

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: P958942

Luminaire Tested: MFO-06W-935-30-X-4F-UNV-STD

Issue Date: 2/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P958942  
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-935-30-X-4F-UNV-STD  
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 30 DEGREE OPTICS  
6 WATTS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

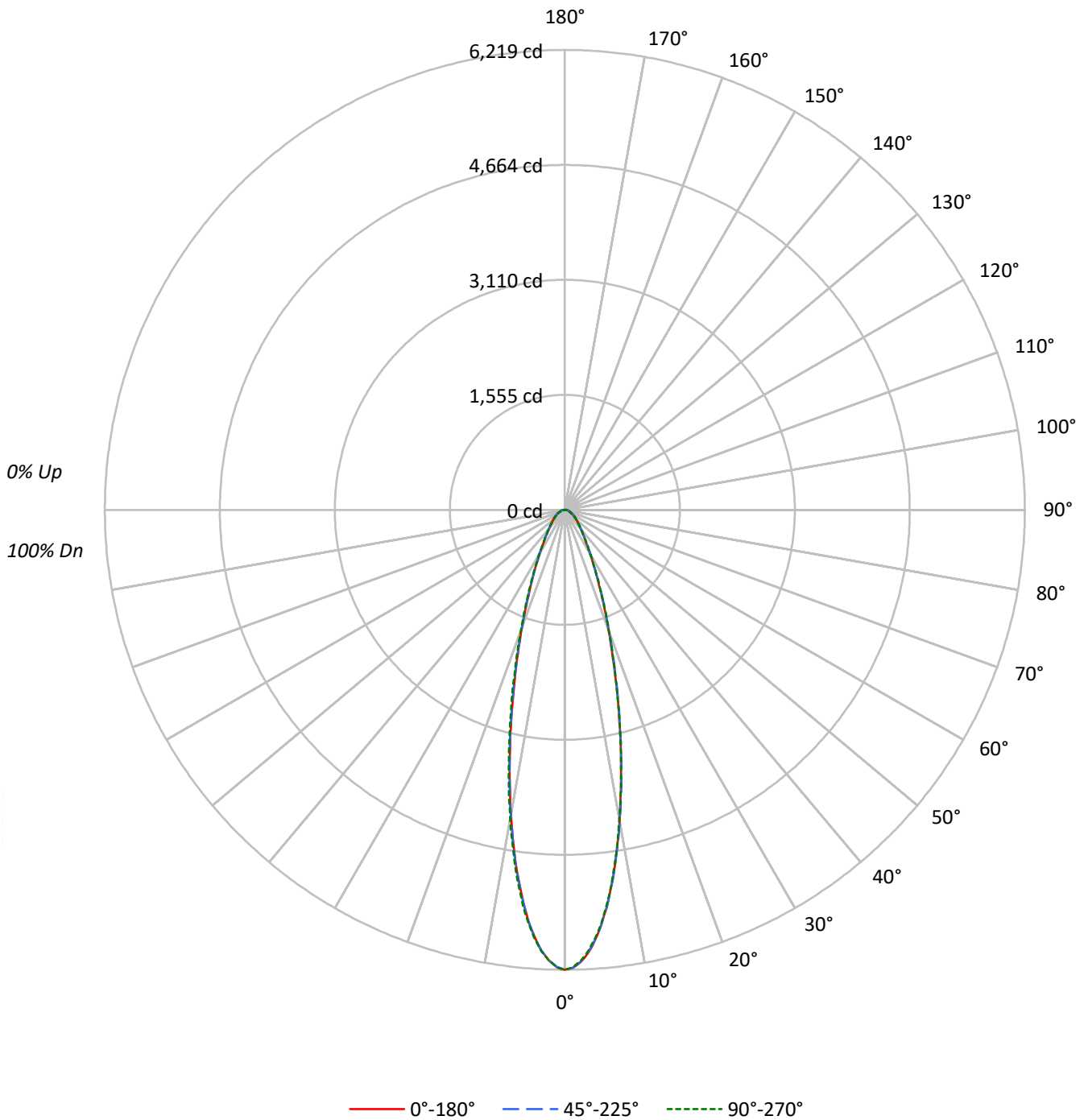
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2581.1 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.5  
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 4' x H: 0.03')  
CIE Type: Direct  
  
