

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: P958949

Luminaire Tested: MFO-06W-940-30-X-1F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958949
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-940-30-X-1F-UNV-STD
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 30 DEGREE OPTICS. INPUT WATTAGE IN IES FILE REPRESENTS CONSUMPTION IN A RUN, INDIVIDUAL FIXTURE MAY VARY.
6 WATTS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

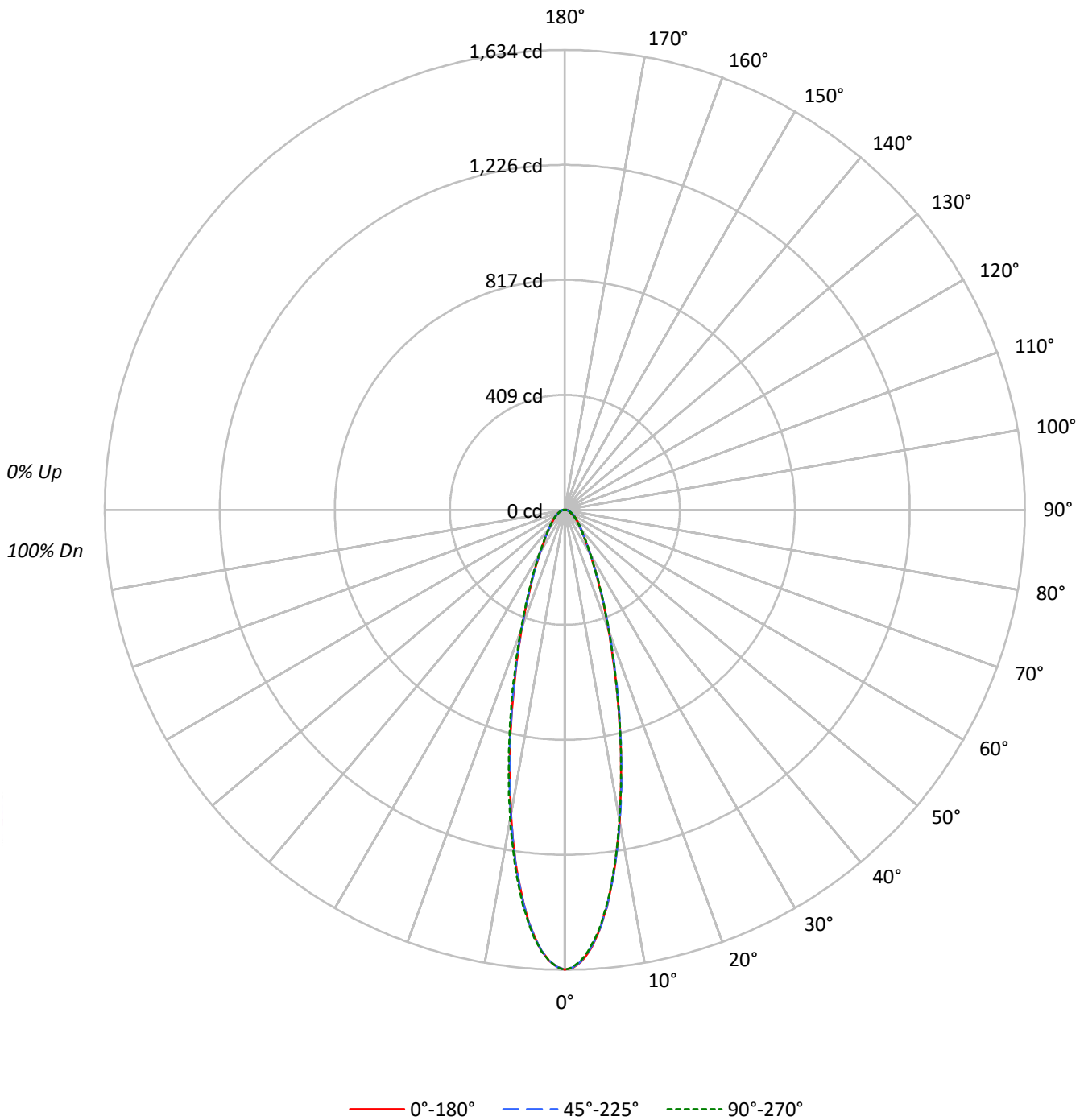
Lumens per Lamp: N/A
Luminaire Lumens: 678.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.5
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 1' x H: 0.03')
CIE Type: Direct

