

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: P1335806

Luminaire Tested: P3A02R409830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335806
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: P3A02R409830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

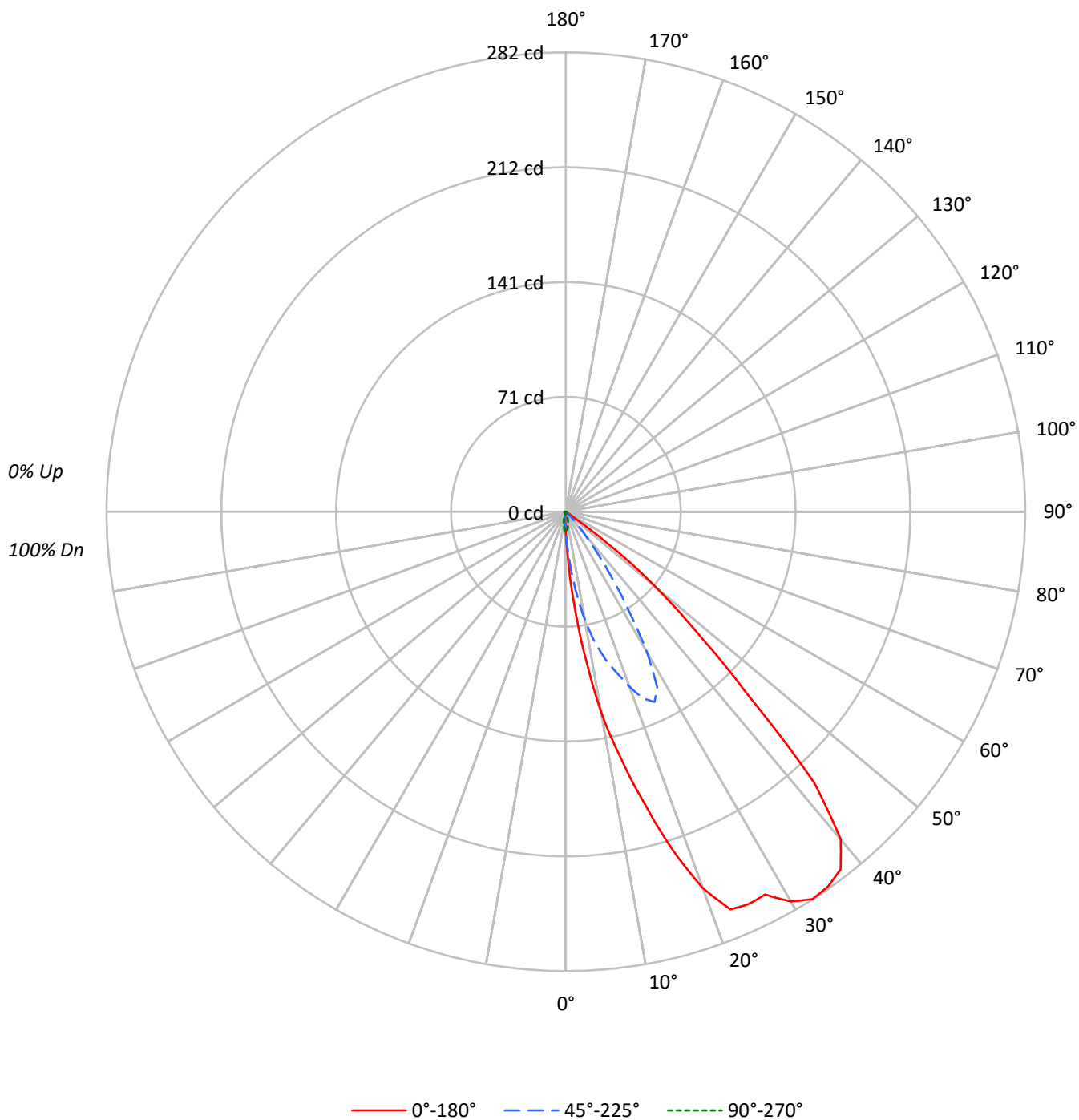
Lumens per Lamp: N/A
Luminaire Lumens: 104.1 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2697	2697	2697	2697	2697
5°	12173	7748	2421	924	682
10°	27900	14985	1692	334	245
15°	41884	21271	1067	182	159
20°	57358	26672	607	93	117
25°	64286	31163	315	97	97
30°	69935	25143	127	76	101
35°	75141	12876	54	107	134
40°	75169	5124	29	115	172
45°	48005	1706	62	155	248
50°	24903	205	102	205	307
55°	2141	38	115	268	382
60°	88	44	132	307	439
65°	104	52	208	311	467
70°	64	64	256	321	449
75°	85	85	254	339	508
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48005 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	2.3
10°-20°	14.1	13.5
20°-30°	30.8	29.6
30°-40°	35.1	33.8
40°-50°	18.5	17.8
50°-60°	2.2	2.1
60°-70°	0.4	0.4
70°-80°	0.3	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°	47.3	45.5
0°-40°	82.4	79.2
0°-60°	103.2	99.1
0°-90°	104.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	104.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	55	35	11	4	3	7
15°	184	94	5	1	1	54
25°	266	129	1	0	0	122
35°	281	48	0	0	0	174
45°	155	6	0	0	1	125
55°	6	0	0	1	1	17
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°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	27.4	27.4	27.3	26.5	26.5	26.4	25.0	24.6	22.9	21.8	16.6
5°	55.3	54.1	54.0	52.6	50.2	47.0	45.0	41.8	38.6	35.2	20.5
7.5°	88.1	89.1	86.2	84.7	79.5	75.7	69.9	64.8	57.7	51.0	23.6
10°	125.3	123.5	120.6	117.7	112.0	105.2	96.6	87.5	77.3	67.3	25.4
12.5°	154.4	152.1	150.3	146.4	140.7	132.0	121.7	109.6	96.0	81.7	25.3
15°	184.5	182.1	178.2	174.7	166.3	156.5	145.4	129.4	112.7	93.7	23.5
