

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: P1334489

Luminaire Tested: P3A02R209835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334489
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: P3A02R209835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

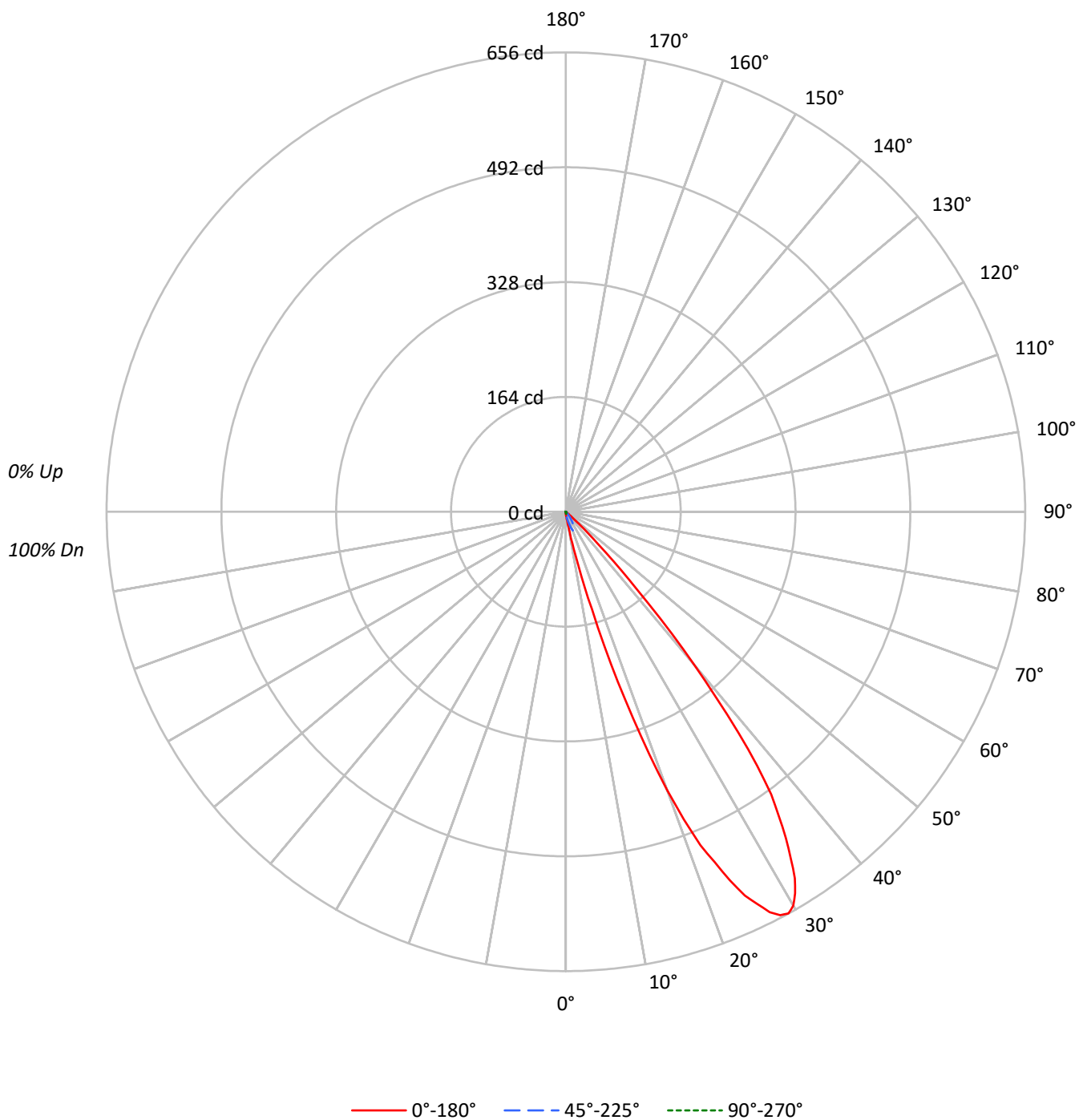
Lumens per Lamp: N/A
Luminaire Lumens: 92.1 lumens
Efficiency: N/A
Efficacy: 25.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	50	30	10
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	99	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	68	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	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	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	702	702	702	702	702
5°	1607	1189	660	396	352
10°	5032	2071	534	223	178
15°	32622	3837	409	68	23
20°	98475	6581	280	0	0
25°	146258	6654	169	0	0
30°	164456	5039	76	0	0
35°	141904	3025	54	0	0
40°	81725	1031	0	0	0
45°	19940	403	31	0	31
50°	2388	102	34	34	102
55°	306	0	76	76	115
60°	44	0	132	132	175
65°	52	52	156	156	259
70°	64	64	192	192	256
75°	0	85	254	254	254
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 20064 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	8.5	9.3
20°-30°	37.2	40.4
30°-40°	37.4	40.7
40°-50°	7.5	8.2
50°-60°	0.4	0.4
60°-70°	0.2	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°	46.1	50.1
0°-40°	83.5	90.7
0°-60°	91.4	99.3
0°-90°	92.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	92.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	7	5	3	2	2	1
15°	144	17	2	0	0	56
25°	604	28	1	0	0	273
35°	530	11	0	0	0	315
45°	64	1	0	0	0	70
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°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
