

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: iO LED

Report Number: P972452

Luminaire Tested: MFO-06W-927-ASYM-X-1F-UNV-STD

Issue Date: 2/27/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P972452  
SCALED TEST REPORT  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/27/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: iO LED  
Catalog Number: MFO-06W-927-ASYM-X-1F-UNV-STD  
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH ASYMMETRIC OPTICS  
6 WATTS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

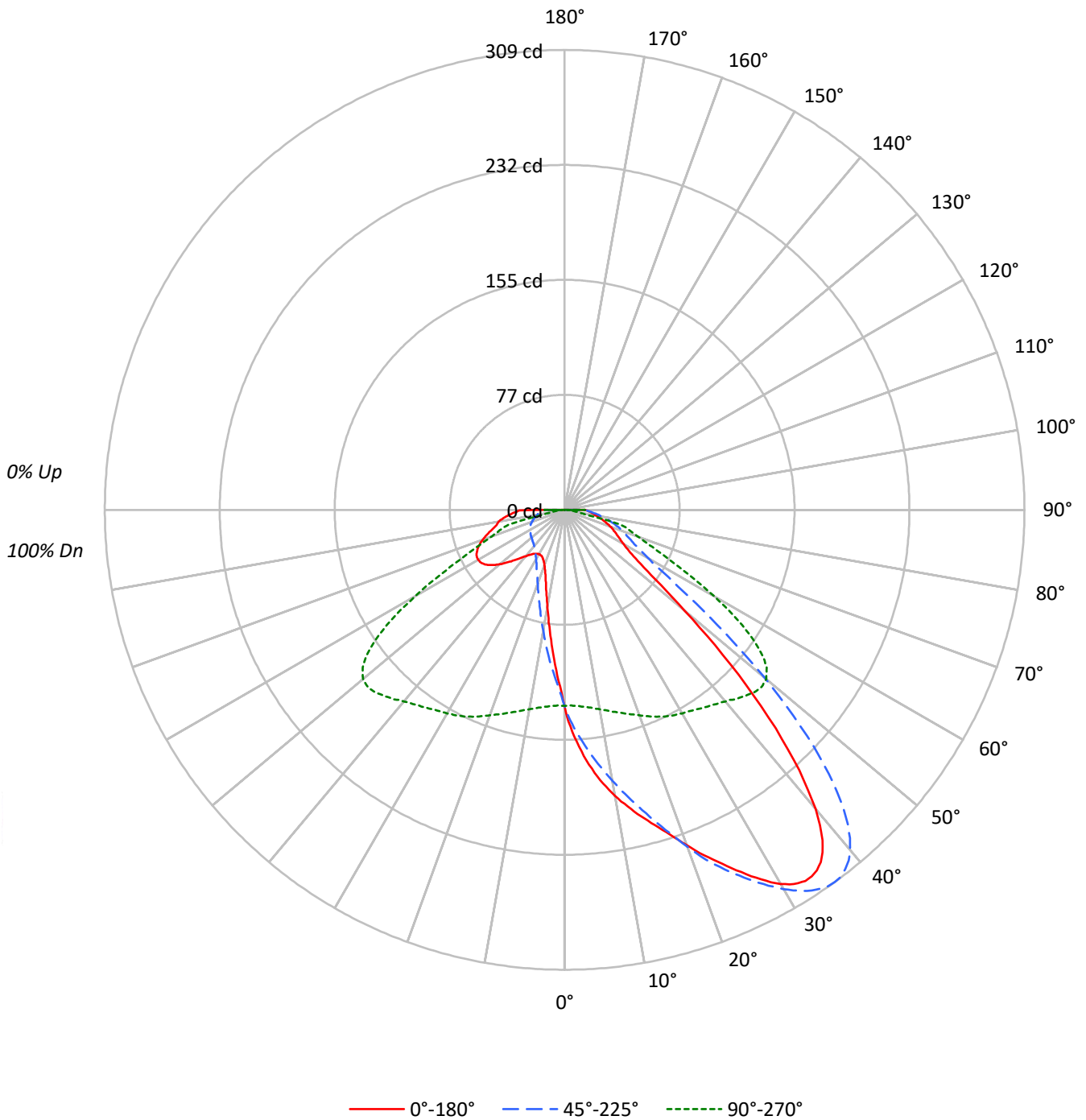
Lumens per Lamp: N/A  
Luminaire Lumens: 517.2 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 1.91 / 1.61  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 0.08' x H: 0.03')  
CIE Type: Direct  
  
Input Watts (W): 5.7  
Input Voltage (V): 120  
Input Current (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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82				
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69				
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49				
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37				
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32				
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29				
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25				
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	18702	18702	18702	18702	18702
5°	23254	22079	18878	14534	12954
10°	26200	25259	19501	11264	8917
15°	28582	28597	20569	8873	6478
20°	31411	32626	21931	7165	5181
25°	34824	36799	23654	6044	4628
30°	38330	40769	25426	5319	4544
35°	39650	43751	27491	4877	4841
40°	36007	43675	30372	4653	5585
45°	26438	38287	34103	4601	6797
50°	15614	28017	37637	4645	8389
55°	9316	17483	37210	4767	9967
60°	7494	11792	31176	4889	11052
65°	6802	9967	23660	5073	11479
70°	6337	9106	20013	5140	11302
75°	5699	8353	19036	5243	10756
80°	5142	7320	6030	5366	10890
85°	4933	6431	5501	5658	10458

