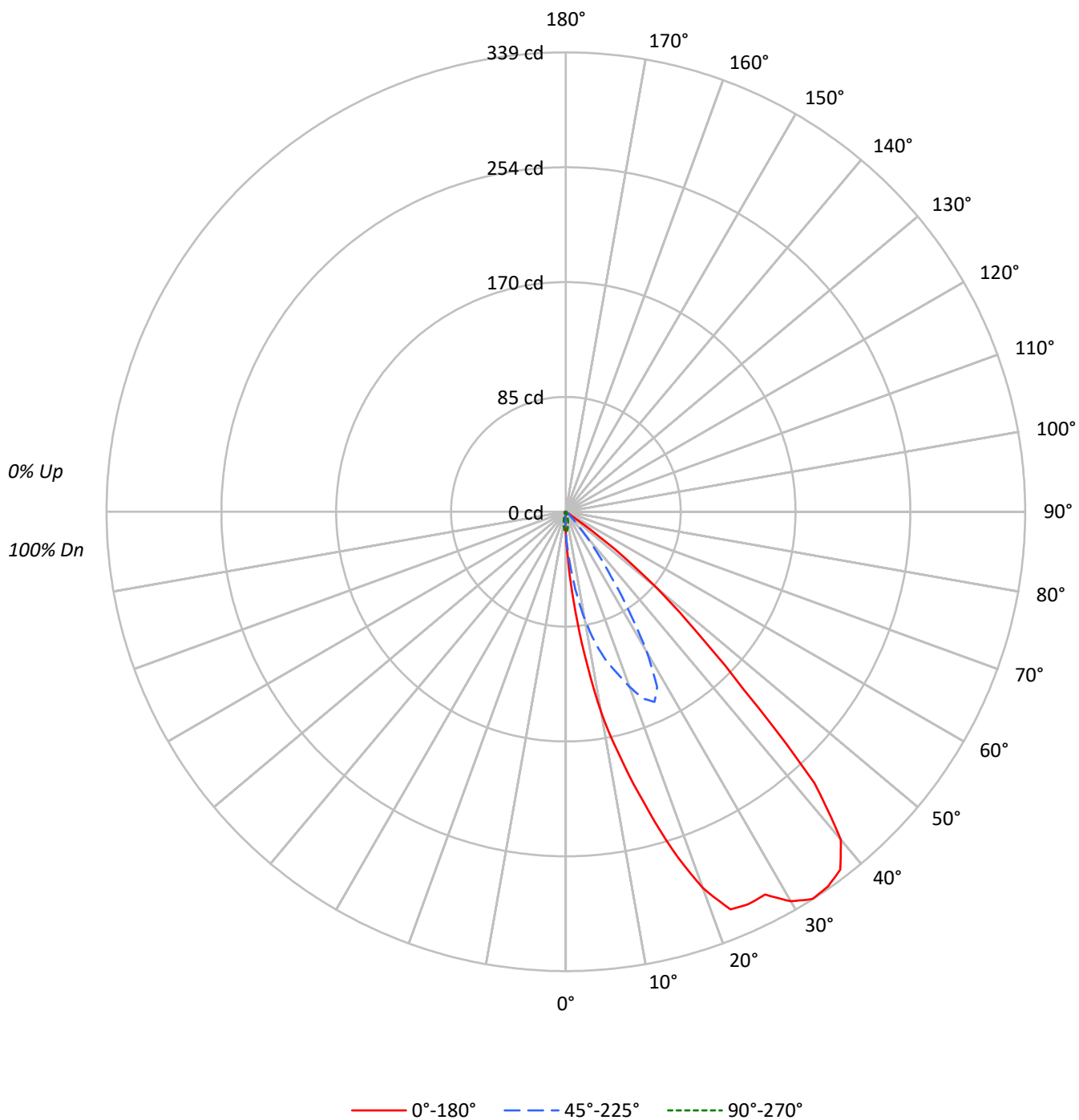
Lumens per Lamp: N/A
Luminaire Lumens: 124.9 lumens
Efficiency: N/A
Efficacy: 34.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70
6	80	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3245	3245	3245	3245	3245
5°	14638	9333	2906	1123	814
10°	33555	18013	2049	401	312
15°	50352	25562	1271	227	182
20°	68933	32039	747	117	140
25°	77279	37454	387	97	121
30°	84038	30232	152	76	127
35°	90319	15473	54	107	161
40°	90369	6183	29	115	200
45°	57680	2078	62	186	310
50°	29952	239	102	239	375
55°	2600	38	115	306	459
60°	88	44	132	351	526
65°	104	52	208	363	571
70°	64	64	256	385	513
75°	85	85	254	424	593
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	2.3
10°-20°	16.9	13.5
20°-30°	37.0	29.7
30°-40°	42.2	33.8
40°-50°	22.3	17.8
50°-60°	2.6	2.1
60°-70°	0.5	0.4
70°-80°	0.4	0.3
80°-90°	0.2	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°	56.8	45.5
0°-40°	99.1	79.3
0°-60°	123.9	99.2
0°-90°	124.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	124.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	66	42	13	5	4	9
15°	222	113	6	1	1	65
25°	319	155	2	0	0	147
35°	337	58	0	0	1	209
45°	186	7	0	1	1	150
55°	7	0	0	1	1	21
65°	0	0	0	1	1	0
75°	0	0	0	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
2.5°	33.0	33.0	32.9	31.9	31.8	31.7	30.0	29.6	27.6	26.2	20.0
5°	66.5	65.0	64.9	63.2	60.3	56.5	54.1	50.2	46.4	42.4	24.6
7.5°	105.9	107.1	103.6	101.8	95.5	91.0	84.0	77.9	69.3	61.3	28.4
10°	150.7	148.4	144.9	141.5	134.6	126.5	116.1	105.2	92.9	80.9	30.5
12.5°	185.6	182.8	180.7	175.9	169.1	158.7	146.3	131.7	115.4	98.1	30.4
15°	221.8	218.9	214.1	209.9	199.9	188.2	174.7	155.5	135.4	112.6	28.2
17.5°	261.5	257.8	252.5	246.1	236.3	223.3	206.3	182.9	154.5	124.5	24.2
20°	295.4	293.2	287.9	280.3	270.8	258.1	238.4	212.5	177.8	137.3	19.2
22.5°	317.6	315.6	312.0	305.3	298.1	284.6	266.7	238.1	197.4	149.1	14.6
