

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: P1338846

Luminaire Tested: P3A05R409030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R409030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

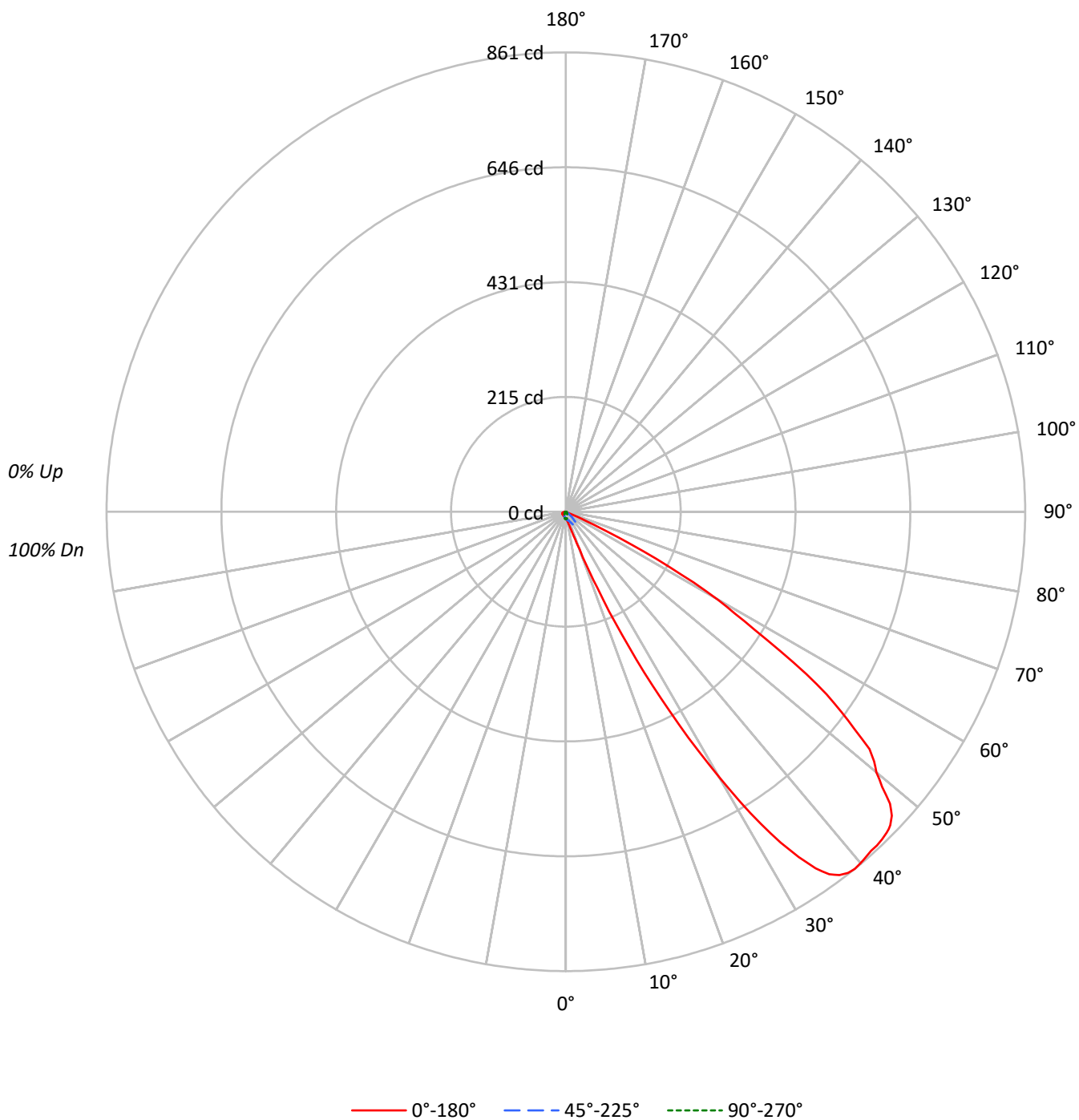
Lumens per Lamp: N/A
Luminaire Lumens: 266.0 lumens
Efficiency: N/A
Efficacy: 24.0 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	42	33	27	40	32	27		39	32	27		38	31	26	24
9	52	38	29	23	51	37	29	23	36	28	23		35	28	23		34	27	23	21
10	48	34	25	20	47	33	25	20	32	25	20		31	24	20		30	24	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3004	3004	3004	3004	3004
5°	3324	3236	2950	2685	2641
10°	4030	3429	2716	2449	2382
15°	6606	3723	2338	2157	2225
20°	17455	4387	1937	1937	2100
25°	67262	5444	1548	1766	2057
30°	145111	7242	1241	1722	2051
35°	218410	8566	1044	1713	2088
40°	246061	8588	916	1746	2233
45°	263841	6667	837	1830	2419
50°	259335	4162	751	1910	2661
55°	228159	2064	765	2141	2982
60°	144418	439	877	2368	3333
65°	29523	104	882	2542	3684
70°	641	128	962	2821	4231
75°	593	424	1017	3135	4745
80°	631	253	1263	3410	5556
85°	503	503	2516	3774	6038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 268636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	4.2	1.6
20°-30°	20.7	7.8
30°-40°	67.2	25.3
40°-50°	92.6	34.8
50°-60°	64.5	24.3
60°-70°	12.2	4.6
70°-80°	2.2	0.8
80°-90°	1.0	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°	26.2	9.8
0°-40°	93.4	35.1
0°-60°	250.5	94.2
0°-90°	266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	266.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	15	15	13	12	12	2
15°	29	16	10	10	10	11
25°	278	22	6	7	8	143
35°	816	32	4	6	8	493
45°	851	22	3	6	8	647
55°	597	5	2	6	8	510
65°	57	0	2	5	7	101
75°	1	0	1	4	6	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	13.9	13.7
5°	15.1	15.1	15.1	15.1	14.9	14.9	14.9	14.7	14.7	14.2	13.4
7.5°	16.1	16.1	16.1	16.1	15.9	15.6	15.4	15.4	15.1	13.9	12.9
10°	18.1	18.1	17.8	17.6	17.3	16.9	16.6	16.1	15.4	13.7	12.2
12.5°	22.0	21.5	21.3	20.8	20.0	19.1	18.1	17.3	15.6	13.2	11.5
15°	29.1	28.6	27.6	26.1	24.7	22.7	21.0	19.3	16.4	12.5	10.3
17.5°	41.5	40.1	38.6	36.2	32.5	29.1	25.4	22.2	17.3	11.7	9.3
20°	74.8	73.8	65.0	58.1	47.1	39.3	32.0	26.6	18.8	11.0	8.3
22.5°	154.1	143.9	129.5	106.0	82.6	60.8	44.2	33.5	20.3	10.0	7.3
25°	278.0	261.9	230.8	185.7	137.0	97.0	64.0	43.7	22.5	9.0	6.4
27.5°	420.9	404.5	356.4	294.1	214.7	146.3	91.4	57.9	25.4	8.1	5.6
30°	573.1	559.2	498.1	411.9	302.7	205.0	122.4	72.3	28.6	7.1	4.9
