

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: P972456

Luminaire Tested: MFO-06W-935-ASYM-X-1F-UNV-STD

Issue Date: 2/27/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P972456  
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-935-ASYM-X-1F-UNV-STD  
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH ASYMMETRIC OPTICS  
6 WATTS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

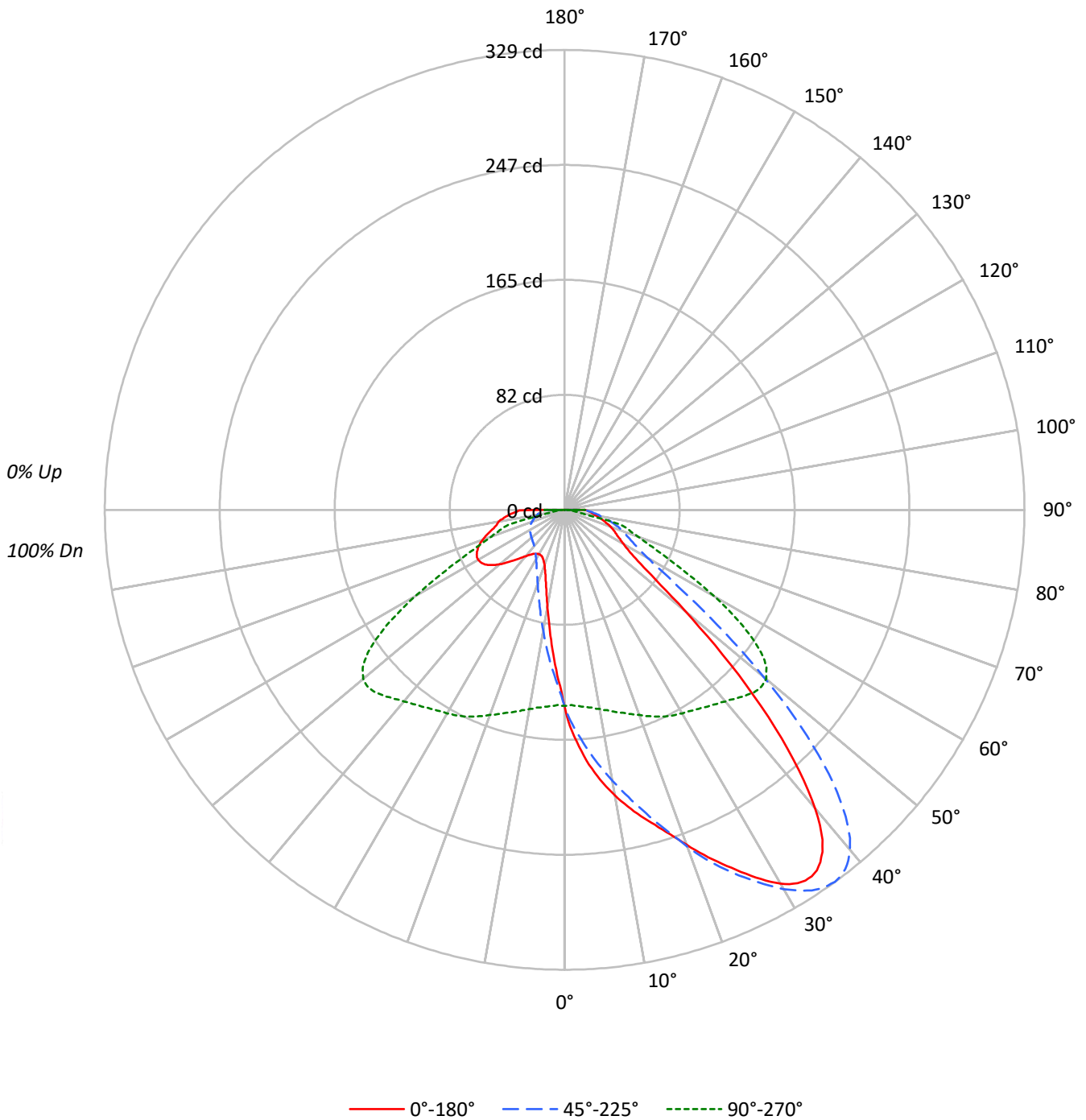
Lumens per Lamp: N/A  
Luminaire Lumens: 550.4 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 1.91 / 1.61  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 0.08' x H: 0.03')  
CIE Type: Direct  
  
Input Watts (W): 5.7  
Input Voltage (V): 120  
Input Current (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			100	
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82			82	
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69			69	
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58			58	
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49			49	
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			42	
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37			37	
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32			32	
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			29	
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25			25	
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23			23	

