

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: P1335838

Luminaire Tested: P3A02R409840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335838
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: P3A02R409840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

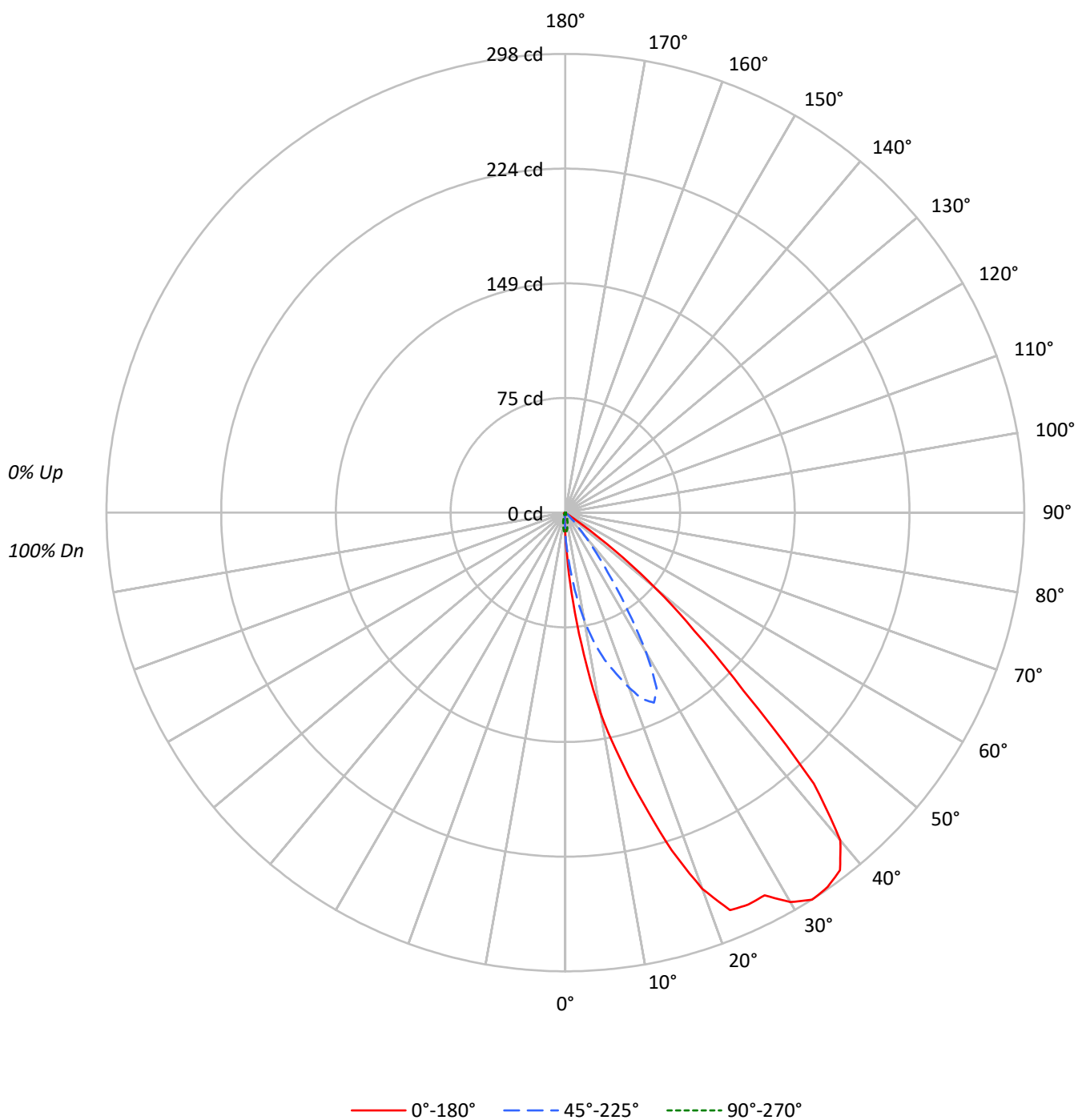
Lumens per Lamp: N/A
Luminaire Lumens: 110.1 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2851	2851	2851	2851	2851
5°	12877	8210	2553	991	726
10°	29525	15854	1804	356	267
15°	44291	22497	1112	182	159
20°	60649	28212	653	117	140
25°	67988	32954	339	97	121
30°	73961	26612	152	76	127
35°	79478	13626	54	107	161
40°	79520	5439	29	115	200
45°	50765	1830	62	186	248
50°	26370	239	102	239	307
55°	2294	38	115	268	382
60°	88	44	132	307	439
65°	104	52	208	363	467
70°	64	64	256	385	449
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: 50765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	2.3
10°-20°	14.9	13.5
20°-30°	32.6	29.6
30°-40°	37.2	33.8
40°-50°	19.6	17.8
50°-60°	2.3	2.1
60°-70°	0.4	0.4
70°-80°	0.4	0.3
80°-90°	0.2	0.2
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°	50.0	45.5
0°-40°	87.2	79.2
0°-60°	109.1	99.1
0°-90°	110.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	110.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	58	37	12	4	3	8
15°	195	99	5	1	1	57
25°	281	136	1	0	0	129
35°	297	51	0	0	1	184
45°	164	6	0	1	1	132
55°	6	0	0	1	1	18
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°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
2.5°	29.0	29.0	28.9	28.1	28.0	27.9	26.4	26.0	24.3	23.1	17.6
5°	58.5	57.2	57.1	55.6	53.1	49.7	47.6	44.2	40.8	37.3	21.7
7.5°	93.2	94.3	91.2	89.6	84.0	80.0	73.9	68.5	61.0	53.9	25.0
10°	132.6	130.6	127.6	124.5	118.4	111.3	102.2	92.6	81.7	71.2	26.9
12.5°	163.3	160.8	159.0	154.8	148.8	139.6	128.8	115.9	101.5	86.4	26.8
