

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: P1334425

Luminaire Tested: P3A02R209735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209735DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

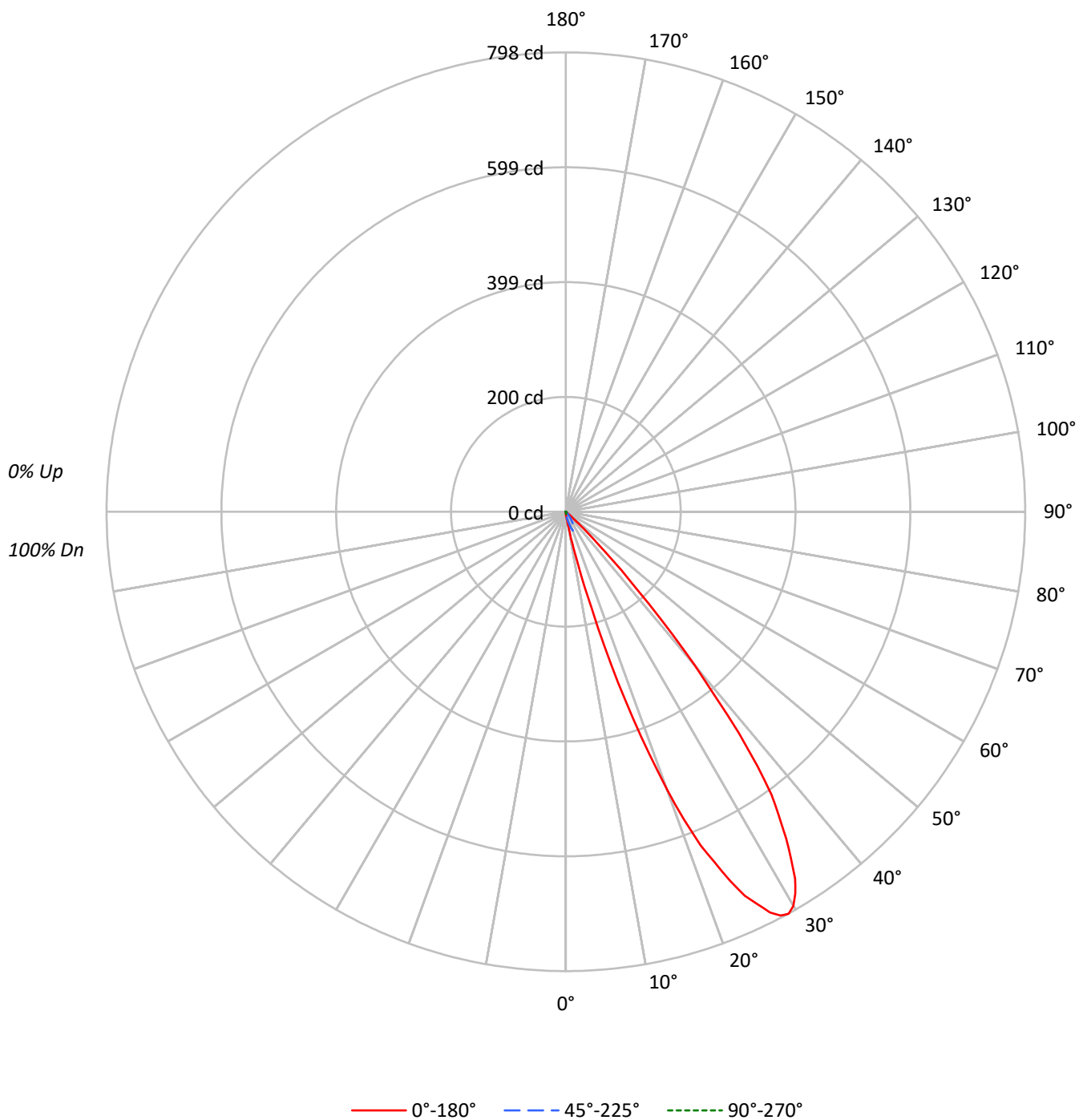
Lumens per Lamp: N/A
Luminaire Lumens: 112.0 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.52 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1334425