31°	634.4	616.6	550.6	458.8	344.0	229.1	134.8	78.4	29.8	6.8	4.6
32°	690.8	670.6	602.2	503.7	377.4	255.3	148.5	83.8	30.8	6.4	4.4
33°	739.4	715.8	649.8	546.2	414.3	279.7	162.7	88.9	31.5	5.9	4.2
34°	780.7	760.2	689.4	589.0	447.0	303.2	176.6	94.0	32.0	5.6	3.9
35°	815.9	797.3	727.2	621.5	479.0	325.9	189.3	98.9	32.0	5.1	3.9
36°	839.6	823.5	760.0	654.7	505.9	345.2	200.1	103.3	32.0	4.6	3.7
37°	852.6	836.9	781.5	682.0	532.3	364.2	209.8	106.8	31.8	4.4	3.4
38°	859.1	845.5	797.3	704.3	550.6	377.9	218.4	109.4	31.5	3.9	3.4
39°	860.9	849.4	807.4	720.4	568.4	391.6	224.5	110.9	30.8	3.7	3.2
40°	859.6	849.6	812.7	734.8	582.1	402.3	228.9	111.4	30.0	3.2	3.2
41°	857.2	849.4	816.6	744.8	593.1	409.2	230.6	110.4	29.1	2.7	2.9
42°	855.0	846.4	818.4	751.7	600.7	412.6	230.4	108.5	27.6	2.4	2.9
43°	855.0	845.2	818.6	756.1	604.4	412.8	227.4	104.8	25.6	2.2	2.7
44°	853.5	844.5	819.8	759.0	605.3	410.6	222.8	100.9	23.5	2.0	2.7
45°	850.8	841.3	819.6	759.2	603.6	405.3	215.2	95.8	21.5	1.5	2.7
46°	845.7	837.2	817.4	757.5	598.5	397.5	206.2	90.6	19.3	1.2	2.4
47°	835.5	828.9	811.5	751.7	590.7	386.0	195.4	84.8	17.6	1.0	2.4
48°	817.9	813.2	801.5	738.7	575.8	371.8	183.9	78.4	15.9	1.0	2.4
49°	785.6	782.0	775.1	718.0	556.7	354.5	171.5	71.3	14.2	0.7	2.4
50°	760.2	756.3	742.4	683.0	529.4	332.5	157.8	64.2	12.2	0.5	2.2
51°	743.4	737.0	715.0	642.5	489.5	303.2	142.9	57.2	10.3	0.5	2.2
52°	722.1	712.6	685.2	606.1	453.1	273.8	126.8	50.1	9.0	0.5	2.2
53°	677.6	674.2	647.1	567.0	416.7	245.7	110.2	44.2	7.8	0.5	2.2
54°	638.8	633.7	596.8	512.8	377.2	214.5	93.1	39.1	6.6	0.5	2.2
55°	596.8	586.8	554.0	467.1	330.8	185.7	76.7	33.7	5.4	0.5	2.0
56°	543.8	535.0	499.8	418.2	288.0	156.3	64.2	27.6	4.2	0.5	2.0
57°	479.3	471.2	444.1	358.1	243.6	127.8	52.3	22.2	3.2	0.5	2.0
58°	417.0	408.0	376.9	300.5	196.6	101.4	43.7	18.1	2.4	0.5	2.0
59°	369.1	356.9	316.8	252.3	153.9	76.9	34.7	14.4	1.7	0.5	2.0
60°	329.3	319.3	277.8	210.1	120.7	56.7	25.6	11.0	1.0	0.5	2.0
62.5°	190.8	188.1	150.7	108.2	56.9	26.4	12.7	5.1	0.5	0.7	2.0
65°	56.9	49.6	38.6	23.0	14.7	8.8	4.6	1.7	0.2	0.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.0	0.5	0.2	0.7	1.7
70°	1.0	0.7	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.7	1.5
72.5°	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.2	0.5	0.7	1.2
75°	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.7	1.2
77.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.5	0.7	1.2
80°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.7	0.7
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):