Input Watts (W): 22.8  
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: P958942  
CATALOG NUMBER: MFO-06W-935-30-X-4F-UNV-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P958942

CATALOG NUMBER: MFO-06W-935-30-X-4F-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				
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73				
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	69	68				
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64				
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61				
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58				
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55				
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52				

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

	0°	45°	90°	135°	180°
0°	220795	220795	220795	220795	220795
5°	200894	195759	193095	194120	199092
10°	153414	146292	142793	143670	150905
15°	103201	96333	93234	93943	100744
20°	65238	59570	57216	57891	63502
25°	41751	37021	35322	36083	40689
30°	27993	23947	22728	23462	27434
35°	19852	16513	15615	16312	19662
40°	15505	12451	11571	12351	15367
45°	12762	9892	9031	9823	12662
50°	11030	8209	7302	8119	10910
55°	9664	6963	6022	6867	9694
60°	7515	5906	4941	5813	8748
65°	6319	4980	3941	4909	7996
70°	6735	4185	3038	4134	7477
75°	7021	3544	2180	3506	7421
80°	8080	3162	1504	3132	8413
85°	12437	2401	895	2979	12736

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 98104 cd/sqm



TEST NUMBER: P958942

CATALOG NUMBER: MFO-06W-935-30-X-4F-UNV-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.7	19.0
10°-20°	772.9	29.9
20°-30°	500.2	19.4
30°-40°	295.1	11.4
40°-50°	199.6	7.7
50°-60°	142.5	5.5
60°-70°	93.9	3.6
70°-80°	54.9	2.1
80°-90°	31.4	1.2
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°	1763.8	68.3
0°-40°	2058.9	79.8
0°-60°	2400.9	93.0
0°-90°	2581.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6219	6219	6219	6219	6219	
5°	5641	5638	5617	5591	5591	493
15°	2814	2833	2821	2762	2747	777
25°	1070	1078	1078	1051	1043	502
35°	461	461	466	456	456	296
45°	256	256	255	255	254	200
55°	158	161	155	159	158	140
65°	76	98	89	96	97	79
75°	53	55	41	54	56	56
85°	33	26	13	32	34	36
90°	22	22	22	22	22	