2.5°	4.8	4.8	4.7	4.7	4.6	4.7	4.5	4.6	4.6	4.5	4.1
5°	7.3	7.4	7.3	7.3	7.3	7.3	7.2	7.0	6.8	6.8	5.4
7.5°	11.9	11.9	11.7	11.8	11.5	11.4	11.2	11.1	10.6	10.3	7.1
10°	22.6	23.1	22.7	22.6	21.1	21.0	20.0	18.6	17.4	16.7	9.3
12.5°	62.3	64.9	60.8	58.8	57.6	53.1	51.2	46.2	41.5	37.9	11.9
15°	143.7	150.3	141.9	142.5	135.5	122.6	111.3	101.7	90.2	78.7	16.9
17.5°	281.6	276.3	271.7	263.9	249.6	230.8	206.5	181.9	160.6	138.3	23.6
20°	422.0	417.2	406.8	389.9	371.7	343.7	314.8	277.9	242.1	208.5	28.2
21°	470.3	468.7	451.6	441.2	413.2	386.4	353.1	313.6	273.3	233.5	29.0
22°	513.5	504.0	494.8	479.3	451.5	422.4	385.4	343.7	300.0	255.8	29.0
23°	543.4	539.0	530.3	512.9	485.2	451.0	412.0	368.4	322.3	271.6	28.8
24°	576.4	570.9	558.2	537.9	509.9	476.2	431.6	388.4	338.3	284.9	28.1
25°	604.5	595.9	580.8	558.9	528.3	493.5	448.7	401.2	349.4	293.8	27.5
26°	622.7	618.0	598.7	574.8	542.1	506.2	460.5	411.1	356.6	297.9	26.4
27°	641.6	633.0	614.1	586.6	551.1	514.5	467.2	415.8	359.1	298.1	25.0
28°	652.5	643.1	621.7	592.8	557.0	519.1	471.0	417.3	358.6	295.5	23.5
29°	655.9	644.1	623.2	593.8	558.4	519.4	470.4	415.2	354.1	289.1	21.6
30°	649.5	637.5	617.6	589.0	553.9	515.2	465.0	408.0	346.3	280.0	19.9
31°	635.7	625.5	606.3	577.6	543.9	505.5	452.7	396.2	332.9	267.8	18.0
32°	617.4	607.4	588.5	562.6	528.3	489.5	435.9	377.8	317.3	249.6	16.1
33°	589.9	584.2	567.2	542.4	508.1	466.7	413.4	355.9	294.9	229.4	14.4
34°	562.1	554.9	543.0	515.9	479.0	437.7	384.0	325.6	267.6	206.8	12.9
35°	530.1	525.8	507.1	485.4	448.4	406.1	352.8	296.1	235.8	181.6	11.3
36°	499.0	492.4	471.2	448.2	412.2	366.6	313.9	260.7	208.3	158.0	9.6
37°	454.0	443.8	428.7	404.5	362.4	323.5	275.4	226.0	174.5	132.5	7.8