CATALOG NUMBER: P3A02R209735DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1334425

CATALOG NUMBER: P3A02R209735DE010 E3A301GPH

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	855	855	855	855	855
5°	1937	1453	814	484	418
10°	6123	2538	646	267	200
15°	39728	4677	477	91	23
20°	119874	8004	327	0	0
25°	178051	8081	194	0	0
30°	200208	6153	76	0	0
35°	172742	3667	54	0	0
40°	99472	1260	0	0	0
45°	24251	496	31	0	31
50°	2900	136	34	34	102
55°	382	0	76	76	153
60°	44	0	132	132	219
65°	52	52	208	208	311
70°	64	64	256	256	321
75°	0	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 24406 cd/sqm

TEST NUMBER: P1334425

CATALOG NUMBER: P3A02R209735DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	10.4	9.3
20°-30°	45.2	40.4
30°-40°	45.6	40.7
40°-50°	9.1	8.2
50°-60°	0.5	0.4
60°-70°	0.3	0.3
70°-80°	0.3	0.2
80°-90°	0.1	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°	56.1	50.1
0°-40°	101.7	90.8
0°-60°	111.3	99.4
0°-90°	112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	112.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	9	7	4	2	2	1
15°	175	21	2	0	0	69
25°	736	33	1	0	0	332
35°	645	14	0	0	0	384
45°	78	2	0	0	0	85
55°	1	0	0	0	0	2
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1334425