	112.5°	135°	157.5°	180°
0°	13.7	13.7	13.7	13.7
2.5°	13.2	12.9	12.7	12.7
5°	12.7	12.2	12.2	12.0
7.5°	12.0	11.5	11.5	11.5
10°	11.2	11.0	11.0	10.7
12.5°	10.3	10.3	10.3	10.3
15°	9.5	9.5	9.8	9.8
17.5°	8.5	8.8	9.3	9.5
20°	7.8	8.3	8.8	9.0
22.5°	7.3	7.8	8.5	8.8
25°	6.6	7.3	8.3	8.5
27.5°	6.1	7.1	7.8	8.3
30°	5.6	6.8	7.6	8.1
31°	5.6	6.6	7.6	8.1
32°	5.4	6.4	7.6	7.8
33°	5.4	6.4	7.6	7.8
34°	5.1	6.4	7.3	7.8
35°	5.1	6.4	7.3	7.8
36°	4.9	6.1	7.3	7.8
37°	4.9	6.1	7.3	7.8
38°	4.6	6.1	7.3	7.8
39°	4.6	6.1	7.3	7.8
40°	4.6	6.1	7.3	7.8
41°	4.4	6.1	7.3	7.8
42°	4.4	6.1	7.3	7.8
43°	4.4	5.9	7.3	7.8
44°	4.4	5.9	7.3	7.8
45°	4.2	5.9	7.3	7.8
46°	4.2	5.9	7.3	7.8
47°	4.2	5.9	7.3	7.8
48°	4.2	5.9	7.3	7.8
49°	4.2	5.9	7.3	7.8
50°	3.9	5.6	7.3	7.8
51°	3.9	5.6	7.3	7.8
52°	3.9	5.6	7.3	7.8
53°	3.9	5.6	7.3	7.8
54°	3.7	5.6	7.3	7.8
55°	3.7	5.6	7.3	7.8
56°	3.7	5.6	7.3	7.6
57°	3.7	5.6	7.1	7.6
58°	3.7	5.4	7.1	7.6
59°	3.7	5.4	7.1	7.6
60°	3.7	5.4	7.1	7.6
62.5°	3.4	5.4	6.8	7.3
65°	3.2	4.9	6.8	7.1



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	3.2	4.6	6.4	6.8
70°	2.9	4.4	6.1	6.6
72.5°	2.4	4.2	5.6	6.1
75°	2.2	3.7	5.1	5.6
77.5°	2.0	3.2	4.6	4.9
80°	1.7	2.7	3.9	4.4
82.5°	1.2	2.0	3.2	3.4
85°	1.0	1.5	2.2	2.4
87.5°	0.7	0.7	1.2	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)