

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: P1339427

Luminaire Tested: P3A05R459727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339427
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: P3A05R459727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

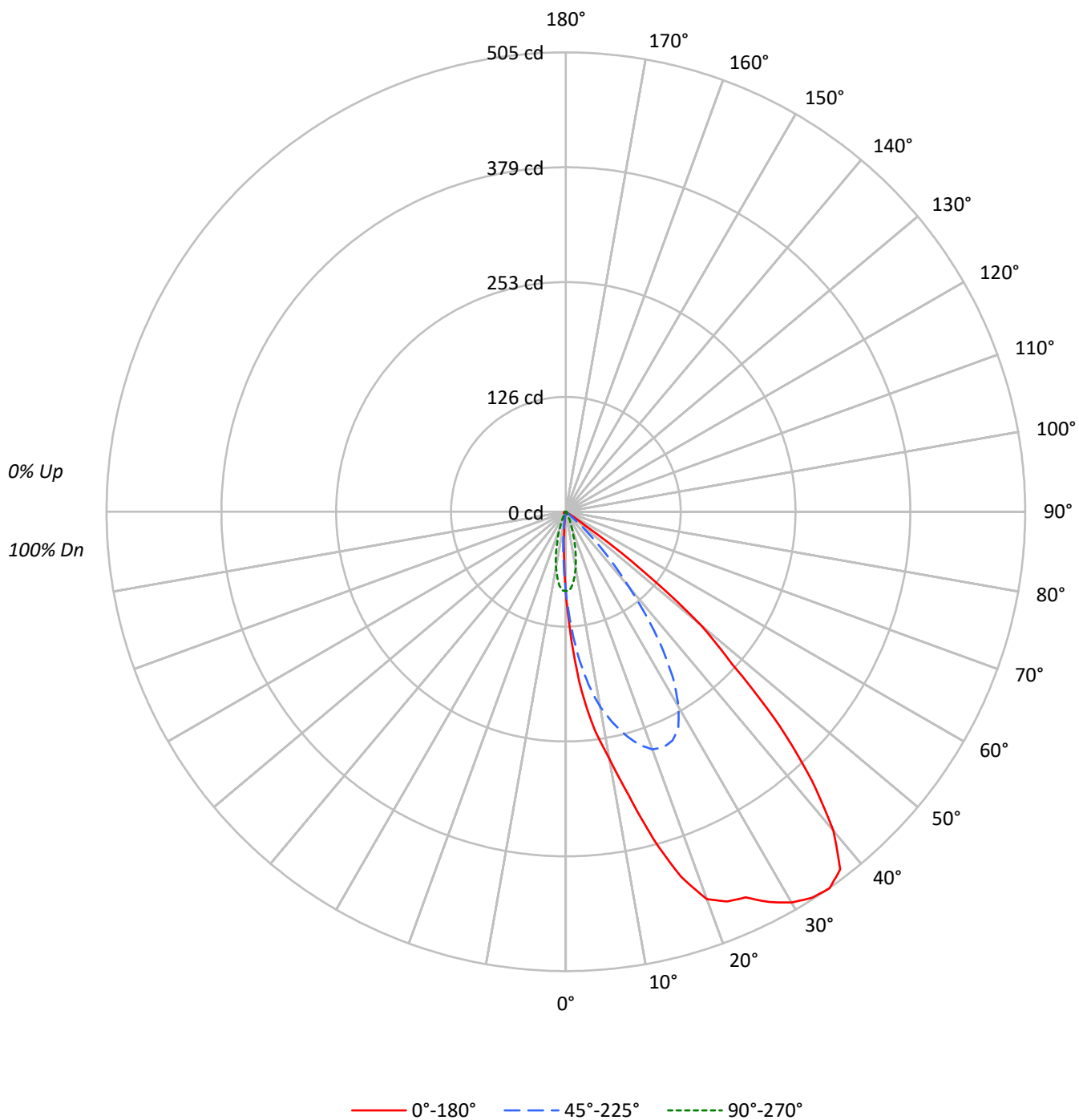
Lumens per Lamp: N/A
Luminaire Lumens: 229.0 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	19099	19099	19099	19099	19099
5°	43539	35329	17874	7176	4887
10°	61366	48518	13827	1581	735
15°	84563	57730	8831	522	431
20°	105733	64849	4597	350	350
25°	113160	67141	2129	266	315
30°	125589	62693	962	279	329
35°	135292	49978	294	294	402
40°	130902	30972	172	372	487
45°	102801	14606	186	465	589
50°	66045	1706	273	580	785
55°	10016	153	306	726	956
60°	175	175	351	833	1009
65°	208	208	415	882	1193
70°	256	256	513	962	1346
75°	169	339	678	1101	1440
80°	253	505	758	1263	1642
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 102801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	4.2
10°-20°	34.5	15.1
20°-30°	60.6	26.4
30°-40°	68.8	30.0
40°-50°	44.5	19.4
50°-60°	8.7	3.8
60°-70°	1.1	0.5
70°-80°	0.9	0.4
80°-90°	0.4	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°	104.6	45.7
0°-40°	173.4	75.7
0°-60°	226.6	99.0
0°-90°	229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	229.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	198	160	81	33	22	21
15°	372	254	39	2	2	107
25°	468	278	9	1	1	219
35°	505	187	1	1	2	311
45°	332	47	1	2	2	250
55°	26	0	1	2	2	50
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	1	1	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°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2.5°	141.5	141.1	141.7	137.9	137.7	134.8	134.1	130.8	126.4	124.3	119.3
5°	197.8	195.9	195.9	191.3	189.8	186.5	181.0	174.1	168.3	160.5	152.1
7.5°	241.3	240.9	240.9	236.9	233.1	228.5	221.0	213.2	204.0	191.9	179.6
10°	275.6	276.2	274.4	270.8	265.2	260.3	251.5	241.9	230.6	217.9	201.7
12.5°	318.9	314.7	313.3	305.1	298.0	288.4	277.9	267.0	253.0	237.1	218.7
15°	372.5	367.1	361.8	350.9	339.0	324.2	307.8	291.7	273.7	254.3	231.3
17.5°	420.4	420.4	413.3	396.1	380.7	358.9	336.7	315.2	294.0	268.5	239.8
20°	453.1	451.4	446.0	433.4	416.0	391.3	362.3	332.3	306.6	277.9	244.6
22.5°	463.8	463.5	463.7	456.2	442.2	416.5	381.1	345.7	313.5	280.2	242.3
25°	467.7	468.4	470.4	467.5	457.0	431.3	392.6	352.0	315.6	277.5	233.5