CATALOG NUMBER: P3A02R209735DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
2.5°	5.8	5.8	5.7	5.7	5.6	5.7	5.5	5.6	5.6	5.5	5.0
5°	8.8	9.0	8.9	8.9	8.8	8.9	8.7	8.5	8.3	8.3	6.6
7.5°	14.5	14.4	14.2	14.3	14.0	13.8	13.6	13.5	12.9	12.6	8.6
10°	27.5	28.1	27.6	27.5	25.7	25.6	24.4	22.7	21.1	20.3	11.4
12.5°	75.8	79.1	74.0	71.5	70.1	64.6	62.3	56.3	50.5	46.1	14.4
15°	175.0	183.0	172.7	173.4	164.9	149.3	135.5	123.8	109.8	95.8	20.6
17.5°	342.8	336.3	330.7	321.3	303.9	281.0	251.4	221.4	195.5	168.4	28.8
20°	513.7	508.0	495.2	474.6	452.5	418.4	383.3	338.3	294.7	253.8	34.3
21°	572.6	570.6	549.8	537.1	503.0	470.5	429.9	381.8	332.7	284.3	35.3
22°	625.1	613.5	602.3	583.5	549.6	514.3	469.1	418.4	365.2	311.4	35.4
23°	661.5	656.2	645.6	624.4	590.7	549.1	501.5	448.5	392.4	330.6	35.1
24°	701.7	695.0	679.6	654.8	620.7	579.7	525.4	472.8	411.8	346.8	34.2
25°	735.9	725.4	707.1	680.4	643.2	600.8	546.3	488.4	425.3	357.7	33.4
26°	758.0	752.3	728.9	699.8	660.0	616.3	560.6	500.4	434.1	362.6	32.1
27°	781.1	770.6	747.5	714.1	670.9	626.3	568.7	506.2	437.1	362.9	30.5
28°	794.3	782.9	756.8	721.6	678.0	631.9	573.4	508.1	436.5	359.7	28.6
29°	798.5	784.1	758.6	722.9	679.8	632.3	572.7	505.4	431.1	352.0	26.3
30°	790.7	776.1	751.9	717.1	674.3	627.2	566.1	496.7	421.6	340.9	24.3
31°	773.9	761.5	738.1	703.1	662.1	615.4	551.1	482.3	405.3	326.1	21.9
32°	751.6	739.4	716.5	684.9	643.1	595.9	530.7	460.0	386.2	303.9	19.6
33°	718.2	711.2	690.5	660.4	618.6	568.2	503.3	433.3	359.0	279.3	17.6
34°	684.3	675.5	661.1	628.1	583.1	532.8	467.5	396.4	325.8	251.8	15.6
35°	645.3	640.0	617.4	591.0	545.9	494.4	429.5	360.5	287.0	221.1	13.7
36°	607.5	599.4	573.6	545.6	501.9	446.3	382.2	317.3	253.6	192.3	11.7
37°	552.7	540.3	521.9	492.4	441.2	393.8	335.3	275.2	212.5	161.3	9.4
38°	488.1	482.3	456.8	427.2	384.8	339.9	282.0	231.0	175.3	134.6	7.2
39°	412.0	411.9	387.5	366.1	324.6	284.2	232.0	187.5	144.7	108.4	5.6
40°	347.5	335.5	320.5	293.6	261.7	227.4	181.7	146.7	112.3	87.4	4.4
42.5°	182.2	181.2	172.3	152.1	134.3	114.1	90.7	75.6	59.1	48.2	2.7
45°	78.2	78.7	72.7	69.6	62.7	54.3	45.8	38.2	32.7	26.5	1.6
47.5°	19.8	19.0	18.8	19.5	19.5	18.9	17.0	16.0	14.7	13.5	0.9
50°	8.5	8.3	8.1	8.1	7.6	7.3	6.8	6.2	5.7	5.1	0.4
52.5°	3.1	3.3	3.4	3.3	3.3	3.1	3.1	3.0	2.7	2.4	0.2
55°	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.1	0.0
57.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	3.9	3.9	3.9	3.9	3.9	3.9
2.5°	4.5	4.0	3.4	2.8	2.7	2.6
5°	5.0	3.7	2.7	2.2	2.0	1.9
7.5°	5.4	3.4	2.2	1.6	1.4	1.3
10°	5.6	2.9	1.8	1.2	0.9	0.9
12.5°	5.7	2.5	1.3	0.8	0.5	0.5
15°	5.6	2.1	1.0	0.4	0.1	0.1
17.5°	5.1	1.7	0.6	0.1	0.0	0.0
20°	4.4	1.4	0.4	0.0	0.0	0.0
21°	4.2	1.2	0.3	0.0	0.0	0.0
22°	3.9	1.1	0.2	0.0	0.0	0.0
23°	3.6	1.0	0.2	0.0	0.0	0.0
24°	3.3	0.9	0.1	0.0	0.0	0.0
25°	3.0	0.8	0.1	0.0	0.0	0.0
26°	2.8	0.7	0.1	0.0	0.0	0.0
27°	2.5	0.6	0.0	0.0	0.0	0.0
28°	2.3	0.5	0.0	0.0	0.0	0.0
29°	2.0	0.4	0.0	0.0	0.0	0.0
30°	1.7	0.3	0.0	0.0	0.0	0.0
31°	1.4	0.3	0.0	0.0	0.0	0.0
32°	1.2	0.2	0.0	0.0	0.0	0.0
33°	1.0	0.2	0.0	0.0	0.0	0.0
34°	0.9	0.2	0.0	0.0	0.0	0.0
35°	0.8	0.2	0.0	0.0	0.0	0.0
36°	0.6	0.1	0.0	0.0	0.0	0.0
37°	0.5	0.1	0.0	0.0	0.0	0.0
38°	0.4	0.1	0.0	0.0	0.0	0.0
39°	0.3	0.0	0.0	0.0	0.0	0.0
40°	0.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.1	0.0	0.0	0.1	0.1
47.5°	0.0	0.1	0.0	0.0	0.1	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.1	0.3	0.3
55°	0.1	0.2	0.1	0.2	0.4	0.4
57.5°	0.1	0.2	0.2	0.3	0.4	0.5
60°	0.2	0.3	0.3	0.3	0.5	0.5
62.5°	0.2	0.3	0.4	0.4	0.5	0.6
65°	0.2	0.4	0.4	0.4	0.5	0.6
67.5°	0.3	0.4	0.4	0.4	0.5	0.6
70°	0.3	0.4	0.4	0.4	0.5	0.5
72.5°	0.3	0.4	0.3	0.4	0.4	0.5
75°	0.3	0.4	0.3	0.3	0.4	0.4
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.2	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)