

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: P1336041

Luminaire Tested: P3A02R459050DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336041
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: P3A02R459050DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

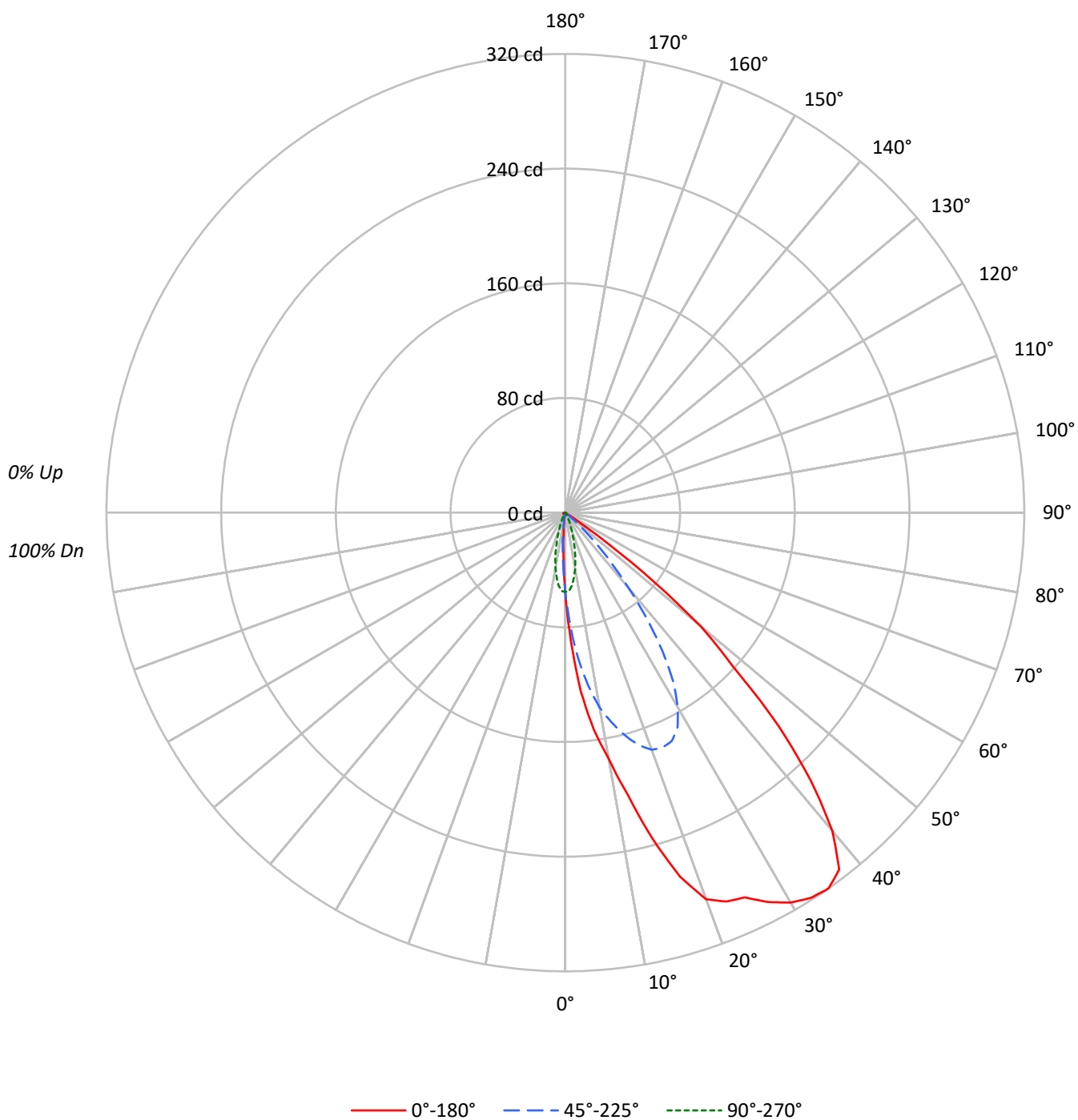
Lumens per Lamp: N/A
Luminaire Lumens: 145.0 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	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	76	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	81	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	43	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°	12104	12104	12104	12104	12104
5°	27581	22364	11314	4534	3104
10°	38855	30728	8751	1002	468
15°	53553	36550	5585	341	272
20°	66949	41070	2917	233	233
25°	71641	42511	1355	169	194
30°	79531	39702	608	177	203
35°	85662	31641	187	187	268
40°	82898	19608	115	229	315
45°	65092	9241	124	310	372
50°	41824	1092	171	375	512
55°	6346	76	191	459	612
60°	88	88	219	526	658
65°	104	104	259	571	778
70°	128	128	321	641	833
75°	85	169	424	678	932
80°	126	253	505	758	1010
85°	0	252	503	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 65092 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	4.2
10°-20°	21.8	15.1
20°-30°	38.4	26.5
30°-40°	43.6	30.0
40°-50°	28.2	19.5
50°-60°	5.5	3.8
60°-70°	0.7	0.5
70°-80°	0.6	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°	66.2	45.7
0°-40°	109.8	75.7
0°-60°	143.5	99.0
0°-90°	145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	125	102	51	21	14	13
15°	236	161	25	2	1	68
25°	296	176	6	1	1	139
35°	320	118	1	1	1	197
45°	210	30	0	1	1	158
55°	17	0	0	1	2	32
65°	0	0	0	1	2	0
75°	0	0	0	1	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°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	89.6	89.4	89.7	87.3	87.2	85.4	84.9	82.8	80.0	78.7	75.5
5°	125.3	124.1	124.1	121.1	120.2	118.1	114.6	110.2	106.6	101.6	96.3
7.5°	152.8	152.6	152.6	150.0	147.6	144.7	139.9	135.0	129.1	121.5	113.7
10°	174.5	174.9	173.8	171.5	168.0	164.8	159.2	153.2	146.0	138.0	127.7
12.5°	201.9	199.2	198.4	193.2	188.7	182.6	176.0	169.0	160.2	150.1	138.5
15°	235.9	232.5	229.1	222.2	214.6	205.3	194.9	184.7	173.3	161.0	146.5
17.5°	266.2	266.2	261.7	250.8	241.1	227.2	213.2	199.6	186.1	170.0	151.8
20°	286.9	285.8	282.4	274.4	263.4	247.7	229.4	210.4	194.1	176.0	154.9
22.5°	293.7	293.5	293.6	288.9	280.0	263.8	241.3	218.9	198.5	177.4	153.4
