

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: P958923

Luminaire Tested: MFO-06W-927-20-X-1F-UNV-STD

Issue Date: 2/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P958923  
SCALED TEST REPORT  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: iO LED  
Catalog Number: MFO-06W-927-20-X-1F-UNV-STD  
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 20 DEGREE OPTICS. INPUT WATTAGE IN IES FILE REPRESENTS CONSUMPTION IN A RUN, INDIVIDUAL FIXTURE MAY VARY.  
6 WATTS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

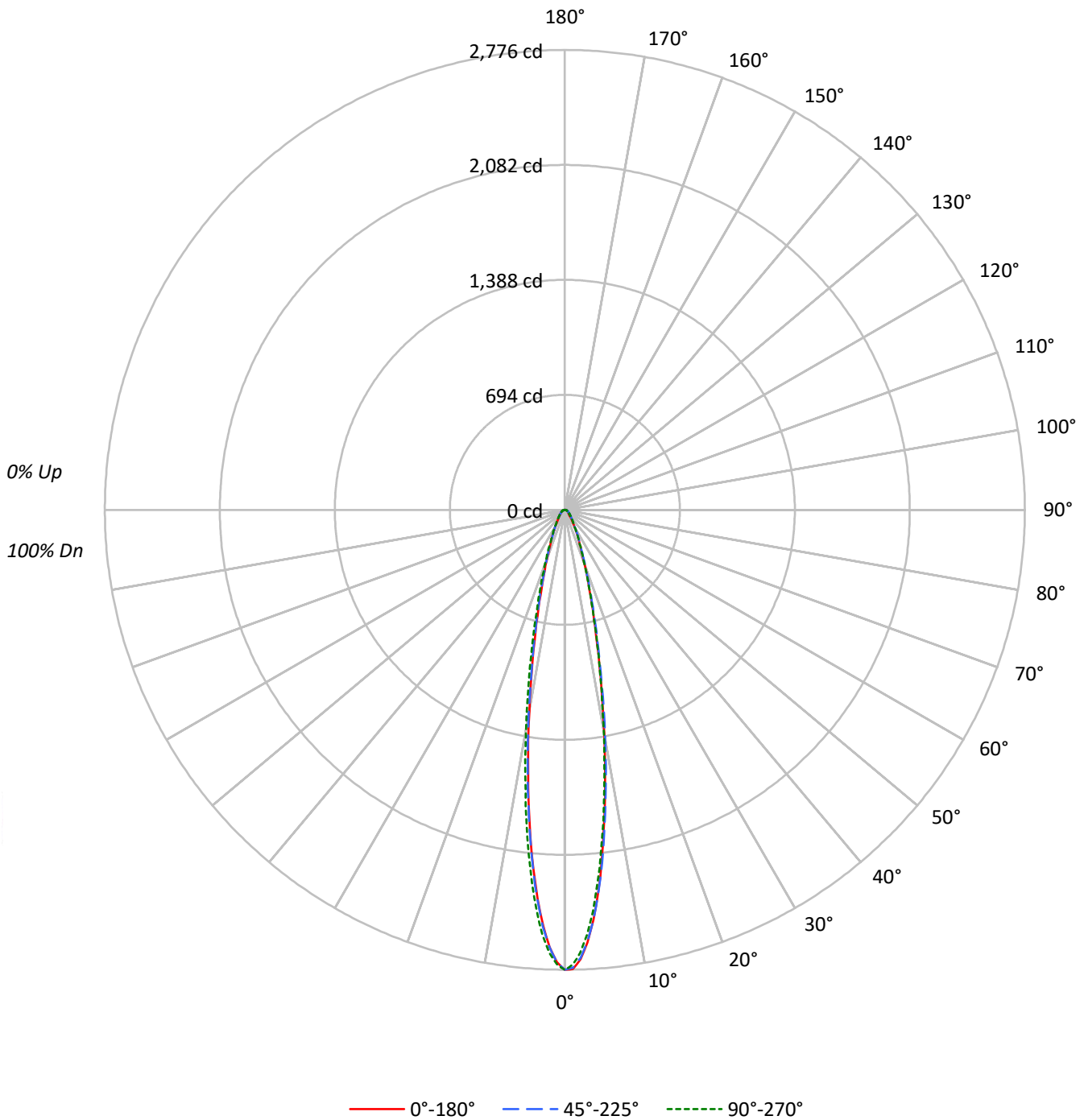
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 609.9 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.33 / 0.36  
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 1' 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