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: P958949
CATALOG NUMBER: MFO-06W-940-30-X-1F-UNV-STD

Luminous Intensity Polar Plot





TEST NUMBER: P958949

CATALOG NUMBER: MFO-06W-940-30-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
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84				84
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73				73
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	69	68				68
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64				64
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61				61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55				55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52				52

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	232021	232021	232021	232021	232021
5°	210670	205423	202917	203703	208779
10°	160543	153302	150058	150544	157919
15°	107757	100814	97973	98308	105191
20°	67959	62260	60121	60499	66167
25°	43402	38641	37119	37658	42291
30°	29017	24963	23880	24450	28437
35°	20520	17183	16413	16970	20317
40°	15980	12934	12158	12832	15836
45°	13100	10269	9487	10193	13003
50°	11282	8506	7667	8410	11155
55°	9829	7201	6324	7099	9853
60°	7592	6079	5188	5988	8831
65°	6324	5113	4145	5053	7991
70°	6646	4298	3188	4232	7371
75°	6820	3612	2293	3587	7163
80°	7486	3208	1576	3179	7833
85°	10405	2425	930	2987	10764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 25982 cd/sqm



TEST NUMBER: P958949

CATALOG NUMBER: MFO-06W-940-30-X-1F-UNV-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	19.0
10°-20°	203.0	29.9
20°-30°	131.4	19.4
30°-40°	77.5	11.4
40°-50°	52.4	7.7
50°-60°	37.4	5.5
60°-70°	24.7	3.6
70°-80°	14.4	2.1
80°-90°	8.3	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°	463.4	68.3
0°-40°	540.9	79.8
0°-60°	630.8	93.0
0°-90°	678.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1634	1634	1634	1634	1634	
5°	1482	1481	1476	1469	1469	130
15°	739	744	741	726	722	204
25°	281	283	283	276	274	132
35°	121	121	122	120	120	78
45°	67	67	67	67	67	53
55°	42	42	41	42	42	37
65°	20	26	23	25	25	21
75°	14	14	11	14	15	15
85°	9	7	3	8	9	10
90°	6	6	6	6	6	