27.5°	483.6	482.0	484.1	482.2	470.4	439.7	394.9	350.5	311.0	267.7	217.8
30°	496.0	495.6	499.3	497.6	482.0	445.1	392.8	344.7	299.7	247.6	193.0
32.5°	503.1	503.3	504.3	497.2	474.2	433.4	382.5	333.0	278.5	221.4	160.9
35°	505.4	504.3	498.9	481.5	450.1	406.4	357.0	305.3	249.5	186.7	127.2
37.5°	495.4	489.5	475.7	449.7	413.3	372.5	324.4	270.2	209.9	147.5	94.8
40°	457.3	449.5	432.1	405.4	371.5	332.1	282.9	226.2	162.8	108.2	66.6
42.5°	400.3	396.2	378.0	354.9	326.1	286.3	235.6	178.1	120.5	74.7	42.5
45°	331.5	326.3	314.8	294.4	271.8	230.0	182.7	127.5	82.2	47.1	21.1
47.5°	248.6	249.0	241.1	225.6	203.4	168.5	125.1	85.6	51.5	24.3	4.8
50°	193.6	190.9	179.8	163.9	138.1	112.2	80.8	54.0	27.2	5.0	0.4
52.5°	107.2	109.0	103.0	97.9	84.5	67.0	47.7	27.4	5.7	0.6	0.4
55°	26.2	27.8	26.6	27.2	28.2	25.1	19.3	5.4	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.0	1.3	1.3	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2.5°	116.8	113.2	106.5	86.6	69.5	56.1	48.1	47.3
5°	144.6	134.8	120.7	81.2	51.3	32.6	23.6	22.2
7.5°	166.6	152.8	131.0	72.4	35.0	16.7	9.2	7.7
10°	184.8	165.3	136.4	62.1	22.0	7.1	3.8	3.3
12.5°	197.3	173.7	137.3	50.6	12.6	3.4	2.5	2.3
15°	205.3	176.4	132.7	38.9	7.1	2.3	2.1	1.9
17.5°	208.6	174.1	123.9	28.2	3.8	1.7	1.7	1.7
20°	207.0	166.6	110.9	19.7	2.5	1.5	1.5	1.5
22.5°	199.7	153.8	94.6	13.2	1.7	1.3	1.3	1.3
25°	185.4	136.4	77.4	8.8	1.1	1.1	1.3	1.3
27.5°	163.9	114.9	59.2	5.9	1.0	1.1	1.3	1.3
30°	136.9	91.0	42.5	3.8	1.0	1.1	1.1	1.3
32.5°	108.8	66.3	28.0	2.3	0.8	1.1	1.3	1.5
35°	78.9	45.2	17.8	1.1	1.0	1.1	1.3	1.5
37.5°	55.3	29.5	10.3	0.8	1.0	1.1	1.5	1.5
40°	36.0	16.5	3.8	0.6	1.0	1.3	1.5	1.7
42.5°	18.8	5.7	0.8	0.6	1.0	1.3	1.7	1.9
45°	4.8	0.8	0.2	0.6	1.1	1.5	1.9	1.9
47.5°	0.6	0.2	0.2	0.8	1.1	1.7	1.9	2.1
50°	0.2	0.4	0.4	0.8	1.1	1.7	2.1	2.3
52.5°	0.4	0.4	0.4	0.8	1.3	1.7	2.3	2.5
55°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.5
57.5°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
60°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
62.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.3	2.3
65°	0.4	0.6	0.6	0.8	1.3	1.7	2.1	2.3
67.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.1	2.3
70°	0.4	0.4	0.6	0.8	1.1	1.5	1.9	2.1
72.5°	0.4	0.4	0.6	0.8	1.1	1.5	1.7	1.9
75°	0.4	0.4	0.6	0.8	1.0	1.3	1.7	1.7
77.5°	0.4	0.4	0.6	0.6	1.0	1.1	1.5	1.5
80°	0.4	0.4	0.6	0.6	0.8	1.0	1.1	1.3
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	1.0	1.0
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)