TEST NUMBER: P958923  
CATALOG NUMBER: MFO-06W-927-20-X-1F-UNV-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P958923

CATALOG NUMBER: MFO-06W-927-20-X-1F-UNV-STD

**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	100	100	
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87	87	87	87	
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82	82	82	82	
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78	78	78	78	
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74	74	74	74	
6	91	83	78	74	90	82	77	74	81	76	73	80	76	73	78	75	72	71	71	71	71	
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68	
8	85	76	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65	
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	63	63	63	63	
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61	61	61	61	

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

	0°	45°	90°	135°	180°
0°	394218	394218	394218	394218	394218
5°	329154	322252	311568	303405	309153
10°	195273	190713	180972	170929	176833
15°	98938	95625	90213	84761	89462
20°	51556	48459	45537	43448	46984
25°	29815	27098	25345	24573	27298
30°	18437	17039	15837	15612	17842
35°	12058	11796	10915	10931	12838
40°	8342	8750	8069	8194	9913
45°	6618	6871	6259	6506	8117
50°	6216	5639	5057	5382	7025
55°	5992	4801	4232	4630	6371
60°	5735	4212	3607	4083	6004
65°	5537	3735	3065	3655	5758
70°	5385	3301	2512	3235	5576
75°	5544	2885	1928	2835	5593
80°	6100	2508	1334	2508	6100
85°	8491	2073	789	2355	8611

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 21950 cd/sqm

TEST NUMBER: P958923

CATALOG NUMBER: MFO-06W-927-20-X-1F-UNV-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.0	30.2
10°-20°	190.0	31.2
20°-30°	90.6	14.9
30°-40°	50.9	8.3
40°-50°	33.8	5.5
50°-60°	24.7	4.0
60°-70°	17.9	2.9
70°-80°	11.4	1.9
80°-90°	6.6	1.1
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°	464.6	76.2
0°-40°	515.5	84.5
0°-60°	573.9	94.1
0°-90°	609.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2776	2776	2776	2776	2776	
5°	2316	2324	2266	2188	2175	189
15°	679	706	682	626	614	194
25°	193	199	193	180	177	92
35°	71	83	81	77	76	46
45°	34	45	44	43	42	27
55°	25	28	27	27	27	23
65°	18	19	17	18	18	17
75°	11	12	9	11	11	12
85°	7	6	3	7	7	8
90°	5	5	5	5	5	