17.5°	217.5	214.5	210.1	204.7	196.6	185.8	171.7	152.2	128.5	103.5	20.1
20°	245.8	243.9	239.5	233.2	225.3	214.7	198.4	176.8	147.9	114.3	16.0
22.5°	264.2	262.6	259.6	254.0	248.1	236.8	221.9	198.1	164.2	124.0	12.1
25°	265.7	265.0	264.2	262.4	258.8	250.8	236.2	210.6	174.3	128.8	9.0
27.5°	264.9	264.7	264.5	263.5	261.1	253.2	238.3	212.5	173.0	121.4	6.6
30°	276.2	275.4	274.9	271.8	265.5	253.3	233.8	202.5	153.7	99.3	4.7
32.5°	281.9	281.7	281.3	278.2	269.4	253.5	226.3	178.5	121.9	71.7	3.3
35°	280.7	279.9	278.3	272.6	260.4	240.4	201.8	142.6	88.0	48.1	2.1
37.5°	276.9	274.9	271.8	261.5	245.2	218.0	163.7	105.0	59.9	31.1	1.2
40°	262.6	259.9	255.1	242.5	221.2	179.7	121.0	70.9	39.3	17.9	0.4
42.5°	225.8	222.3	218.8	204.7	180.3	134.0	79.6	43.9	22.4	9.8	0.1
45°	154.8	150.4	145.6	135.4	115.8	81.1	47.4	24.7	11.6	5.5	0.1
47.5°	107.5	105.5	97.0	84.0	64.4	43.0	24.5	12.1	6.2	2.5	0.1
50°	73.0	70.8	60.9	48.3	34.3	20.6	11.3	6.1	2.7	0.6	0.1
52.5°	38.3	35.5	29.3	22.3	13.9	8.6	4.9	2.6	0.8	0.1	0.1
55°	5.6	5.2	4.2	3.4	3.1	2.4	1.4	0.6	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°	12.3	12.3	12.3	12.3	12.3
2.5°	12.1	9.0	6.9	6.0	5.9
5°	11.0	6.4	4.2	3.3	3.1
7.5°	9.3	4.5	2.5	1.8	1.7
10°	7.6	3.1	1.5	1.2	1.1
12.5°	6.1	2.0	1.1	1.0	0.9
15°	4.7	1.3	0.8	0.7	0.7
17.5°	3.5	0.9	0.6	0.6	0.6
20°	2.6	0.6	0.4	0.5	0.5
22.5°	1.8	0.4	0.4	0.4	0.4
25°	1.3	0.4	0.4	0.4	0.4
27.5°	0.9	0.3	0.3	0.4	0.4
30°	0.5	0.2	0.3	0.4	0.4
32.5°	0.3	0.2	0.3	0.4	0.4
35°	0.2	0.3	0.4	0.4	0.5
37.5°	0.1	0.3	0.4	0.5	0.5
40°	0.1	0.3	0.4	0.5	0.6
42.5°	0.2	0.4	0.4	0.6	0.7
45°	0.2	0.4	0.5	0.7	0.8
47.5°	0.2	0.4	0.6	0.8	0.8
50°	0.3	0.4	0.6	0.8	0.9
52.5°	0.3	0.4	0.6	0.9	1.0
55°	0.3	0.4	0.7	0.9	1.0
57.5°	0.3	0.5	0.7	0.9	1.0
60°	0.3	0.4	0.7	0.9	1.0
62.5°	0.4	0.4	0.6	0.9	0.9
65°	0.4	0.4	0.6	0.9	0.9
67.5°	0.4	0.4	0.6	0.8	0.8
70°	0.4	0.4	0.5	0.7	0.7
72.5°	0.4	0.4	0.5	0.6	0.7
75°	0.3	0.4	0.4	0.5	0.6
77.5°	0.3	0.4	0.4	0.5	0.5
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)