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

	0°	45°	90°	135°	180°
0°	19895	19895	19895	19895	19895
5°	24739	23494	20086	15464	13779
10°	27879	26870	20749	11988	9481
15°	30406	30439	21881	9442	6901
20°	33431	34712	23335	7625	5508
25°	37053	39159	25168	6426	4917
30°	40787	43387	27068	5652	4834
35°	42198	46544	29254	5189	5149
40°	38312	46470	32322	4945	5942
45°	28137	40740	36283	4891	7236
50°	16616	29811	40063	4950	8935
55°	9920	18606	39602	5073	10602
60°	7972	12543	33169	5219	11760
65°	7227	10606	25201	5393	12223
70°	6743	9704	21273	5472	12036
75°	6063	8905	20263	5569	11441
80°	5457	7786	6446	5716	11569
85°	5271	6853	5860	6009	11134

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 90°  
 Luminance: 65403 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.5	2.4
10°-20°	41.9	7.6
20°-30°	76.5	13.9
30°-40°	111.5	20.3
40°-50°	116.0	21.1
50°-60°	80.6	14.7
60°-70°	52.1	9.5
70°-80°	36.2	6.6
80°-90°	22.1	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°	131.8	23.9
0°-40°	243.3	44.2
0°-60°	440.0	79.9
0°-90°	550.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	180	169	141	112	100	18
15°	230	225	150	70	52	66
25°	283	287	163	47	38	132
35°	315	328	172	37	38	193
45°	199	267	186	32	51	151
55°	64	109	167	30	68	62
65°	41	53	80	27	69	41
75°	28	36	41	22	53	30
85°	19	20	5	17	40	20
90°	15	15	15	15	15	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	140.1	140.1	140.1	140.1	140.1	140.1	140.1	140.1	140.1
1°	151.2	150.0	147.5	144.0	140.1	136.2	133.0	130.9	130.2
2°	158.7	157.1	153.1	147.0	139.8	132.8	127.0	123.2	122.2
3°	166.2	164.0	158.4	150.2	140.4	130.4	121.9	116.5	114.7
4°	173.1	170.7	164.0	153.6	140.4	127.1	116.2	109.3	107.2
5°	179.9	177.2	169.4	157.0	141.3	124.8	111.5	103.0	100.2
6°	186.1	183.4	175.1	160.6	141.5	121.8	106.2	96.3	93.4
7°	192.1	189.2	180.5	164.4	142.5	119.7	101.6	90.5	87.1
8°	197.5	194.8	185.9	168.2	142.9	116.8	96.6	84.7	81.2
9°	202.7	200.2	191.3	172.2	144.0	114.7	92.3	79.6	75.7
10°	207.6	205.4	196.8	176.3	144.7	111.9	87.8	74.6	70.6
11°	212.4	210.4	202.1	180.6	145.9	109.8	83.8	70.2	66.2
12°	216.8	215.4	207.7	185.1	146.6	107.1	79.8	66.0	62.1
13°	221.4	220.4	213.1	189.6	147.9	105.0	76.3	62.4	58.4
14°	225.8	225.4	218.8	194.4	148.8	102.4	72.8	58.9	55.1
15°	230.0	230.4	224.7	199.1	150.1	100.5	69.7	55.9	52.2
16°	234.5	235.4	230.6	204.2	151.1	98.0	66.5	53.0	49.5
17°	239.2	240.8	236.6	209.4	152.4	96.1	63.8	50.6	47.3
18°	244.1	246.2	243.0	214.8	153.6	93.8	61.1	48.3	45.2
19°	249.4	252.2	249.4	220.2	155.0	91.9	58.6	46.3	43.5
20°	254.9	258.5	256.3	225.9	156.2	89.8	56.3	44.5	42.0
21°	260.9	264.9	263.1	231.6	157.8	87.9	54.3	43.0	40.8
22°	266.3	270.9	269.5	237.6	159.1	86.0	52.2	41.6	39.7
23°	271.8	276.5	275.5	243.0	160.5	84.3	50.4	40.5	38.8
24°	277.2	282.1	281.3	248.2	161.9	82.5	48.7	39.4	38.1
25°	282.6	287.9	287.0	252.9	163.0	81.1	47.1	38.6	37.5
26°	288.1	293.5	292.4	257.8	164.4	79.5	45.6	37.8	37.1
27°	293.9	299.2	297.8	261.7	165.3	78.0	44.3	37.2	36.8
28°	299.0	305.3	303.2	265.9	166.4	76.5	43.0	36.7	36.6
29°	304.4	311.2	308.2	269.6	167.0	75.0	41.8	36.4	36.6
30°	308.8	316.6	313.2	273.4	168.1	73.7	40.8	36.1	36.6
