

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: P1335726

Luminaire Tested: P3A02R409727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335726
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: P3A02R409727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

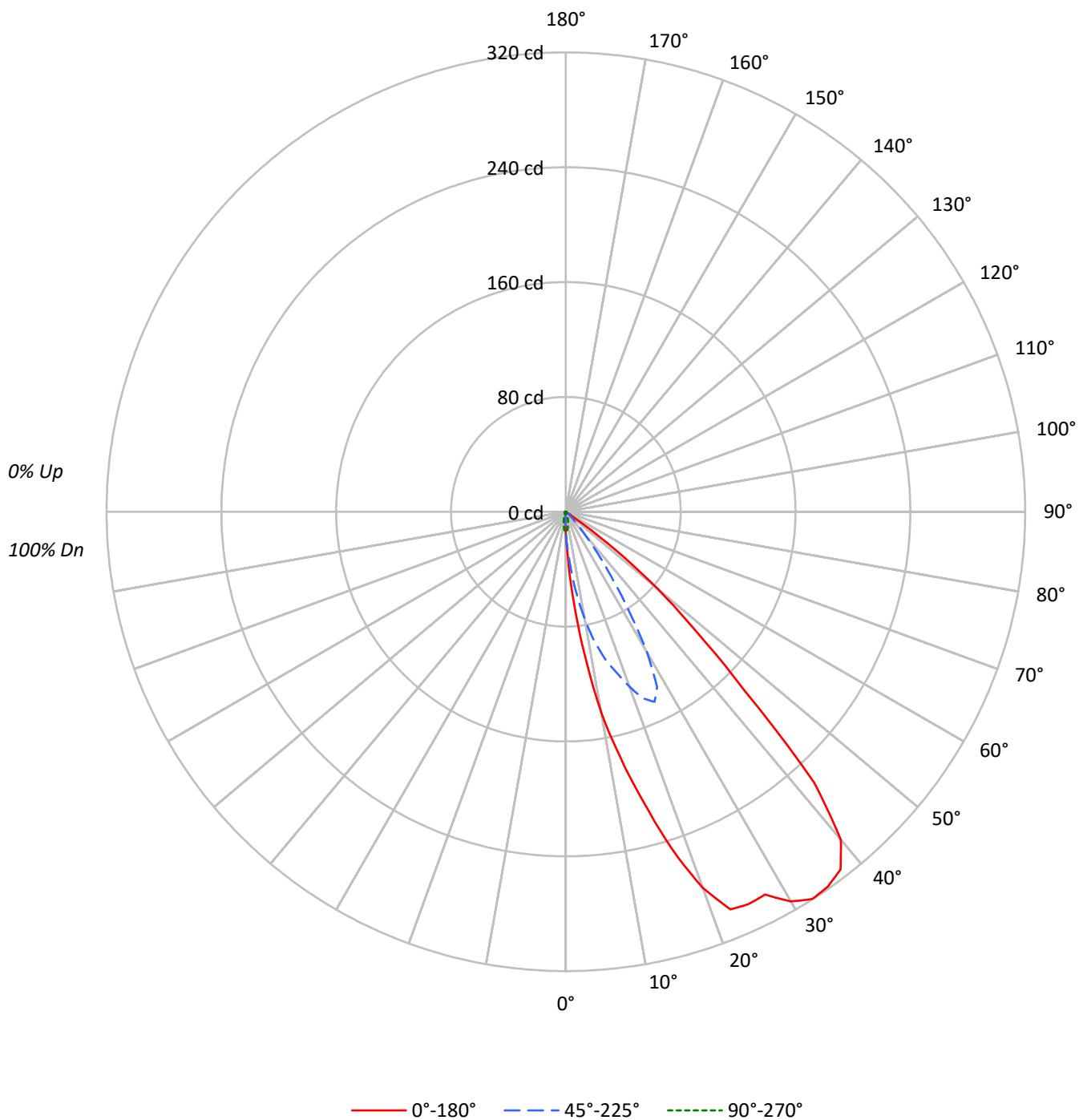
Lumens per Lamp: N/A
Luminaire Lumens: 118.0 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	77	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°	3070	3070	3070	3070	3070
5°	13801	8805	2751	1057	770
10°	31663	17011	1937	379	289
15°	47514	24132	1203	204	182
20°	65059	30266	700	117	140
25°	72948	35349	363	97	121
30°	79354	28536	152	76	127
35°	85260	14616	54	107	161
40°	85303	5811	29	115	200
45°	54455	1954	62	186	279
50°	28281	239	102	239	341
55°	2447	38	115	306	421
60°	88	44	132	351	482
65°	104	52	208	363	519
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: 54455 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	2.3
10°-20°	16.0	13.5
20°-30°	35.0	29.6
30°-40°	39.8	33.8
40°-50°	21.0	17.8
50°-60°	2.5	2.1
60°-70°	0.4	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°	53.7	45.5
0°-40°	93.5	79.2
0°-60°	117.0	99.2
0°-90°	118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	118.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	63	40	12	5	4	8
15°	209	106	5	1	1	62
25°	302	146	2	0	0	139
35°	318	55	0	0	1	197
45°	176	6	0	1	1	142
55°	6	0	0	1	1	20
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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	31.1	31.1	31.0	30.1	30.0	29.9	28.3	27.9	26.0	24.7	18.8
5°	62.7	61.3	61.2	59.6	56.9	53.4	51.1	47.4	43.8	40.0	23.2
7.5°	99.9	101.1	97.8	96.1	90.2	85.9	79.3	73.5	65.4	57.8	26.8
10°	142.2	140.1	136.8	133.5	127.1	119.4	109.6	99.3	87.7	76.4	28.8
12.5°	175.2	172.5	170.5	166.1	159.7	149.8	138.1	124.4	108.9	92.7	28.7