25°	319.4	318.5	317.6	315.4	311.0	301.4	283.9	253.1	209.5	154.8	10.8
27.5°	318.4	318.1	317.9	316.7	313.9	304.4	286.4	255.4	207.9	145.9	7.9
30°	331.9	331.0	330.5	326.7	319.2	304.5	281.0	243.4	184.8	119.4	5.7
32.5°	338.8	338.6	338.1	334.4	323.8	304.7	271.9	214.6	146.5	86.2	3.9
35°	337.4	336.4	334.5	327.6	312.9	288.9	242.6	171.4	105.8	57.8	2.5
37.5°	332.8	330.4	326.7	314.3	294.8	262.0	196.7	126.1	71.9	37.4	1.5
40°	315.7	312.4	306.6	291.5	265.8	215.9	145.5	85.3	47.2	21.6	0.4
42.5°	271.4	267.2	263.0	246.1	216.7	161.0	95.7	52.7	26.9	11.8	0.1
45°	186.0	180.8	175.0	162.7	139.1	97.5	56.9	29.7	13.9	6.7	0.1
47.5°	129.2	126.8	116.6	101.0	77.4	51.7	29.5	14.6	7.4	3.1	0.1
50°	87.8	85.0	73.2	58.1	41.2	24.7	13.5	7.3	3.3	0.7	0.1
52.5°	46.1	42.7	35.2	26.8	16.7	10.4	5.9	3.2	1.0	0.1	0.1
55°	6.8	6.2	5.1	4.1	3.7	2.9	1.7	0.7	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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):

	90°	112.5°	135°	157.5°	180°
0°	14.8	14.8	14.8	14.8	14.8
2.5°	14.6	10.8	8.3	7.2	7.1
5°	13.2	7.7	5.1	3.9	3.7
7.5°	11.2	5.4	3.0	2.1	2.0
10°	9.2	3.7	1.8	1.5	1.4
12.5°	7.3	2.4	1.3	1.2	1.1
15°	5.6	1.6	1.0	0.8	0.8
17.5°	4.2	1.1	0.7	0.7	0.7
20°	3.2	0.7	0.5	0.6	0.6
22.5°	2.2	0.5	0.4	0.5	0.5
25°	1.6	0.4	0.4	0.5	0.5
27.5°	1.1	0.3	0.3	0.4	0.5
30°	0.6	0.2	0.3	0.4	0.5
32.5°	0.3	0.2	0.3	0.5	0.5
35°	0.2	0.3	0.4	0.5	0.6
37.5°	0.1	0.3	0.4	0.6	0.6
40°	0.1	0.3	0.4	0.6	0.7
42.5°	0.2	0.4	0.5	0.7	0.8
45°	0.2	0.4	0.6	0.8	1.0
47.5°	0.2	0.4	0.7	1.0	1.0
50°	0.3	0.5	0.7	1.0	1.1
52.5°	0.3	0.5	0.7	1.1	1.2
55°	0.3	0.5	0.8	1.1	1.2
57.5°	0.3	0.6	0.8	1.1	1.2
60°	0.3	0.5	0.8	1.1	1.2
62.5°	0.4	0.5	0.7	1.1	1.1
65°	0.4	0.5	0.7	1.1	1.1
67.5°	0.4	0.5	0.7	1.0	1.0
70°	0.4	0.5	0.6	0.8	0.8
72.5°	0.4	0.5	0.6	0.7	0.8
75°	0.3	0.4	0.5	0.6	0.7
77.5°	0.3	0.4	0.4	0.6	0.6
80°	0.3	0.3	0.3	0.4	0.4
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)