

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: P1334133

Luminaire Tested: P3A02R159827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

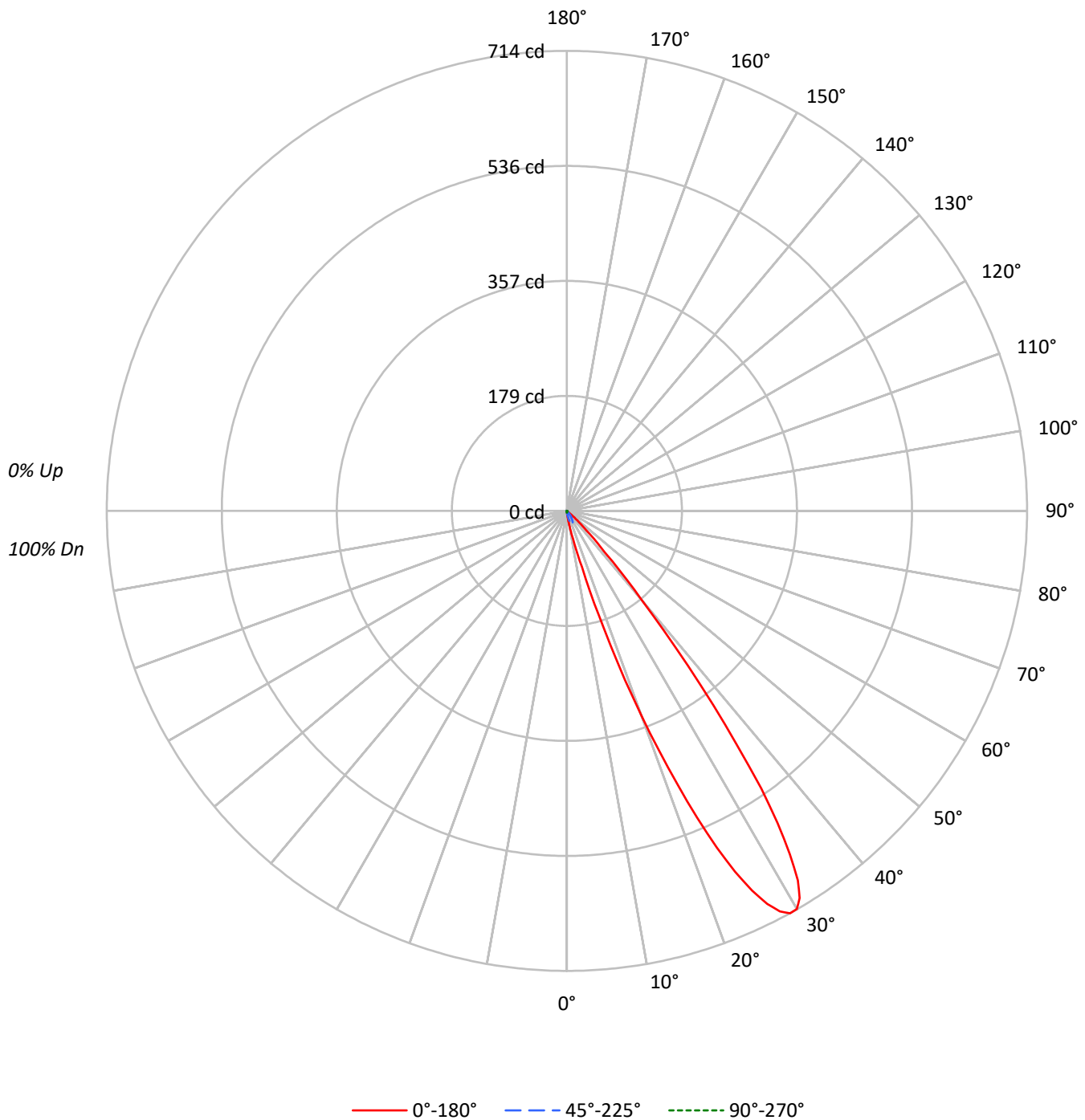
Lumens per Lamp: N/A
Luminaire Lumens: 78.1 lumens
Efficiency: N/A
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): 2.34 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64		72	67	64		71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	52	48	70	59	52	47	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	570	570	570	570	570
5°	1211	902	528	286	242
10°	5411	1715	423	111	89
15°	20454	3950	295	45	45
20°	78640	5554	187	23	23
25°	149525	5202	97	0	0
30°	180635	4203	51	0	0
35°	140886	2864	27	0	0
40°	51411	1403	29	0	29
45°	13211	434	31	0	62
50°	2217	68	34	34	68
55°	306	0	76	76	153
60°	44	44	88	132	219
65°	52	52	156	208	259
70°	64	64	192	192	256
75°	85	85	254	169	254
80°	0	126	253	253	253
85°	0	252	503	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	6.0	7.7
20°-30°	33.2	42.5
30°-40°	32.0	41.0
40°-50°	5.6	7.1
50°-60°	0.4	0.5
60°-70°	0.3	0.3
70°-80°	0.2	0.3
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°	39.5	50.6
0°-40°	71.5	91.6
0°-60°	77.5	99.3
0°-90°	78.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	78.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	6	4	2	1	1	1
15°	90	17	1	0	0	40
25°	618	22	0	0	0	276
35°	526	11	0	0	0	303
45°	43	1	0	0	0	46
55°	1	0	0	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
2.5°	3.8	3.6	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.3
5°	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.2	5.1	4.1
7.5°	11.1	10.9	10.9	10.8	10.0	9.8	9.6	9.3	8.6	8.4	5.3
10°	24.3	24.4	23.8	23.1	23.1	21.9	21.5	20.9	19.6	18.3	7.7