31°	312.4	321.4	317.4	276.5	168.7	72.3	39.8	35.9	36.8
32°	314.8	325.4	321.3	279.5	169.7	71.0	38.9	35.8	37.0
33°	316.3	328.3	324.6	281.9	170.5	69.8	38.0	35.8	37.4
34°	316.2	330.3	326.8	284.4	171.7	68.7	37.3	35.9	37.9
35°	314.7	331.1	328.3	285.6	172.5	67.5	36.6	36.1	38.4
36°	311.5	330.2	328.9	286.9	173.9	66.6	35.9	36.3	39.2
37°	306.4	328.3	328.3	286.9	174.7	65.5	35.3	36.7	40.0
38°	299.6	324.6	326.0	286.7	176.3	64.7	34.8	37.1	41.0
39°	290.2	319.2	322.7	285.3	177.3	63.7	34.3	37.6	42.0
40°	279.2	311.9	317.6	283.4	179.0	63.0	33.8	38.2	43.3
41°	265.4	303.0	311.1	280.1	180.2	62.1	33.4	38.9	44.6
42°	250.7	291.8	302.6	276.4	182.1	61.6	33.1	39.6	46.0
43°	234.0	279.4	292.4	271.3	183.5	60.6	32.7	40.5	47.6
44°	217.2	264.8	280.7	265.5	185.3	60.2	32.4	41.4	49.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	198.7	249.4	267.4	258.4	186.4	59.3	32.1	42.4	51.1
46°	180.9	232.1	252.6	250.5	188.1	58.8	31.8	43.4	52.9
47°	162.4	214.3	237.0	241.6	188.8	57.9	31.6	44.6	54.8
48°	145.0	195.1	220.1	232.0	189.4	57.3	31.3	45.8	56.8
49°	127.8	176.0	203.4	221.7	188.8	56.2	31.1	47.1	58.6
50°	112.7	156.6	186.1	211.0	188.2	55.5	30.9	48.3	60.6
51°	98.7	138.6	169.1	199.7	185.8	54.2	30.7	49.6	62.3
52°	87.4	121.6	152.4	187.8	183.3	53.2	30.4	50.8	64.1
53°	77.5	107.3	136.8	175.8	179.0	51.6	30.2	52.1	65.7
54°	70.0	94.7	122.0	163.3	173.9	50.3	30.0	53.2	67.1
55°	64.0	84.6	109.3	151.1	167.2	48.3	29.8	54.4	68.4
56°	59.5	76.4	97.8	138.7	160.0	46.6	29.5	55.3	69.5
57°	55.8	70.1	88.4	127.1	151.6	44.5	29.3	56.3	70.3
58°	53.0	64.9	80.2	115.6	142.6	42.7	29.0	56.9	70.8
59°	50.5	60.9	73.9	105.3	133.1	40.5	28.8	57.6	71.2
60°	48.4	57.5	68.5	95.7	123.2	38.6	28.5	57.9	71.4
61°	46.6	54.7	64.3	87.5	113.7	36.5	28.3	58.3	71.4
62°	45.0	52.3	60.8	80.3	104.2	34.7	27.9	58.2	71.1
63°	43.5	50.2	57.9	74.4	95.4	32.9	27.7	58.3	70.6
64°	42.1	48.2	55.3	69.2	87.2	31.4	27.3	57.8	69.9
65°	40.8	46.4	53.1	65.1	80.1	29.8	27.0	57.6	69.0
66°	39.6	44.7	51.0	61.4	73.6	28.6	26.5	56.8	67.9
67°	38.4	43.1	49.1	58.3	68.2	27.3	26.3	56.3	66.8
68°	37.3	41.5	47.2	55.5	63.4	26.3	25.7	55.2	65.4
69°	36.0	40.0	45.5	53.0	59.4	25.1	25.3	54.4	63.9
70°	34.9	38.5	43.8	50.7	55.7	24.2	24.7	53.1	62.3
71°	33.6	37.0	42.2	48.7	52.6	23.2	24.4	52.1	60.6
72°	32.3	35.4	40.5	46.7	49.8	22.4	23.8	50.6	58.8
73°	30.9	33.9	38.9	45.1	47.4	21.6	23.4	49.4	56.9
74°	29.6	32.2	37.1	43.5	45.1	21.0	22.7	47.8	55.1
75°	28.3	30.6	35.5	42.1	41.3	20.3	22.2	46.6	53.4
76°	27.0	29.0	33.7	40.7	31.5	19.9	21.5	45.1	51.8
77°	25.8	27.4	31.9	39.5	21.8	19.4	21.0	44.1	50.4
78°	24.6	26.0	30.1	38.4	14.8	19.2	20.4	43.0	49.4
79°	23.5	24.6	28.4	38.0	11.5	18.7	20.1	42.5	48.6
80°	22.5	23.3	26.7	35.9	9.3	18.0	19.6	41.7	47.7
81°	21.7	22.2	25.1	32.9	8.1	17.2	19.3	40.9	46.4
82°	20.8	21.1	23.6	30.0	6.9	16.3	18.8	39.3	44.6
83°	20.1	20.1	22.2	27.7	6.2	15.4	18.3	38.0	43.0
84°	19.4	19.3	20.8	25.5	5.4	14.8	17.6	36.4	41.3
85°	18.7	18.4	19.5	23.7	4.9	14.1	17.1	35.0	39.5
86°	18.0	17.7	18.3	22.0	4.2	13.5	16.3	33.3	37.7
87°	17.0	16.7	17.1	20.3	3.7	12.8	15.8	31.9	36.0
88°	16.0	15.8	15.9	18.6	2.9	12.2	15.1	30.3	34.3
89°	14.9	14.6	14.4	16.4	2.3	11.4	14.6	28.8	32.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6

(END OF REPORT)