

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: P1334149

Luminaire Tested: P3A02R159830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334149
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: P3A02R159830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

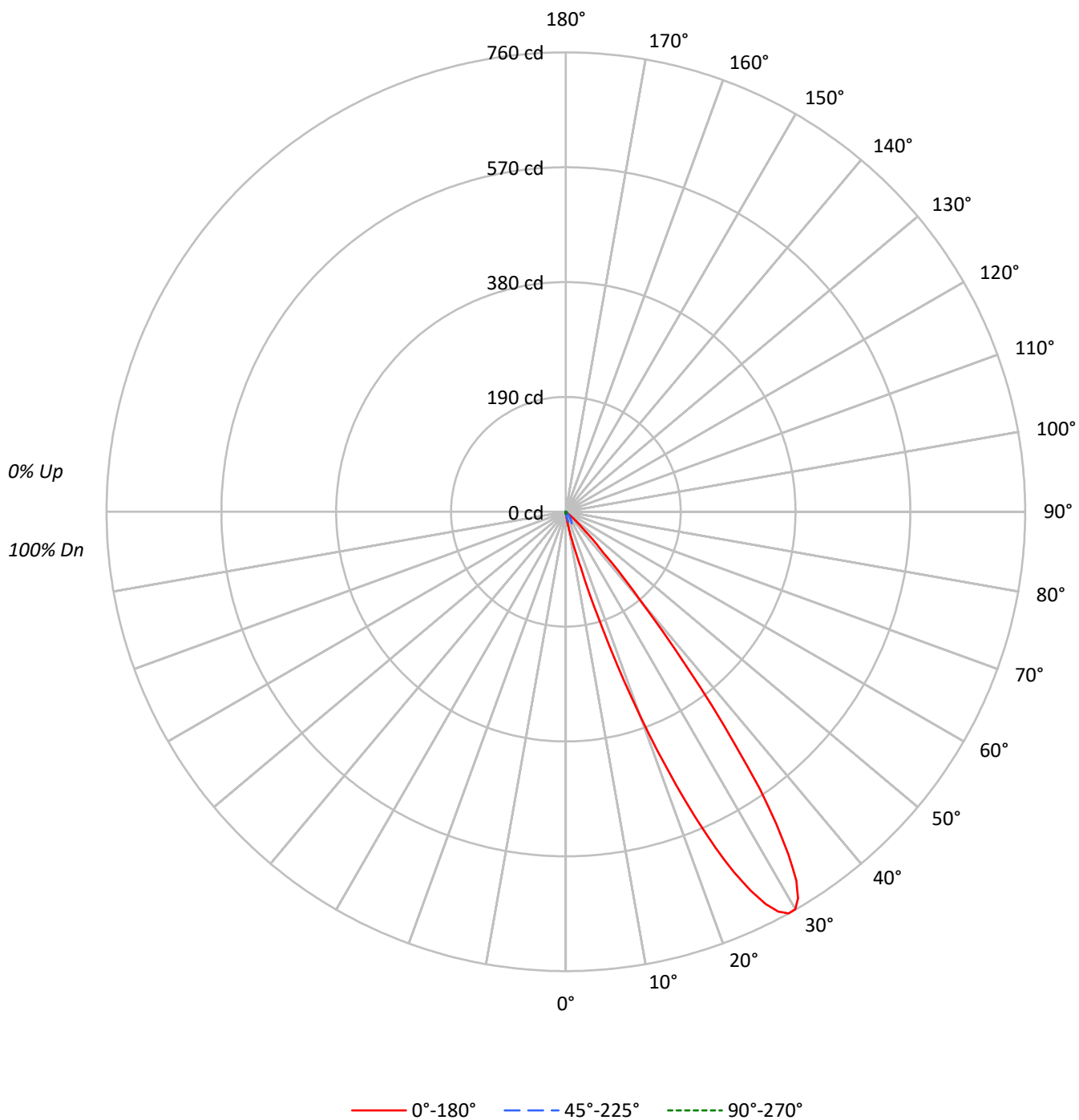
Lumens per Lamp: N/A
Luminaire Lumens: 83.0 lumens
Efficiency: N/A
Efficacy: 23.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.5 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	69	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°	592	592	592	592	592
5°	1299	969	572	308	242
10°	5745	1826	445	134	89
15°	21748	4200	318	45	45
20°	83681	5927	187	23	23
25°	159106	5541	97	0	0
30°	192207	4482	51	0	0
35°	149908	3052	27	0	0
40°	54702	1489	29	0	29
45°	14048	465	31	0	62
50°	2354	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: 14048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	6.4	7.7
20°-30°	35.3	42.5
30°-40°	34.1	41.0
40°-50°	5.9	7.1
50°-60°	0.4	0.5
60°-70°	0.3	0.3
70°-80°	0.2	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°	42.0	50.6
0°-40°	76.1	91.7
0°-60°	82.5	99.3
0°-90°	83.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	83.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	6	4	3	1	1	1
15°	96	18	1	0	0	43
25°	658	23	0	0	0	294
35°	560	11	0	0	0	322
45°	45	2	0	0	0	49
55°	1	0	0	0	0	2
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°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	4.0	3.9	4.0	4.0	4.0	4.0	4.0	3.8	3.8	3.9	3.5
5°	5.9	5.9	5.8	5.9	5.9	5.8	5.7	5.6	5.6	5.4	4.4
7.5°	11.8	11.6	11.6	11.5	10.7	10.4	10.3	9.9	9.1	9.0	5.7
10°	25.8	25.9	25.4	24.6	24.5	23.3	22.9	22.2	20.8	19.5	8.2
12.5°	46.9	45.9	44.5	44.6	42.2	41.4	39.6	37.5	35.4	33.3	13.4
15°	95.8	92.8	94.6	90.3	85.3	79.8	74.1	67.0	61.0	54.5	18.5
17.5°	201.8	204.8	199.8	181.2	169.7	156.2	137.3	118.9	103.3	90.7	22.6
20°	358.6	362.8	346.1	329.9	302.0	271.7	240.0	204.2	169.9	140.2	25.4
21°	424.0	421.5	414.6	388.6	356.5	321.3	282.5	242.9	201.4	162.8	25.6
22°	487.3	488.5	472.6	445.4	411.9	372.9	325.6	276.8	232.0	181.2	25.2
23°	550.4	554.3	533.1	507.6	465.5	421.5	366.8	314.1	258.7	202.2	24.4