TEST NUMBER: P958942

CATALOG NUMBER: MFO-06W-935-30-X-4F-UNV-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6219.4	6219.4	6219.4	6219.4	6219.4	6219.4	6219.4	6219.4	6219.4
1°	6194.6	6193.2	6190.6	6187.1	6185.1	6183.2	6183.2	6183.0	6184.8
2°	6122.7	6119.8	6115.3	6109.4	6103.6	6099.7	6097.9	6099.0	6101.9
3°	6003.9	6003.3	5996.6	5989.0	5980.3	5972.9	5970.6	5969.8	5974.5
4°	5842.9	5841.1	5836.7	5827.2	5816.1	5806.7	5798.8	5797.7	5802.1
5°	5641.2	5641.6	5638.0	5627.6	5616.7	5602.8	5590.8	5586.9	5590.6
6°	5405.1	5407.1	5406.1	5397.9	5385.5	5368.0	5351.2	5342.9	5347.4
7°	5141.9	5145.6	5147.8	5140.9	5127.3	5105.5	5085.0	5074.3	5078.3
8°	4858.0	4863.3	4867.2	4862.7	4847.2	4823.4	4799.0	4787.0	4791.5
9°	4563.1	4568.8	4574.6	4571.4	4554.5	4528.6	4501.6	4488.3	4494.5
10°	4261.7	4267.7	4273.8	4270.4	4253.2	4226.8	4197.2	4184.0	4192.0
11°	3959.8	3965.6	3971.9	3968.9	3951.2	3923.9	3893.0	3880.5	3888.9
12°	3659.6	3665.8	3672.8	3670.6	3652.2	3625.0	3594.0	3580.1	3588.8
13°	3366.7	3373.7	3380.9	3380.1	3363.1	3335.4	3304.7	3289.6	3296.3
14°	3083.1	3091.4	3099.7	3100.3	3084.8	3057.0	3025.2	3010.1	3013.1
15°	2813.9	2822.8	2832.7	2835.7	2821.0	2793.1	2762.4	2745.2	2746.9
16°	2559.4	2568.5	2580.8	2585.0	2571.5	2543.8	2512.9	2495.9	2496.1
17°	2324.6	2332.4	2346.8	2352.0	2339.5	2312.7	2282.9	2265.6	2265.2
18°	2108.0	2115.2	2129.3	2136.2	2124.0	2099.1	2070.7	2054.3	2053.6
19°	1910.6	1917.4	1930.5	1937.4	1925.4	1902.8	1876.5	1861.0	1860.3
20°	1731.8	1738.1	1749.7	1756.8	1745.0	1724.0	1700.4	1685.6	1685.7
21°	1570.7	1575.7	1585.8	1592.8	1582.0	1562.6	1541.0	1528.1	1528.2
22°	1424.8	1429.3	1438.1	1444.8	1435.1	1417.5	1397.8	1385.7	1386.3
23°	1293.5	1297.4	1304.8	1311.8	1303.1	1286.9	1268.9	1258.4	1258.9
24°	1175.5	1178.9	1185.2	1192.0	1184.5	1169.5	1153.6	1144.0	1145.0
25°	1069.8	1072.4	1077.9	1084.5	1077.6	1064.7	1050.6	1041.7	1042.6
26°	975.1	977.0	981.8	988.2	982.1	969.8	957.0	950.1	951.1
27°	890.3	891.0	895.7	902.0	896.4	885.4	873.9	868.4	869.7
28°	814.9	813.8	817.8	824.2	818.9	808.8	798.6	794.8	796.5
29°	747.7	745.1	748.6	754.7	750.3	741.0	732.2	729.1	731.3
30°	686.0	683.3	685.8	691.8	688.3	679.8	671.9	669.7	672.3
31°	629.9	627.6	629.6	635.6	633.0	625.4	617.9	616.4	618.4
32°	579.7	577.9	579.9	585.3	583.7	576.9	570.2	568.6	570.1
33°	534.9	533.5	535.8	540.5	539.9	533.5	527.4	526.0	527.3
34°	495.3	494.4	496.2	500.9	500.8	495.2	489.7	488.3	489.5
35°	460.6	460.2	461.4	466.0	465.8	460.9	455.8	454.6	456.2
36°	430.0	429.5	430.5	435.0	434.9	430.3	426.2	424.7	426.3
37°	403.2	402.3	403.3	407.1	406.7	403.2	399.5	398.1	399.8
38°	379.3	377.7	379.1	382.0	381.5	378.8	375.7	374.2	376.0
39°	357.4	355.8	356.9	359.2	358.4	356.7	354.1	352.9	354.1
40°	336.8	335.5	336.6	338.4	337.3	336.1	333.9	333.1	333.8
41°	318.0	316.9	318.0	319.4	318.2	317.1	315.5	314.9	315.4
42°	300.5	299.8	300.5	301.6	300.5	299.5	298.7	297.7	298.1
43°	284.4	283.9	284.5	285.4	284.4	283.6	282.8	281.9	282.2
44°	269.7	269.2	269.9	270.2	269.2	268.6	268.2	267.2	267.5



