

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: P1336121

Luminaire Tested: P3A02R459827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

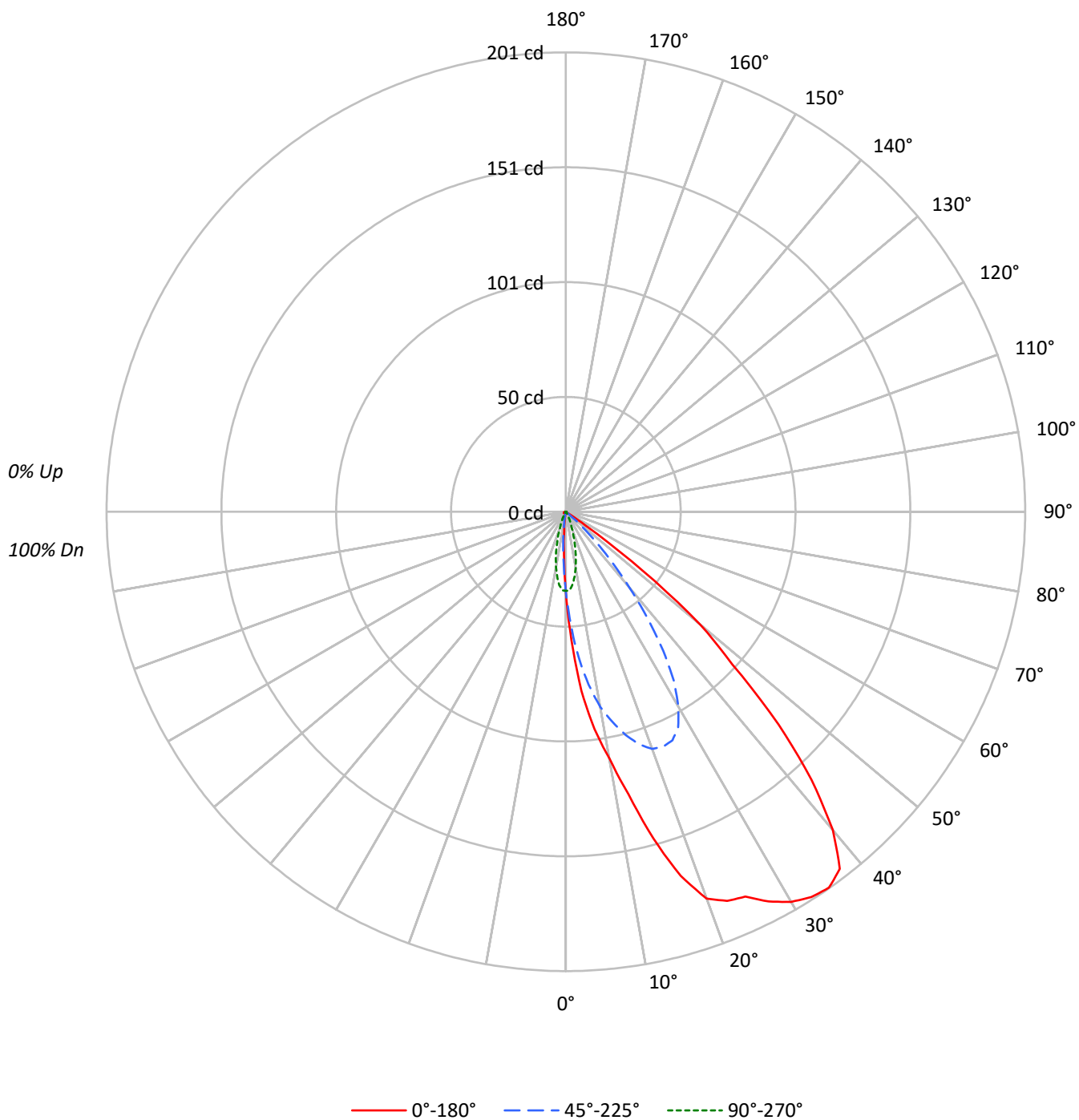
Lumens per Lamp: N/A
Luminaire Lumens: 91.1 lumens
Efficiency: N/A
Efficacy: 25.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7587	7587	7587	7587	7587
5°	17301	14044	7110	2840	1937
10°	24382	19283	5500	623	289
15°	33598	22951	3496	204	182
20°	42027	25762	1820	140	140
25°	44954	26687	847	121	121
30°	49906	24915	380	127	127
35°	53753	19863	134	134	161
40°	52012	12309	57	143	200
45°	40841	5799	62	186	248
50°	26234	682	102	239	307
55°	3976	76	115	306	382
60°	88	88	132	351	395
65°	104	104	156	363	467
70°	128	128	192	385	513
75°	85	169	254	424	593
80°	126	253	253	505	631
85°	0	252	503	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40841 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	4.2
10°-20°	13.7	15.0
20°-30°	24.1	26.4
30°-40°	27.3	30.0
40°-50°	17.7	19.4
50°-60°	3.5	3.8
60°-70°	0.4	0.5
70°-80°	0.4	0.4
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°	41.6	45.6
0°-40°	68.9	75.7
0°-60°	90.1	98.9
0°-90°	91.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	91.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	79	64	32	13	9	8
15°	148	101	15	1	1	43
25°	186	110	4	0	0	87
35°	201	74	0	0	1	123
45°	132	19	0	1	1	99
55°	10	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°	50°
0°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
2.5°	56.2	56.1	56.3	54.8	54.7	53.6	53.3	52.0	50.2	49.4	47.4
5°	78.6	77.9	77.9	76.0	75.4	74.1	71.9	69.2	66.9	63.8	60.4
7.5°	95.9	95.7	95.7	94.1	92.6	90.8	87.8	84.7	81.1	76.3	71.4
10°	109.5	109.7	109.1	107.6	105.4	103.4	99.9	96.1	91.6	86.6	80.1
12.5°	126.7	125.0	124.5	121.2	118.4	114.6	110.4	106.1	100.5	94.2	86.9
15°	148.0	145.9	143.8	139.4	134.7	128.8	122.3	115.9	108.8	101.1	91.9
17.5°	167.0	167.0	164.2	157.4	151.3	142.6	133.8	125.3	116.8	106.7	95.3
20°	180.1	179.4	177.2	172.2	165.3	155.5	144.0	132.0	121.8	110.4	97.2
22.5°	184.3	184.2	184.2	181.3	175.7	165.5	151.4	137.4	124.6	111.3	96.3
25°	185.8	186.2	186.9	185.8	181.6	171.4	156.0	139.9	125.4	110.3	92.8