12.5°	44.1	43.1	41.8	41.9	39.7	38.9	37.2	35.3	33.3	31.3	12.6
15°	90.1	87.3	88.9	84.8	80.2	75.0	69.7	63.0	57.3	51.2	17.4
17.5°	189.7	192.4	187.8	170.3	159.5	146.8	129.0	111.8	97.0	85.2	21.2
20°	337.0	341.0	325.3	310.0	283.8	255.3	225.6	191.9	159.6	131.7	23.8
21°	398.5	396.1	389.6	365.2	335.0	301.9	265.5	228.3	189.2	153.0	24.1
22°	458.0	459.1	444.1	418.5	387.1	350.5	306.0	260.1	218.0	170.3	23.7
23°	517.2	520.9	501.0	477.0	437.5	396.1	344.7	295.2	243.1	190.1	22.9
24°	572.1	569.6	556.2	526.0	483.7	435.3	381.9	321.8	263.7	207.0	22.3
25°	618.0	617.7	596.6	567.2	518.9	465.3	406.4	343.6	281.4	218.4	21.5
26°	655.6	649.4	632.8	597.0	549.3	492.7	426.5	359.4	291.4	224.2	20.8
27°	684.5	680.1	657.8	620.6	570.7	508.1	439.4	367.3	295.9	226.1	19.8
28°	704.0	699.3	675.5	637.1	582.6	517.8	446.2	370.6	295.9	224.3	18.9
29°	714.1	707.6	683.9	642.8	585.3	519.0	444.5	367.4	291.3	218.7	17.8
30°	713.4	705.3	680.4	637.6	577.2	509.6	435.2	355.6	280.8	210.3	16.6
31°	701.1	692.0	664.3	620.2	560.4	492.0	417.6	339.8	266.5	199.5	15.4
32°	676.1	664.6	637.6	593.6	534.6	465.7	392.0	315.5	245.0	183.6	14.1
33°	635.4	623.8	594.9	553.7	499.7	432.3	358.1	289.3	220.6	164.7	13.1
34°	584.5	573.9	549.0	507.4	455.7	390.1	319.1	253.1	195.2	146.0	11.9
35°	526.3	509.3	486.7	453.9	403.4	337.4	277.0	219.4	169.1	126.3	10.7
36°	447.4	450.5	426.5	386.3	344.5	292.7	234.8	182.9	141.4	107.7	9.6
37°	377.6	372.8	357.5	326.4	290.0	238.6	196.7	155.1	119.0	91.0	8.5
38°	304.6	305.6	290.7	266.8	230.7	196.2	158.3	127.4	99.5	77.5	7.4
39°	238.4	237.6	233.5	211.4	178.7	156.1	128.3	105.6	82.9	65.3	6.3
40°	179.6	181.0	171.6	158.2	139.2	120.6	102.2	84.2	68.6	55.1	4.9
42.5°	87.3	89.5	83.2	79.8	71.4	64.1	54.1	44.2	37.6	32.5	2.2