TEST NUMBER: P958949

CATALOG NUMBER: MFO-06W-940-30-X-1F-UNV-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9
1°	1627.4	1627.0	1626.3	1625.4	1624.9	1624.4	1624.4	1624.3	1624.8
2°	1608.5	1607.7	1606.5	1605.0	1603.5	1602.4	1602.0	1602.3	1603.0
3°	1577.3	1577.1	1575.4	1573.4	1571.1	1569.1	1568.5	1568.3	1569.6
4°	1535.0	1534.5	1533.4	1530.9	1528.0	1525.5	1523.4	1523.1	1524.3
5°	1482.0	1482.1	1481.2	1478.4	1475.6	1471.9	1468.8	1467.7	1468.7
6°	1420.0	1420.5	1420.2	1418.1	1414.8	1410.2	1405.8	1403.6	1404.8
7°	1350.8	1351.8	1352.4	1350.6	1347.0	1341.3	1335.9	1333.1	1334.1
8°	1276.2	1277.6	1278.7	1277.5	1273.4	1267.1	1260.7	1257.6	1258.8
9°	1198.8	1200.3	1201.8	1200.9	1196.5	1189.7	1182.6	1179.1	1180.7
10°	1119.6	1121.2	1122.8	1121.9	1117.4	1110.4	1102.6	1099.2	1101.3
11°	1040.3	1041.8	1043.5	1042.7	1038.0	1030.9	1022.7	1019.4	1021.6
12°	961.4	963.1	964.9	964.3	959.5	952.3	944.2	940.5	942.8
13°	884.5	886.3	888.2	888.0	883.5	876.2	868.2	864.2	866.0
14°	810.0	812.1	814.3	814.5	810.4	803.1	794.8	790.8	791.6
15°	739.2	741.6	744.2	745.0	741.1	733.8	725.7	721.2	721.6
16°	672.4	674.8	678.0	679.1	675.6	668.3	660.2	655.7	655.8
17°	610.7	612.7	616.5	617.9	614.6	607.6	599.8	595.2	595.1
18°	553.8	555.7	559.4	561.2	558.0	551.5	544.0	539.7	539.5
19°	501.9	503.7	507.2	509.0	505.8	499.9	493.0	488.9	488.7
20°	454.9	456.6	459.7	461.5	458.4	452.9	446.7	442.8	442.9
21°	412.6	414.0	416.6	418.4	415.6	410.5	404.8	401.4	401.5
22°	374.3	375.5	377.8	379.6	377.0	372.4	367.2	364.0	364.2
23°	339.8	340.8	342.8	344.6	342.3	338.1	333.3	330.6	330.7
24°	308.8	309.7	311.4	313.2	311.2	307.2	303.1	300.5	300.8
25°	281.1	281.7	283.2	284.9	283.1	279.7	276.0	273.7	273.9
26°	256.2	256.7	257.9	259.6	258.0	254.8	251.4	249.6	249.9
27°	233.9	234.1	235.3	237.0	235.5	232.6	229.6	228.1	228.5
28°	214.1	213.8	214.9	216.5	215.1	212.5	209.8	208.8	209.3
29°	196.4	195.7	196.7	198.3	197.1	194.7	192.4	191.6	192.1
30°	180.2	179.5	180.2	181.7	180.8	178.6	176.5	175.9	176.6
31°	165.5	164.9	165.4	167.0	166.3	164.3	162.3	161.9	162.5
32°	152.3	151.8	152.4	153.8	153.3	151.6	149.8	149.4	149.8
33°	140.5	140.2	140.8	142.0	141.8	140.2	138.6	138.2	138.5
34°	130.1	129.9	130.4	131.6	131.6	130.1	128.6	128.3	128.6
35°	121.0	120.9	121.2	122.4	122.4	121.1	119.7	119.4	119.8
36°	113.0	112.8	113.1	114.3	114.2	113.1	112.0	111.6	112.0
37°	105.9	105.7	106.0	106.9	106.8	105.9	105.0	104.6	105.0
38°	99.6	99.2	99.6	100.4	100.2	99.5	98.7	98.3	98.8
39°	93.9	93.5	93.8	94.4	94.1	93.7	93.0	92.7	93.0
40°	88.5	88.1	88.4	88.9	88.6	88.3	87.7	87.5	87.7
41°	83.6	83.3	83.6	83.9	83.6	83.3	82.9	82.7	82.8
42°	78.9	78.8	78.9	79.2	78.9	78.7	78.5	78.2	78.3
43°	74.7	74.6	74.8	75.0	74.7	74.5	74.3	74.0	74.1
44°	70.8	70.7	70.9	71.0	70.7	70.6	70.5	70.2	70.3