TEST NUMBER: P958923

CATALOG NUMBER: MFO-06W-927-20-X-1F-UNV-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2776.1	2776.1	2776.1	2776.1	2776.1	2776.1	2776.1	2776.1	2776.1
1°	2771.8	2769.0	2763.3	2754.7	2744.9	2736.0	2730.3	2728.4	2730.4
2°	2714.6	2713.7	2706.6	2692.9	2674.9	2657.2	2643.7	2637.9	2640.2
3°	2615.4	2617.6	2610.6	2593.0	2567.8	2540.8	2519.5	2509.6	2512.8
4°	2479.7	2485.9	2480.6	2460.5	2428.8	2393.4	2364.6	2350.7	2354.4
5°	2315.5	2325.8	2323.6	2302.3	2265.7	2223.3	2187.7	2170.2	2174.8
6°	2131.6	2146.1	2146.9	2126.0	2086.0	2037.8	1997.2	1976.8	1981.9
7°	1936.6	1955.0	1959.2	1939.4	1898.2	1847.0	1802.2	1779.8	1784.9
8°	1738.7	1760.1	1767.2	1749.3	1708.4	1656.0	1609.3	1585.6	1590.7
9°	1545.5	1568.6	1578.1	1562.4	1523.5	1471.7	1424.3	1400.4	1405.6
10°	1361.8	1385.7	1396.8	1383.5	1347.6	1297.8	1251.9	1228.5	1233.2
11°	1192.1	1215.7	1228.0	1217.1	1184.2	1137.9	1094.4	1072.2	1076.6
12°	1038.5	1060.7	1073.2	1064.3	1035.1	993.1	953.2	932.7	936.6
13°	902.2	923.1	935.2	927.8	902.3	864.7	828.9	810.3	813.6
14°	782.6	801.6	812.9	806.8	784.9	751.8	720.0	703.5	706.4
15°	678.7	695.6	705.9	700.9	682.4	653.6	625.7	611.1	613.7
16°	589.5	604.4	613.5	609.2	593.5	568.7	544.5	531.5	533.9
17°	513.2	526.2	534.0	530.3	517.1	495.8	474.9	463.6	465.7
18°	447.9	459.1	465.7	462.5	451.3	433.1	415.4	405.3	407.1
19°	392.5	402.3	407.6	404.6	395.2	379.7	364.5	355.7	357.3
20°	345.1	353.6	357.8	355.1	347.2	333.9	320.8	313.2	314.5
21°	304.6	312.1	315.3	313.0	306.3	294.8	283.5	276.9	278.0
22°	270.1	276.7	279.0	276.9	271.2	261.2	251.3	245.8	246.6
23°	240.4	246.2	247.9	246.2	241.2	232.4	223.9	219.3	219.7
24°	215.0	220.1	221.3	219.8	215.3	207.7	200.2	196.4	196.6
25°	193.1	197.8	198.6	197.1	193.3	186.6	180.1	176.9	176.8
26°	173.9	178.5	178.8	177.5	174.2	168.3	162.6	159.9	159.6
27°	157.3	161.9	161.9	160.6	157.7	152.5	147.5	145.1	144.8
28°	142.3	147.4	147.0	145.9	143.4	138.8	134.4	132.2	132.0
29°	127.7	134.7	134.2	133.0	130.9	126.8	122.8	120.9	120.7
30°	114.5	123.5	123.0	121.8	119.9	116.3	112.7	110.9	110.8
31°	103.2	113.7	113.1	112.0	110.3	107.0	103.7	102.1	102.0
32°	93.1	104.9	104.3	103.3	101.7	98.8	95.9	94.3	94.3
33°	85.2	97.2	96.5	95.7	94.2	91.5	88.9	87.5	87.4
34°	78.0	90.2	89.5	88.8	87.5	85.0	82.7	81.4	81.2
35°	71.1	83.9	83.2	82.6	81.4	79.2	77.1	75.8	75.7
36°	64.6	78.2	77.6	77.1	76.0	74.0	72.0	70.9	70.7
37°	59.4	73.1	72.5	72.0	71.1	69.2	67.5	66.3	66.2
38°	54.3	68.4	67.9	67.4	66.7	64.9	63.3	62.2	62.1
39°	49.9	64.2	63.7	63.3	62.5	61.0	59.5	58.4	58.3
40°	46.2	60.3	59.8	59.4	58.8	57.4	56.0	55.0	54.9
41°	43.2	56.8	56.4	56.0	55.3	54.1	52.8	51.9	51.8
42°	40.5	53.6	53.2	52.9	52.2	51.0	49.9	49.0	48.9
43°	37.8	50.6	50.3	50.1	49.3	48.3	47.3	46.3	46.3
44°	35.6	47.9	47.6	47.4	46.6	45.7	44.9	43.9	43.9