24°	608.8	606.1	591.8	559.7	514.7	463.2	406.4	342.4	280.6	220.3	23.7
25°	657.6	657.3	634.8	603.6	552.2	495.1	432.4	365.6	299.5	232.4	22.9
26°	697.6	691.0	673.4	635.2	584.5	524.2	453.8	382.5	310.0	238.6	22.1
27°	728.4	723.7	700.0	660.4	607.3	540.7	467.6	390.9	314.9	240.6	21.1
28°	749.2	744.1	718.8	678.0	619.9	551.0	474.8	394.4	314.9	238.7	20.1
29°	759.9	753.0	727.8	684.0	622.8	552.2	473.0	390.9	310.0	232.7	19.0
30°	759.1	750.5	724.1	678.5	614.2	542.3	463.1	378.4	298.8	223.8	17.7
31°	746.0	736.3	706.9	660.0	596.3	523.6	444.4	361.6	283.6	212.3	16.4
32°	719.5	707.2	678.4	631.7	568.9	495.6	417.2	335.7	260.7	195.4	15.0
33°	676.2	663.8	633.0	589.1	531.7	460.0	381.1	307.9	234.7	175.3	13.9
34°	622.0	610.7	584.1	540.0	484.9	415.1	339.6	269.3	207.7	155.3	12.7
35°	560.0	542.0	517.9	483.0	429.3	359.0	294.8	233.5	180.0	134.4	11.4
36°	476.1	479.3	453.8	411.0	366.6	311.5	249.8	194.7	150.5	114.6	10.3
37°	401.8	396.7	380.4	347.3	308.6	253.9	209.4	165.0	126.6	96.9	9.0
38°	324.1	325.2	309.3	283.9	245.4	208.8	168.5	135.6	105.9	82.4	7.9
39°	253.7	252.8	248.5	224.9	190.1	166.1	136.5	112.4	88.2	69.5	6.7
40°	191.1	192.6	182.5	168.3	148.1	128.3	108.8	89.6	73.0	58.6	5.2
42.5°	92.9	95.2	88.6	84.9	76.0	68.2	57.6	47.0	40.0	34.6	2.3
45°	45.3	44.0	43.4	41.7	39.6	35.4	31.3	26.9	23.5	20.3	1.5
47.5°	23.2	22.5	22.5	21.8	21.1	19.7	17.7	16.2	14.6	12.6	0.6
50°	6.9	6.9	6.8	6.9	6.6	6.9	7.0	7.1	6.5	6.4	0.2
52.5°	2.7	2.8	2.7	3.0	3.0	2.9	3.0	2.9	2.8	2.5	0.0
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	0.9	1.0	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°	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	3.2	2.8	2.3	1.9	1.8	1.7
5°	3.5	2.6	1.8	1.4	1.2	1.1
7.5°	3.7	2.3	1.4	1.0	0.7	0.6
10°	3.9	2.0	1.0	0.6	0.4	0.4
12.5°	3.9	1.6	0.7	0.3	0.2	0.2
15°	3.8	1.4	0.5	0.2	0.2	0.2
17.5°	3.7	1.0	0.3	0.2	0.1	0.2
20°	3.5	0.8	0.2	0.1	0.1	0.1
21°	3.4	0.7	0.2	0.1	0.1	0.1
22°	3.2	0.6	0.1	0.0	0.1	0.1
23°	3.1	0.5	0.1	0.0	0.0	0.0
24°	2.8	0.4	0.1	0.0	0.0	0.0
25°	2.7	0.4	0.1	0.0	0.0	0.0
26°	2.5	0.2	0.0	0.0	0.0	0.0
27°	2.3	0.2	0.0	0.0	0.0	0.0
28°	2.1	0.2	0.0	0.0	0.0	0.0
29°	1.9	0.2	0.0	0.0	0.0	0.0
30°	1.6	0.2	0.0	0.0	0.0	0.0
31°	1.3	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)