45°	42.6	41.4	40.8	39.2	37.2	33.2	29.4	25.3	22.1	19.0	1.4
47.5°	21.8	21.2	21.2	20.5	19.8	18.5	16.6	15.3	13.7	11.8	0.5
50°	6.5	6.4	6.4	6.4	6.2	6.4	6.6	6.7	6.1	6.0	0.2
52.5°	2.6	2.7	2.6	2.8	2.8	2.7	2.8	2.7	2.7	2.4	0.0
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.9	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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°	2.6	2.6	2.6	2.6	2.6	2.6
2.5°	3.0	2.7	2.2	1.8	1.7	1.6
5°	3.3	2.4	1.7	1.3	1.1	1.1
7.5°	3.5	2.2	1.3	0.9	0.7	0.6
10°	3.6	1.9	1.0	0.5	0.4	0.4
12.5°	3.6	1.5	0.7	0.3	0.2	0.2
15°	3.6	1.3	0.5	0.2	0.2	0.2
17.5°	3.5	1.0	0.3	0.2	0.1	0.2
20°	3.3	0.8	0.2	0.1	0.1	0.1
21°	3.2	0.7	0.2	0.1	0.1	0.1
22°	3.0	0.6	0.1	0.0	0.1	0.1
23°	2.9	0.5	0.1	0.0	0.0	0.0
24°	2.7	0.4	0.1	0.0	0.0	0.0
25°	2.5	0.4	0.1	0.0	0.0	0.0
26°	2.4	0.2	0.0	0.0	0.0	0.0
27°	2.1	0.2	0.0	0.0	0.0	0.0
28°	2.0	0.2	0.0	0.0	0.0	0.0
29°	1.7	0.2	0.0	0.0	0.0	0.0
30°	1.5	0.2	0.0	0.0	0.0	0.0
31°	1.2	0.1	0.0	0.0	0.0	0.0
32°	1.0	0.1	0.0	0.0	0.0	0.0
33°	0.7	0.1	0.0	0.0	0.0	0.0
34°	0.5	0.1	0.0	0.0	0.0	0.0
35°	0.4	0.1	0.0	0.0	0.0	0.0
36°	0.2	0.1	0.0	0.0	0.0	0.1
37°	0.2	0.1	0.0	0.0	0.0	0.1
38°	0.2	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.2
45°	0.0	0.1	0.0	0.0	0.1	0.2
47.5°	0.0	0.1	0.0	0.0	0.2	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.2
52.5°	0.0	0.2	0.1	0.2	0.2	0.3
55°	0.1	0.2	0.2	0.2	0.3	0.4
57.5°	0.1	0.2	0.2	0.3	0.4	0.4
60°	0.2	0.2	0.3	0.3	0.5	0.5
62.5°	0.2	0.3	0.3	0.3	0.5	0.5
65°	0.2	0.3	0.3	0.4	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.4	0.5
70°	0.2	0.3	0.2	0.3	0.4	0.4
72.5°	0.2	0.3	0.2	0.2	0.3	0.4
75°	0.2	0.3	0.2	0.2	0.3	0.3
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)