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 90°  
 Luminance: 61371 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.6	2.4
10°-20°	39.3	7.6
20°-30°	71.9	13.9
30°-40°	104.8	20.3
40°-50°	109.0	21.1
50°-60°	75.8	14.7
60°-70°	48.9	9.5
70°-80°	34.0	6.6
80°-90°	20.8	4.0
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°	123.9	23.9
0°-40°	228.6	44.2
0°-60°	413.5	79.9
0°-90°	517.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	132	132	132	132	132	
5°	169	159	133	105	94	17
15°	216	211	141	66	49	62
25°	266	270	153	44	35	124
35°	296	309	162	34	36	181
45°	187	251	175	30	48	142
55°	60	103	157	28	64	58
65°	38	50	75	25	65	38
75°	27	33	39	21	50	28
85°	18	18	5	16	37	19
90°	14	14	14	14	14	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7
1°	142.1	141.0	138.6	135.3	131.7	128.0	125.0	123.0	122.4
2°	149.1	147.6	143.9	138.2	131.4	124.8	119.3	115.8	114.9
3°	156.2	154.1	148.9	141.2	132.0	122.5	114.5	109.4	107.8
4°	162.7	160.4	154.2	144.4	132.0	119.5	109.2	102.7	100.8
5°	169.1	166.5	159.2	147.6	132.8	117.3	104.8	96.8	94.2
6°	174.9	172.3	164.6	150.9	133.0	114.5	99.8	90.5	87.7
7°	180.5	177.8	169.6	154.5	133.9	112.5	95.5	85.1	81.9
8°	185.7	183.1	174.7	158.1	134.3	109.7	90.8	79.6	76.3
9°	190.5	188.1	179.8	161.8	135.4	107.8	86.7	74.8	71.2
10°	195.1	193.1	185.0	165.7	136.0	105.2	82.5	70.1	66.4
11°	199.6	197.7	189.9	169.7	137.1	103.2	78.8	66.0	62.2
12°	203.7	202.5	195.2	174.0	137.8	100.6	75.0	62.1	58.4
13°	208.0	207.1	200.3	178.2	139.0	98.7	71.7	58.6	54.9
14°	212.2	211.9	205.7	182.7	139.9	96.2	68.4	55.4	51.8
15°	216.2	216.5	211.1	187.1	141.1	94.4	65.5	52.5	49.0
16°	220.3	221.3	216.7	191.9	142.0	92.1	62.5	49.8	46.6
17°	224.8	226.3	222.4	196.8	143.3	90.3	59.9	47.6	44.4
18°	229.4	231.4	228.3	201.9	144.4	88.1	57.4	45.4	42.5
19°	234.4	237.0	234.4	206.9	145.7	86.4	55.1	43.6	40.9
20°	239.5	242.9	240.9	212.3	146.8	84.4	52.9	41.9	39.5
21°	245.2	248.9	247.2	217.6	148.3	82.6	51.0	40.4	38.3
22°	250.3	254.6	253.3	223.3	149.5	80.8	49.0	39.1	37.3
23°	255.4	259.9	258.9	228.3	150.9	79.2	47.4	38.0	36.5
24°	260.5	265.1	264.4	233.3	152.2	77.6	45.7	37.1	35.8
25°	265.6	270.6	269.7	237.6	153.2	76.2	44.3	36.2	35.3
26°	270.8	275.8	274.8	242.3	154.5	74.7	42.9	35.6	34.9
27°	276.2	281.2	279.9	246.0	155.3	73.3	41.6	35.0	34.6
28°	281.0	286.9	284.9	249.8	156.3	71.9	40.4	34.5	34.4
29°	286.1	292.5	289.6	253.4	156.9	70.5	39.3	34.2	34.4
30°	290.2	297.5	294.3	257.0	157.9	69.2	38.4	33.9	34.4
31°	293.6	302.0	298.3	259.8	158.5	67.9	37.4	33.7	34.6
32°	295.9	305.8	301.9	262.7	159.5	66.8	36.5	33.6	34.8
33°	297.2	308.5	305.0	264.9	160.2	65.6	35.7	33.6	35.1
34°	297.1	310.4	307.1	267.3	161.4	64.6	35.0	33.7	35.6
35°	295.7	311.2	308.6	268.4	162.1	63.5	34.4	33.9	36.1
36°	292.7	310.3	309.1	269.6	163.5	62.6	33.8	34.1	36.8
37°	288.0	308.6	308.5	269.6	164.2	61.6	33.2	34.5	37.6