TEST NUMBER: P958949

CATALOG NUMBER: MFO-06W-940-30-X-1F-UNV-STD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	67.3	67.2	67.4	67.3	67.0	66.9	66.9	66.7	66.8
46°	64.1	64.0	64.1	64.0	63.6	63.5	63.6	63.4	63.5
47°	61.0	61.0	61.1	60.9	60.4	60.4	60.6	60.4	60.5
48°	58.2	58.1	58.3	58.0	57.4	57.5	57.8	57.6	57.6
49°	55.6	55.5	55.6	55.2	54.7	54.8	55.1	54.9	54.9
50°	53.0	52.9	53.1	52.6	52.0	52.2	52.5	52.4	52.4
51°	50.5	50.5	50.7	50.2	49.6	49.9	50.1	50.0	50.0
52°	48.1	48.2	48.4	48.0	47.2	47.6	47.8	47.7	47.7
53°	45.9	46.1	46.3	45.9	45.0	45.4	45.7	45.6	45.6
54°	43.7	44.0	44.2	43.8	42.9	43.5	43.6	43.6	43.5
55°	41.5	42.1	42.3	41.9	40.8	41.5	41.7	41.6	41.6
56°	39.3	40.2	40.4	40.0	38.8	39.6	39.8	39.7	39.7
57°	36.7	38.4	38.5	38.1	36.9	37.7	38.0	37.9	37.9
58°	34.6	36.6	36.7	36.2	35.1	35.8	36.2	36.1	36.1
59°	30.9	34.8	34.9	34.4	33.2	34.0	34.4	34.4	34.4
60°	28.2	33.2	33.2	32.7	31.5	32.3	32.7	32.8	32.8
61°	25.8	31.6	31.6	30.9	29.8	30.6	31.1	31.2	31.2
62°	24.0	30.1	30.1	29.3	28.1	29.0	29.6	29.7	29.7
63°	22.3	28.6	28.5	27.7	26.5	27.4	28.1	28.3	28.2
64°	21.0	27.2	27.1	26.2	24.9	25.9	26.7	26.8	26.8
65°	20.1	25.8	25.6	24.7	23.4	24.4	25.3	25.5	25.4
66°	19.1	24.5	24.3	23.3	22.0	23.1	24.0	24.1	24.1
67°	18.1	23.2	23.0	21.9	20.5	21.7	22.7	22.8	22.8
68°	18.4	21.9	21.7	20.6	19.1	20.4	21.4	21.6	21.6
69°	17.9	20.7	20.5	19.3	17.8	19.2	20.3	20.4	20.4
70°	17.4	19.6	19.4	18.1	16.5	18.0	19.1	19.3	19.3
71°	16.8	18.3	18.2	17.0	15.3	16.8	18.0	18.3	18.2
72°	16.0	17.1	17.2	15.9	14.0	15.8	17.0	17.2	17.2
73°	15.3	15.6	16.2	14.9	12.8	14.8	16.0	16.3	16.3
74°	14.6	13.7	15.3	13.9	11.7	13.8	15.1	15.4	15.5
75°	13.9	12.3	14.4	13.0	10.7	12.9	14.3	14.6	14.6
76°	13.2	11.1	13.6	12.2	9.7	12.1	13.5	13.8	13.8
77°	12.5	10.3	12.9	11.5	8.8	11.4	12.8	13.0	13.1
78°	11.9	10.1	12.2	10.8	8.0	10.7	12.1	12.4	12.4
79°	11.4	10.3	11.6	10.2	7.2	10.1	11.5	11.7	11.8
80°	10.8	10.2	11.0	9.7	6.5	9.6	10.9	11.2	11.3
81°	10.4	10.0	10.5	9.2	5.8	9.0	10.4	10.6	10.8
82°	10.0	9.6	9.9	8.6	5.2	8.5	9.9	10.1	10.3
83°	9.5	9.2	8.8	8.1	4.5	8.0	9.4	9.7	9.8
84°	9.2	8.9	7.6	7.5	3.9	7.4	9.0	9.2	9.4
85°	8.7	8.5	6.9	7.0	3.3	6.9	8.5	8.8	9.0
86°	8.4	8.2	6.8	6.6	2.8	6.4	8.2	8.4	8.6
87°	8.0	7.9	6.7	6.1	2.2	6.0	7.8	8.1	8.3
88°	7.7	7.6	6.6	5.1	1.9	5.5	7.4	7.8	7.9
89°	7.4	7.3	6.5	4.2	1.5	5.2	7.1	7.5	7.6



TEST NUMBER: P958949

CATALOG NUMBER: MFO-06W-940-30-X-1F-UNV-STD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)