15°	209.3	206.6	202.2	198.2	188.7	177.6	165.0	146.8	127.9	106.3	26.6
17.5°	246.8	243.3	238.4	232.3	223.1	210.8	194.8	172.6	145.8	117.5	22.8
20°	278.8	276.8	271.8	264.6	255.6	243.6	225.1	200.6	167.8	129.7	18.2
22.5°	299.8	297.9	294.5	288.2	281.4	268.7	251.7	224.8	186.3	140.7	13.8
25°	301.5	300.7	299.8	297.7	293.6	284.5	268.0	239.0	197.8	146.1	10.2
27.5°	300.6	300.3	300.1	299.0	296.3	287.3	270.4	241.1	196.3	137.7	7.5
30°	313.4	312.5	312.0	308.4	301.3	287.4	265.3	229.8	174.4	112.7	5.4
32.5°	319.8	319.6	319.1	315.7	305.7	287.6	256.7	202.6	138.3	81.4	3.7
35°	318.5	317.5	315.7	309.3	295.4	272.8	229.0	161.8	99.8	54.6	2.4
37.5°	314.2	311.9	308.4	296.7	278.3	247.3	185.7	119.1	67.9	35.3	1.4
40°	298.0	294.9	289.4	275.2	250.9	203.9	137.3	80.5	44.6	20.3	0.4
42.5°	256.2	252.2	248.2	232.3	204.5	152.0	90.4	49.8	25.4	11.2	0.1
45°	175.6	170.6	165.2	153.6	131.3	92.1	53.8	28.0	13.2	6.3	0.1
47.5°	122.0	119.7	110.1	95.3	73.1	48.8	27.8	13.8	7.0	2.9	0.1
50°	82.9	80.3	69.1	54.9	38.9	23.3	12.8	6.9	3.1	0.7	0.1
52.5°	43.5	40.3	33.2	25.3	15.8	9.8	5.6	3.0	0.9	0.1	0.1
55°	6.4	5.9	4.8	3.9	3.5	2.7	1.6	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°	14.0	14.0	14.0	14.0	14.0
2.5°	13.8	10.2	7.9	6.8	6.7
5°	12.5	7.3	4.8	3.7	3.5
7.5°	10.6	5.1	2.8	2.0	1.9
10°	8.7	3.5	1.7	1.4	1.3
12.5°	6.9	2.3	1.2	1.1	1.0
15°	5.3	1.5	0.9	0.8	0.8
17.5°	4.0	1.0	0.7	0.7	0.7
20°	3.0	0.7	0.5	0.6	0.6
22.5°	2.1	0.5	0.4	0.5	0.5
25°	1.5	0.4	0.4	0.5	0.5
27.5°	1.0	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	0.9
47.5°	0.2	0.4	0.7	0.9	0.9
50°	0.3	0.5	0.7	0.9	1.0
52.5°	0.3	0.5	0.7	1.0	1.1
55°	0.3	0.5	0.8	1.0	1.1
57.5°	0.3	0.6	0.8	1.0	1.1
60°	0.3	0.5	0.8	1.0	1.1
62.5°	0.4	0.5	0.7	1.0	1.0
65°	0.4	0.5	0.7	1.0	1.0
67.5°	0.4	0.5	0.7	0.9	0.9
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)