38°	281.6	305.1	306.3	269.5	165.7	60.8	32.7	34.9	38.5
39°	272.7	300.0	303.2	268.1	166.6	59.9	32.2	35.4	39.5
40°	262.4	293.2	298.5	266.3	168.2	59.2	31.8	35.9	40.7
41°	249.4	284.8	292.3	263.3	169.3	58.4	31.4	36.5	41.9
42°	235.6	274.3	284.4	259.8	171.2	57.8	31.1	37.2	43.3
43°	219.9	262.6	274.8	255.0	172.4	57.0	30.7	38.0	44.7
44°	204.1	248.9	263.8	249.5	174.2	56.5	30.4	38.9	46.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	186.7	234.4	251.3	242.8	175.2	55.7	30.2	39.9	48.0
46°	170.0	218.1	237.4	235.4	176.8	55.3	29.9	40.8	49.8
47°	152.6	201.4	222.7	227.1	177.4	54.4	29.7	41.9	51.5
48°	136.2	183.3	206.9	218.0	178.0	53.9	29.4	43.0	53.4
49°	120.1	165.4	191.2	208.4	177.4	52.8	29.2	44.3	55.1
50°	105.9	147.2	174.9	198.3	176.8	52.2	29.0	45.4	56.9
51°	92.8	130.3	158.9	187.7	174.6	51.0	28.8	46.7	58.6
52°	82.1	114.3	143.2	176.5	172.2	50.0	28.6	47.7	60.2
53°	72.9	100.8	128.6	165.2	168.2	48.5	28.4	49.0	61.7
54°	65.8	89.0	114.7	153.5	163.4	47.3	28.2	50.0	63.1
55°	60.1	79.5	102.7	142.0	157.1	45.4	28.0	51.2	64.3
56°	55.9	71.8	91.9	130.4	150.3	43.8	27.7	52.0	65.3
57°	52.4	65.9	83.0	119.4	142.4	41.8	27.6	53.0	66.0
58°	49.8	61.0	75.4	108.7	134.0	40.1	27.2	53.5	66.6
59°	47.4	57.2	69.4	99.0	125.1	38.0	27.1	54.2	66.9
60°	45.5	54.0	64.4	89.9	115.8	36.3	26.7	54.4	67.1
61°	43.8	51.4	60.5	82.2	106.9	34.3	26.6	54.8	67.1
62°	42.3	49.1	57.2	75.4	97.9	32.6	26.2	54.7	66.9
63°	40.9	47.2	54.5	69.9	89.6	30.9	26.0	54.8	66.4
64°	39.6	45.3	52.0	65.1	81.9	29.5	25.6	54.4	65.7
65°	38.4	43.6	49.9	61.2	75.2	28.0	25.4	54.1	64.8
66°	37.3	42.0	47.9	57.7	69.2	26.8	24.9	53.4	63.9
67°	36.1	40.5	46.1	54.8	64.1	25.6	24.7	52.9	62.7
68°	35.0	39.0	44.3	52.2	59.6	24.7	24.1	51.9	61.4
69°	33.9	37.6	42.7	49.8	55.8	23.6	23.8	51.2	60.1
70°	32.8	36.2	41.1	47.7	52.4	22.8	23.2	49.9	58.5
71°	31.5	34.8	39.6	45.8	49.5	21.8	22.9	48.9	56.9
72°	30.3	33.3	38.0	43.9	46.8	21.1	22.4	47.5	55.2
73°	29.1	31.8	36.5	42.4	44.5	20.3	22.0	46.4	53.5
74°	27.9	30.3	34.9	40.9	42.4	19.7	21.3	44.9	51.8
75°	26.6	28.8	33.3	39.6	38.8	19.1	20.9	43.8	50.2
76°	25.4	27.2	31.6	38.2	29.6	18.7	20.2	42.4	48.7
77°	24.2	25.8	30.0	37.1	20.5	18.3	19.8	41.4	47.4
78°	23.1	24.4	28.3	36.0	13.9	18.1	19.2	40.4	46.4
79°	22.1	23.1	26.7	35.7	10.8	17.6	18.9	39.9	45.6
80°	21.2	21.9	25.1	33.8	8.7	16.9	18.4	39.2	44.9
81°	20.4	20.8	23.6	30.9	7.6	16.1	18.1	38.5	43.6
82°	19.6	19.9	22.2	28.2	6.5	15.3	17.7	36.9	41.9
83°	18.9	18.9	20.8	26.0	5.8	14.5	17.2	35.7	40.5
84°	18.2	18.1	19.5	23.9	5.0	13.9	16.5	34.2	38.8
85°	17.5	17.3	18.3	22.2	4.6	13.2	16.1	32.9	37.1
86°	16.9	16.6	17.2	20.7	3.9	12.7	15.4	31.3	35.5
87°	16.0	15.7	16.0	19.1	3.5	12.1	14.9	29.9	33.9
88°	15.0	14.8	15.0	17.5	2.7	11.4	14.2	28.4	32.2
89°	14.0	13.8	13.6	15.4	2.1	10.7	13.7	27.0	30.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7

(END OF REPORT)