

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: P1340517

Luminaire Tested: P3A09R209830DE010 E3A451LI

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R209830DE010 E3A451LI
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A451LI TRIM
Light Source: -
Ballast/Driver: -

Summary

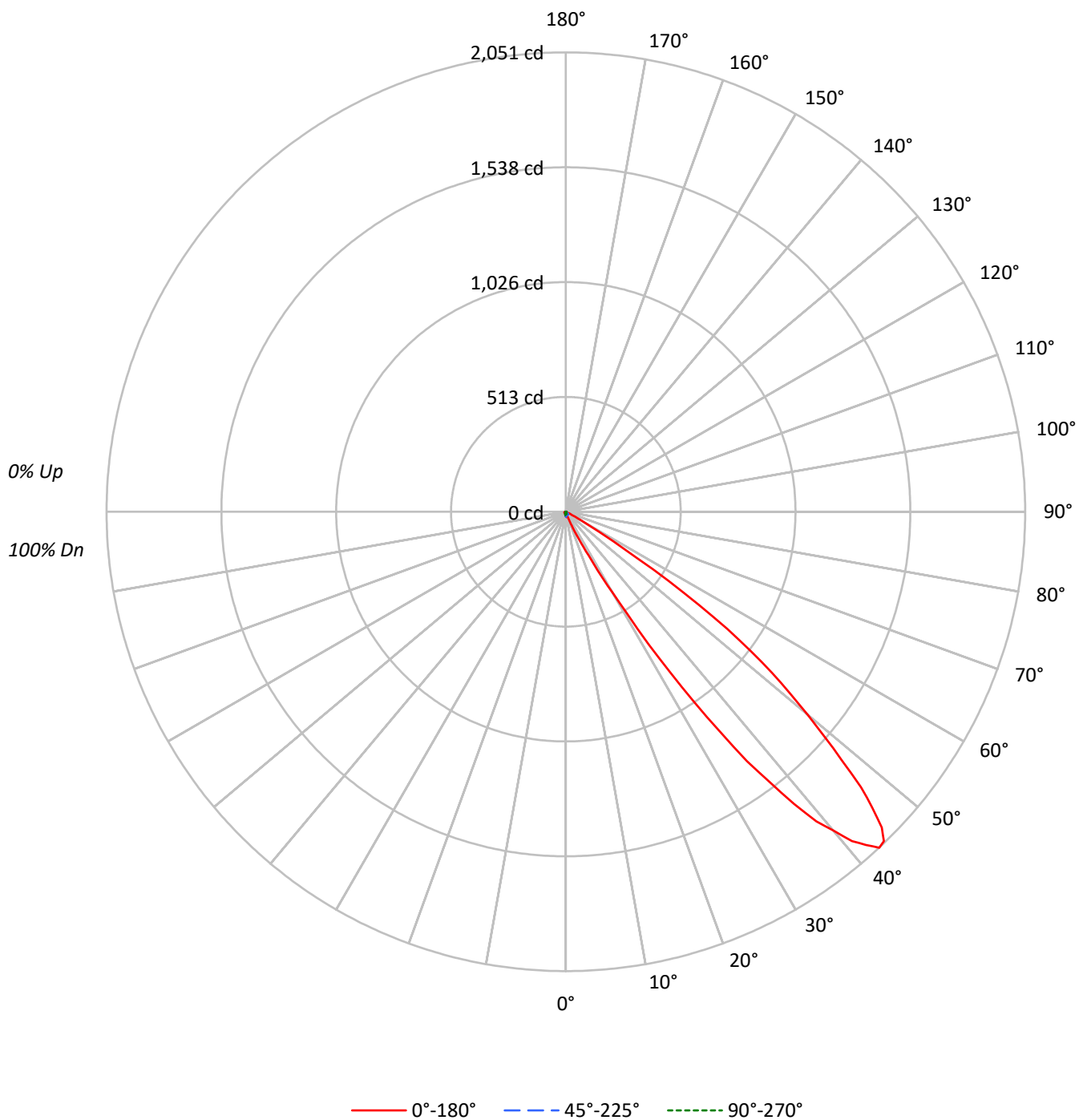
Lumens per Lamp: N/A
Luminaire Lumens: 285.0 lumens
Efficiency: N/A
Efficacy: 25.9 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	27
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	48	34	25	20	47	33	25	20	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4342	4342	4342	4342	4342
5°	5063	4711	4072	3544	3412
10°	5010	4297	3229	2739	2694
15°	4381	3292	2361	2179	2316
20°	6511	2754	1750	1867	2054
25°	27994	2855	1355	1694	2008
30°	105864	3469	1165	1621	1975
35°	320910	4149	1071	1660	2088
40°	532140	4151	916	1775	2233
45°	618545	2822	837	1830	2419
50°	480155	1569	819	1910	2729
55°	277897	1032	803	2141	2982
60°	46970	219	702	2237	3289
65°	3632	0	830	2491	3736
70°	513	0	1026	2757	4296
75°	424	254	1101	3135	4999
80°	379	379	1642	3410	5809
85°	755	755	2768	3271	6038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 618545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.6
10°-20°	3.6	1.3
20°-30°	11.4	4.0
30°-40°	72.7	25.5
40°-50°	133.0	46.7
50°-60°	54.7	19.2
60°-70°	4.6	1.6
70°-80°	2.3	0.8
80°-90°	1.1	0.4
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°	16.7	5.8
0°-40°	89.3	31.3
0°-60°	277.0	97.2
0°-90°	285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	285.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	23	21	18	16	16	2
15°	19	14	10	10	10	6
25°	116	12	6	7	8	76
35°	1199	16	4	6	8	759
45°	1995	9	3	6	8	1432
55°	727	3	2	6	8	635
65°	7	0	2	5	7	23
75°	0	0	1	4	6	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.1	2.1	1.9	1.9	1.9	1.6	1.6	1.3	1.3	1.1	0.0