25°	296.1	296.6	297.8	296.0	289.3	273.1	248.6	222.9	199.8	175.7	147.8
27.5°	306.2	305.2	306.6	305.3	297.8	278.4	250.0	221.9	196.9	169.5	137.9
30°	314.1	313.8	316.1	315.0	305.2	281.8	248.7	218.3	189.8	156.8	122.2
32.5°	318.6	318.7	319.3	314.8	300.3	274.4	242.2	210.9	176.3	140.2	101.9
35°	320.0	319.3	315.9	304.9	285.0	257.3	226.0	193.3	158.0	118.2	80.5
37.5°	313.7	310.0	301.2	284.7	261.7	235.9	205.4	171.1	132.9	93.4	60.0
40°	289.6	284.6	273.6	256.7	235.3	210.3	179.1	143.2	103.1	68.5	42.2
42.5°	253.4	250.9	239.4	224.7	206.5	181.3	149.2	112.8	76.3	47.3	26.9
45°	209.9	206.6	199.4	186.4	172.1	145.6	115.7	80.8	52.0	29.8	13.3
47.5°	157.4	157.6	152.7	142.8	128.8	106.7	79.2	54.2	32.6	15.4	3.0
50°	122.6	120.9	113.9	103.8	87.4	71.1	51.2	34.2	17.2	3.2	0.2
52.5°	67.9	69.0	65.2	62.0	53.5	42.4	30.2	17.3	3.6	0.4	0.2
55°	16.6	17.6	16.9	17.2	17.8	15.9	12.2	3.4	0.4	0.2	0.2
57.5°	0.4	0.4	0.4	0.4	0.6	0.8	0.8	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°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	74.0	71.7	67.4	54.8	44.0	35.5	30.4	30.0
5°	91.6	85.4	76.4	51.4	32.5	20.6	14.9	14.1
7.5°	105.5	96.8	82.9	45.8	22.2	10.6	5.8	4.9
10°	117.0	104.7	86.3	39.3	13.9	4.5	2.4	2.1
12.5°	124.9	110.0	86.9	32.0	8.0	2.2	1.6	1.5
15°	130.0	111.7	84.0	24.6	4.5	1.5	1.3	1.2
17.5°	132.1	110.2	78.5	17.8	2.4	1.1	1.1	1.1
20°	131.1	105.5	70.2	12.5	1.6	1.0	1.0	1.0
22.5°	126.5	97.4	59.9	8.4	1.1	0.8	0.8	0.8
25°	117.4	86.3	49.0	5.6	0.7	0.7	0.8	0.8
27.5°	103.8	72.8	37.5	3.8	0.6	0.7	0.8	0.8
30°	86.7	57.6	26.9	2.4	0.6	0.7	0.7	0.8
32.5°	68.9	42.0	17.7	1.5	0.5	0.7	0.8	1.0
35°	50.0	28.6	11.3	0.7	0.6	0.7	0.8	1.0
37.5°	35.0	18.7	6.5	0.5	0.6	0.7	1.0	1.0
40°	22.8	10.4	2.4	0.4	0.6	0.8	1.0	1.1
42.5°	11.9	3.6	0.5	0.4	0.6	0.8	1.1	1.2
45°	3.0	0.5	0.1	0.4	0.7	1.0	1.2	1.2
47.5°	0.4	0.1	0.1	0.5	0.7	1.1	1.2	1.3
50°	0.1	0.2	0.2	0.5	0.7	1.1	1.3	1.5
52.5°	0.2	0.2	0.2	0.5	0.8	1.1	1.5	1.6
55°	0.2	0.2	0.2	0.5	0.8	1.2	1.5	1.6
57.5°	0.2	0.2	0.2	0.5	0.8	1.2	1.5	1.5
60°	0.2	0.2	0.2	0.5	0.8	1.2	1.5	1.5
62.5°	0.2	0.2	0.4	0.5	0.8	1.1	1.5	1.5
65°	0.2	0.4	0.4	0.5	0.8	1.1	1.3	1.5
67.5°	0.2	0.2	0.4	0.5	0.8	1.1	1.3	1.5
70°	0.2	0.2	0.4	0.5	0.7	1.0	1.2	1.3
72.5°	0.2	0.2	0.4	0.5	0.7	1.0	1.1	1.2
75°	0.2	0.2	0.4	0.5	0.6	0.8	1.1	1.1
77.5°	0.2	0.2	0.4	0.4	0.6	0.7	1.0	1.0
80°	0.2	0.2	0.4	0.4	0.5	0.6	0.7	0.8
82.5°	0.2	0.2	0.2	0.4	0.4	0.5	0.6	0.6
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
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)