TEST NUMBER: P958923

CATALOG NUMBER: MFO-06W-927-20-X-1F-UNV-STD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	34.0	45.3	45.1	45.0	44.2	43.4	42.7	41.7	41.7
46°	32.6	43.0	42.8	42.7	41.9	41.2	40.6	39.6	39.7
47°	31.2	40.8	40.7	40.6	39.8	39.2	38.6	37.7	37.8
48°	30.0	38.7	38.7	38.6	37.8	37.4	36.9	35.9	36.0
49°	29.7	36.9	36.9	36.8	36.0	35.6	35.2	34.3	34.4
50°	29.2	35.1	35.2	35.0	34.3	34.0	33.6	32.8	33.0
51°	28.5	33.5	33.6	33.5	32.7	32.5	32.2	31.4	31.6
52°	27.6	32.0	32.2	32.0	31.2	31.1	30.8	30.1	30.3
53°	26.8	30.6	30.8	30.6	29.8	29.8	29.5	28.9	29.1
54°	26.1	29.3	29.5	29.4	28.5	28.6	28.4	27.7	28.0
55°	25.3	28.1	28.2	28.1	27.3	27.4	27.2	26.7	26.9
56°	24.4	26.9	27.1	27.0	26.1	26.3	26.1	25.7	25.9
57°	23.7	25.8	26.0	25.9	24.9	25.3	25.1	24.7	24.9
58°	22.8	24.8	24.9	24.8	23.9	24.3	24.2	23.8	24.0
59°	22.0	23.8	24.0	23.8	22.9	23.3	23.2	22.9	23.1
60°	21.3	22.9	23.0	22.8	21.9	22.4	22.3	22.1	22.3
61°	20.5	21.9	22.1	21.9	20.9	21.5	21.5	21.3	21.4
62°	19.8	21.0	21.3	21.0	20.0	20.6	20.7	20.5	20.6
63°	19.0	20.0	20.4	20.1	19.1	19.7	19.9	19.8	19.8
64°	18.3	18.8	19.6	19.2	18.2	18.9	19.1	19.0	19.0
65°	17.6	17.5	18.7	18.3	17.3	18.0	18.3	18.3	18.3
66°	16.9	16.1	17.9	17.5	16.4	17.2	17.5	17.6	17.5
67°	16.2	14.9	17.2	16.6	15.6	16.4	16.8	16.8	16.8
68°	15.5	14.0	16.4	15.8	14.7	15.6	16.0	16.1	16.0
69°	14.8	13.2	15.6	15.0	13.9	14.8	15.3	15.4	15.3
70°	14.1	12.5	14.9	14.2	13.0	14.0	14.6	14.7	14.6
71°	13.5	11.9	14.2	13.4	12.2	13.2	13.9	14.0	13.9
72°	12.9	11.5	13.5	12.6	11.4	12.5	13.2	13.4	13.2
73°	12.4	11.3	12.8	11.9	10.6	11.8	12.5	12.7	12.6
74°	11.9	11.0	12.1	11.2	9.8	11.1	11.9	12.0	12.0
75°	11.3	10.5	11.5	10.5	9.0	10.4	11.3	11.4	11.4
76°	10.8	10.1	10.8	9.8	8.2	9.8	10.6	10.8	10.8
77°	10.2	9.8	10.2	9.2	7.5	9.2	10.1	10.3	10.2
78°	9.7	9.4	9.7	8.6	6.8	8.6	9.5	9.8	9.7
79°	9.2	9.0	9.2	8.1	6.1	8.1	9.0	9.3	9.2
80°	8.8	8.5	8.6	7.6	5.5	7.6	8.6	8.8	8.8
81°	8.4	8.1	7.9	7.2	4.9	7.1	8.1	8.4	8.4
82°	8.0	7.8	6.9	6.7	4.3	6.6	7.7	8.0	8.0
83°	7.6	7.4	6.2	6.2	3.8	6.2	7.3	7.6	7.7
84°	7.3	7.2	6.0	5.8	3.3	5.8	7.0	7.4	7.4
85°	7.1	7.0	5.9	5.4	2.8	5.4	6.7	7.1	7.2
86°	6.9	6.7	5.8	5.1	2.4	5.0	6.4	6.8	6.9
87°	6.7	6.6	5.7	4.7	2.0	4.7	6.2	6.6	6.7
88°	6.5	6.4	5.6	4.5	1.6	4.4	6.0	6.5	6.5
89°	6.4	6.3	5.5	3.7	1.2	4.1	5.8	6.3	6.4



TEST NUMBER: P958923

CATALOG NUMBER: MFO-06W-927-20-X-1F-UNV-STD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)