70°	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.3	0.3	0.0
72.5°	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
77.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	20.6	19.6	18.7	17.9	17.7	17.7
5°	20.1	18.5	16.9	16.1	15.5	15.5
7.5°	18.5	16.6	15.0	14.2	13.9	13.9
10°	16.6	14.5	12.9	12.3	12.3	12.1
12.5°	14.5	12.3	11.2	11.0	11.0	11.0
15°	12.1	10.4	9.6	9.6	9.9	10.2
17.5°	10.2	8.6	8.3	8.8	9.4	9.4
20°	8.6	7.5	7.5	8.0	8.6	8.8
22.5°	7.2	6.4	6.7	7.5	8.3	8.6
25°	6.4	5.6	6.2	7.0	7.8	8.3
27.5°	5.4	5.1	5.6	6.7	7.8	8.0
30°	4.6	4.6	5.4	6.4	7.5	7.8
31°	4.3	4.3	5.4	6.4	7.5	7.8
32°	4.0	4.3	5.1	6.4	7.5	7.8
33°	3.7	4.0	5.1	6.2	7.5	7.8
34°	3.5	4.0	5.1	6.2	7.5	7.8
35°	3.2	4.0	5.1	6.2	7.5	7.8
36°	2.9	3.7	4.8	6.2	7.5	7.8
37°	2.7	3.7	4.8	6.2	7.5	7.8
38°	2.4	3.5	4.8	6.2	7.5	7.8
39°	2.4	3.5	4.6	6.2	7.2	7.8
40°	2.1	3.2	4.6	6.2	7.2	7.8
41°	1.9	3.2	4.6	5.9	7.2	7.8
42°	1.6	2.9	4.3	5.9	7.2	7.8
43°	1.3	2.9	4.3	5.9	7.2	7.8
44°	1.3	2.7	4.3	5.9	7.2	7.8
45°	1.1	2.7	4.3	5.9	7.2	7.8
46°	0.8	2.7	4.3	5.9	7.2	7.8
47°	0.8	2.4	4.0	5.9	7.2	7.8
48°	0.5	2.4	4.0	5.9	7.2	7.8
49°	0.5	2.4	4.0	5.9	7.2	8.0
50°	0.5	2.4	4.0	5.6	7.2	8.0
51°	0.3	2.4	4.0	5.6	7.2	8.0
52°	0.3	2.4	3.7	5.6	7.5	8.0
53°	0.3	2.1	3.7	5.6	7.5	8.0
54°	0.3	2.1	3.7	5.6	7.5	7.8
55°	0.3	2.1	3.7	5.6	7.2	7.8
56°	0.3	1.9	3.7	5.6	7.2	7.8
57°	0.3	1.9	3.5	5.4	7.2	7.5
58°	0.3	1.9	3.5	5.4	7.2	7.5
59°	0.3	1.9	3.5	5.4	7.0	7.5
60°	0.5	1.6	3.2	5.1	7.0	7.5
62.5°	0.5	1.6	3.2	5.1	6.7	7.2
65°	0.5	1.6	2.9	4.8	6.7	7.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	1.3	2.7	4.6	6.4	7.0
70°	0.5	1.6	2.7	4.3	6.2	6.7
72.5°	0.8	1.3	2.4	4.0	5.9	6.4
75°	0.8	1.3	2.4	3.7	5.6	5.9
77.5°	1.1	1.3	2.1	3.2	5.1	5.4
80°	1.1	1.3	1.9	2.7	4.3	4.6
82.5°	1.1	1.3	1.3	2.1	3.2	3.5
85°	0.8	1.1	1.1	1.3	2.1	2.4
87.5°	0.8	1.1	0.8	0.5	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)