15°	195.1	192.6	188.5	184.7	175.9	165.6	153.8	136.9	119.2	99.1	24.8
17.5°	230.1	226.8	222.2	216.5	208.0	196.5	181.6	160.9	135.9	109.5	21.3
20°	259.9	258.0	253.3	246.6	238.3	227.1	209.8	187.0	156.5	120.9	16.9
22.5°	279.5	277.7	274.5	268.7	262.4	250.5	234.7	209.6	173.7	131.2	12.8
25°	281.0	280.3	279.5	277.5	273.7	265.2	249.8	222.8	184.4	136.2	9.5
27.5°	280.2	279.9	279.7	278.7	276.2	267.8	252.0	224.7	183.0	128.4	7.0
30°	292.1	291.3	290.8	287.5	280.9	267.9	247.3	214.2	162.6	105.1	5.0
32.5°	298.2	298.0	297.5	294.3	285.0	268.1	239.3	188.8	128.9	75.9	3.4
35°	296.9	296.0	294.3	288.3	275.4	254.3	213.5	150.8	93.1	50.9	2.2
37.5°	292.9	290.7	287.5	276.6	259.4	230.6	173.1	111.0	63.3	32.9	1.3
40°	277.8	274.9	269.8	256.5	233.9	190.0	128.0	75.0	41.6	19.0	0.4
42.5°	238.8	235.1	231.4	216.5	190.7	141.7	84.2	46.4	23.7	10.4	0.1
45°	163.7	159.1	154.0	143.2	122.4	85.8	50.1	26.1	12.3	5.9	0.1
47.5°	113.7	111.6	102.6	88.9	68.1	45.5	25.9	12.8	6.5	2.7	0.1
50°	77.3	74.8	64.4	51.1	36.3	21.8	11.9	6.4	2.9	0.7	0.1
52.5°	40.5	37.6	31.0	23.6	14.7	9.1	5.2	2.8	0.8	0.1	0.1
55°	6.0	5.5	4.5	3.6	3.3	2.5	1.5	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°	13.0	13.0	13.0	13.0	13.0
2.5°	12.8	9.5	7.3	6.3	6.2
5°	11.6	6.8	4.5	3.4	3.3
7.5°	9.9	4.7	2.6	1.9	1.8
10°	8.1	3.3	1.6	1.3	1.2
12.5°	6.4	2.1	1.1	1.0	0.9
15°	4.9	1.4	0.8	0.7	0.7
17.5°	3.7	0.9	0.7	0.7	0.7
20°	2.8	0.7	0.5	0.6	0.6
22.5°	2.0	0.5	0.4	0.5	0.5
25°	1.4	0.4	0.4	0.5	0.5
27.5°	0.9	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	0.7
45°	0.2	0.4	0.6	0.7	0.8
47.5°	0.2	0.4	0.7	0.8	0.8
50°	0.3	0.5	0.7	0.8	0.9
52.5°	0.3	0.5	0.7	0.9	1.0
55°	0.3	0.5	0.7	0.9	1.0
57.5°	0.3	0.6	0.7	0.9	1.0
60°	0.3	0.5	0.7	0.9	1.0
62.5°	0.4	0.5	0.7	0.9	0.9
65°	0.4	0.5	0.7	0.9	0.9
67.5°	0.4	0.5	0.7	0.8	0.8
70°	0.4	0.5	0.6	0.7	0.7
72.5°	0.4	0.5	0.6	0.7	0.7
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)