27.5°	192.2	191.6	192.4	191.6	186.9	174.7	156.9	139.3	123.6	106.4	86.5
30°	197.1	197.0	198.4	197.7	191.6	176.9	156.1	137.0	119.1	98.4	76.7
32.5°	199.9	200.0	200.4	197.6	188.4	172.2	152.0	132.3	110.7	88.0	63.9
35°	200.8	200.4	198.3	191.3	178.8	161.5	141.9	121.3	99.2	74.2	50.5
37.5°	196.9	194.5	189.0	178.7	164.2	148.0	128.9	107.4	83.4	58.6	37.7
40°	181.7	178.6	171.7	161.1	147.6	132.0	112.4	89.9	64.7	43.0	26.5
42.5°	159.1	157.5	150.2	141.0	129.6	113.8	93.6	70.8	47.9	29.7	16.9
45°	131.7	129.7	125.1	117.0	108.0	91.4	72.6	50.7	32.6	18.7	8.4
47.5°	98.8	98.9	95.8	89.7	80.8	67.0	49.7	34.0	20.5	9.7	1.9
50°	76.9	75.9	71.5	65.1	54.9	44.6	32.1	21.5	10.8	2.0	0.2
52.5°	42.6	43.3	40.9	38.9	33.6	26.6	18.9	10.9	2.3	0.2	0.2
55°	10.4	11.0	10.6	10.8	11.2	10.0	7.7	2.1	0.2	0.2	0.2
57.5°	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
2.5°	46.4	45.0	42.3	34.4	27.6	22.3	19.1	18.8
5°	57.5	53.6	47.9	32.3	20.4	12.9	9.4	8.8
7.5°	66.2	60.7	52.1	28.8	13.9	6.6	3.7	3.0
10°	73.4	65.7	54.2	24.7	8.8	2.8	1.5	1.3
12.5°	78.4	69.0	54.6	20.1	5.0	1.4	1.0	0.9
15°	81.6	70.1	52.7	15.4	2.8	0.9	0.8	0.8
17.5°	82.9	69.2	49.2	11.2	1.5	0.7	0.7	0.7
20°	82.3	66.2	44.1	7.8	1.0	0.6	0.6	0.6
22.5°	79.4	61.1	37.6	5.3	0.7	0.5	0.5	0.5
25°	73.7	54.2	30.7	3.5	0.5	0.5	0.5	0.5
27.5°	65.1	45.7	23.5	2.4	0.4	0.5	0.5	0.5
30°	54.4	36.1	16.9	1.5	0.4	0.5	0.5	0.5
32.5°	43.2	26.3	11.1	0.9	0.3	0.5	0.5	0.6
35°	31.4	18.0	7.1	0.5	0.4	0.5	0.5	0.6
37.5°	22.0	11.7	4.1	0.3	0.4	0.5	0.6	0.6
40°	14.3	6.5	1.5	0.2	0.4	0.5	0.6	0.7
42.5°	7.5	2.3	0.3	0.2	0.4	0.5	0.7	0.8
45°	1.9	0.3	0.1	0.2	0.5	0.6	0.8	0.8
47.5°	0.2	0.1	0.1	0.3	0.5	0.7	0.8	0.8
50°	0.1	0.2	0.2	0.3	0.5	0.7	0.8	0.9
52.5°	0.2	0.2	0.2	0.3	0.5	0.7	0.9	1.0
55°	0.2	0.2	0.2	0.3	0.5	0.8	0.9	1.0
57.5°	0.2	0.2	0.2	0.3	0.5	0.8	0.9	0.9
60°	0.2	0.2	0.2	0.3	0.5	0.8	0.9	0.9
62.5°	0.2	0.2	0.2	0.3	0.5	0.7	0.9	0.9
65°	0.2	0.2	0.2	0.3	0.5	0.7	0.8	0.9
67.5°	0.2	0.2	0.2	0.3	0.5	0.7	0.8	0.9
70°	0.2	0.2	0.2	0.3	0.5	0.6	0.8	0.8
72.5°	0.2	0.2	0.2	0.3	0.5	0.6	0.7	0.8
75°	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.7
77.5°	0.2	0.2	0.2	0.2	0.4	0.5	0.6	0.6
80°	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)