38°	401.0	396.2	375.3	350.9	316.1	279.2	231.6	189.7	144.0	110.6	5.9
39°	338.5	338.4	318.3	300.7	266.7	233.5	190.6	154.0	118.9	89.1	4.6
40°	285.5	275.6	263.3	241.1	215.0	186.8	149.2	120.5	92.2	71.8	3.6
42.5°	149.7	148.8	141.6	124.9	110.3	93.7	74.5	62.1	48.6	39.6	2.3
45°	64.3	64.7	59.7	57.2	51.5	44.6	37.6	31.4	26.9	21.8	1.3
47.5°	16.3	15.6	15.4	16.0	16.0	15.5	13.9	13.1	12.1	11.1	0.8
50°	7.0	6.8	6.7	6.7	6.3	6.0	5.6	5.1	4.7	4.2	0.3
52.5°	2.6	2.7	2.8	2.7	2.7	2.6	2.6	2.5	2.3	2.0	0.2
55°	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.0
57.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°	3.2	3.2	3.2	3.2	3.2	3.2
2.5°	3.7	3.3	2.8	2.3	2.3	2.2
5°	4.1	3.0	2.3	1.8	1.7	1.6
7.5°	4.4	2.8	1.8	1.3	1.2	1.1
10°	4.6	2.4	1.5	1.0	0.8	0.8
12.5°	4.7	2.1	1.1	0.7	0.4	0.4
15°	4.6	1.8	0.8	0.3	0.1	0.1
17.5°	4.2	1.4	0.5	0.1	0.0	0.0
20°	3.6	1.2	0.3	0.0	0.0	0.0
21°	3.4	1.0	0.3	0.0	0.0	0.0
22°	3.2	0.9	0.2	0.0	0.0	0.0
23°	2.9	0.8	0.2	0.0	0.0	0.0
24°	2.7	0.8	0.1	0.0	0.0	0.0
25°	2.5	0.7	0.1	0.0	0.0	0.0
26°	2.3	0.6	0.1	0.0	0.0	0.0
27°	2.1	0.5	0.0	0.0	0.0	0.0
28°	1.9	0.4	0.0	0.0	0.0	0.0
29°	1.7	0.3	0.0	0.0	0.0	0.0
30°	1.4	0.3	0.0	0.0	0.0	0.0
31°	1.2	0.3	0.0	0.0	0.0	0.0
32°	1.0	0.2	0.0	0.0	0.0	0.0
33°	0.8	0.2	0.0	0.0	0.0	0.0
34°	0.8	0.2	0.0	0.0	0.0	0.0
35°	0.7	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.1	0.0	0.0	0.0	0.0
37°	0.4	0.1	0.0	0.0	0.0	0.0
38°	0.3	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	0.3	0.3
57.5°	0.1	0.2	0.2	0.3	0.3	0.4
60°	0.2	0.3	0.3	0.3	0.4	0.4
62.5°	0.2	0.3	0.3	0.3	0.4	0.5
65°	0.2	0.3	0.3	0.3	0.4	0.5
67.5°	0.3	0.3	0.3	0.3	0.4	0.5
70°	0.3	0.3	0.3	0.3	0.4	0.4
72.5°	0.3	0.3	0.3	0.3	0.3	0.4
75°	0.3	0.3	0.3	0.3	0.3	0.3
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)