TEST NUMBER: P958942

CATALOG NUMBER: MFO-06W-935-30-X-4F-UNV-STD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	256.2	255.8	256.4	256.3	255.1	254.6	254.6	253.7	254.2
46°	243.9	243.6	244.0	243.5	242.0	241.8	242.3	241.4	241.8
47°	232.3	232.2	232.7	231.7	230.1	230.0	230.7	230.0	230.3
48°	221.6	221.3	221.8	220.6	218.6	219.0	219.9	219.1	219.4
49°	211.5	211.1	211.7	210.2	208.0	208.7	209.6	209.0	209.1
50°	201.6	201.5	202.0	200.3	198.1	198.8	199.8	199.4	199.4
51°	192.2	192.2	192.8	191.2	188.7	189.8	190.6	190.1	190.3
52°	183.2	183.4	184.2	182.7	179.7	181.0	182.0	181.6	181.5
53°	174.6	175.4	176.1	174.6	171.3	173.0	173.8	173.6	173.5
54°	166.3	167.6	168.3	166.9	163.2	165.4	166.1	165.9	165.7
55°	157.9	160.2	160.9	159.6	155.4	157.9	158.7	158.4	158.4
56°	149.7	153.0	153.6	152.1	147.9	150.6	151.5	151.2	151.2
57°	139.7	146.0	146.5	145.0	140.6	143.5	144.6	144.1	144.2
58°	131.6	139.2	139.6	137.9	133.5	136.3	137.6	137.4	137.5
59°	117.7	132.6	133.0	131.1	126.6	129.5	131.1	131.1	131.1
60°	107.3	126.3	126.6	124.4	120.0	122.8	124.6	124.7	124.9
61°	98.3	120.3	120.5	117.8	113.4	116.3	118.5	118.9	118.9
62°	91.5	114.6	114.5	111.5	107.1	110.2	112.6	113.2	113.0
63°	84.9	109.0	108.7	105.5	101.0	104.3	106.9	107.6	107.4
64°	79.8	103.5	103.1	99.6	94.9	98.5	101.5	102.1	102.1
65°	76.5	98.2	97.6	94.0	89.0	93.1	96.2	97.0	96.8
66°	72.7	93.2	92.5	88.7	83.6	87.8	91.2	91.8	91.8
67°	68.9	88.2	87.6	83.4	78.1	82.7	86.4	87.0	87.0
68°	70.2	83.4	82.7	78.4	72.8	77.7	81.6	82.3	82.2
69°	68.0	78.8	78.1	73.6	67.8	73.0	77.1	77.8	77.7
70°	66.3	74.4	73.7	68.9	62.9	68.5	72.8	73.6	73.6
71°	63.8	69.7	69.4	64.7	58.1	64.1	68.7	69.6	69.4
72°	61.0	64.9	65.4	60.5	53.5	60.1	64.8	65.7	65.7
73°	58.1	59.6	61.6	56.6	48.8	56.3	61.0	62.0	62.1
74°	55.5	52.3	58.2	53.0	44.6	52.6	57.6	58.6	58.8
75°	52.7	46.9	54.9	49.6	40.7	49.2	54.3	55.4	55.7
76°	50.1	42.1	51.9	46.4	37.0	46.2	51.4	52.4	52.6
77°	47.5	39.3	49.1	43.6	33.6	43.4	48.6	49.6	49.9
78°	45.4	38.5	46.5	41.0	30.5	40.8	46.0	47.0	47.4
79°	43.4	39.2	44.1	38.7	27.5	38.5	43.7	44.7	45.1
80°	41.3	38.7	41.9	36.8	24.8	36.4	41.5	42.5	43.0
81°	39.5	38.0	40.0	34.8	22.2	34.4	39.5	40.4	40.9
82°	38.0	36.5	37.6	32.8	19.7	32.4	37.6	38.6	39.1
83°	36.3	35.2	33.5	30.7	17.3	30.3	35.8	36.8	37.4
84°	34.8	33.7	28.7	28.6	14.9	28.3	34.1	35.2	35.7
85°	33.3	32.4	26.2	26.7	12.7	26.3	32.5	33.6	34.1
86°	31.9	31.2	25.7	25.0	10.5	24.5	31.1	32.2	32.8
87°	30.6	30.0	25.6	23.1	8.5	22.8	29.7	30.8	31.4
88°	29.4	28.9	25.0	19.5	7.1	21.1	28.3	29.6	30.2
89°	28.0	27.8	24.8	16.1	5.6	19.6	27.0	28.5	29.0



TEST NUMBER: P958942

CATALOG NUMBER: MFO-06W-935-30-X-4F-UNV-STD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9

(END OF REPORT)