

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: P958933

Luminaire Tested: MFO-06W-930-30-X-1F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958933
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-930-30-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

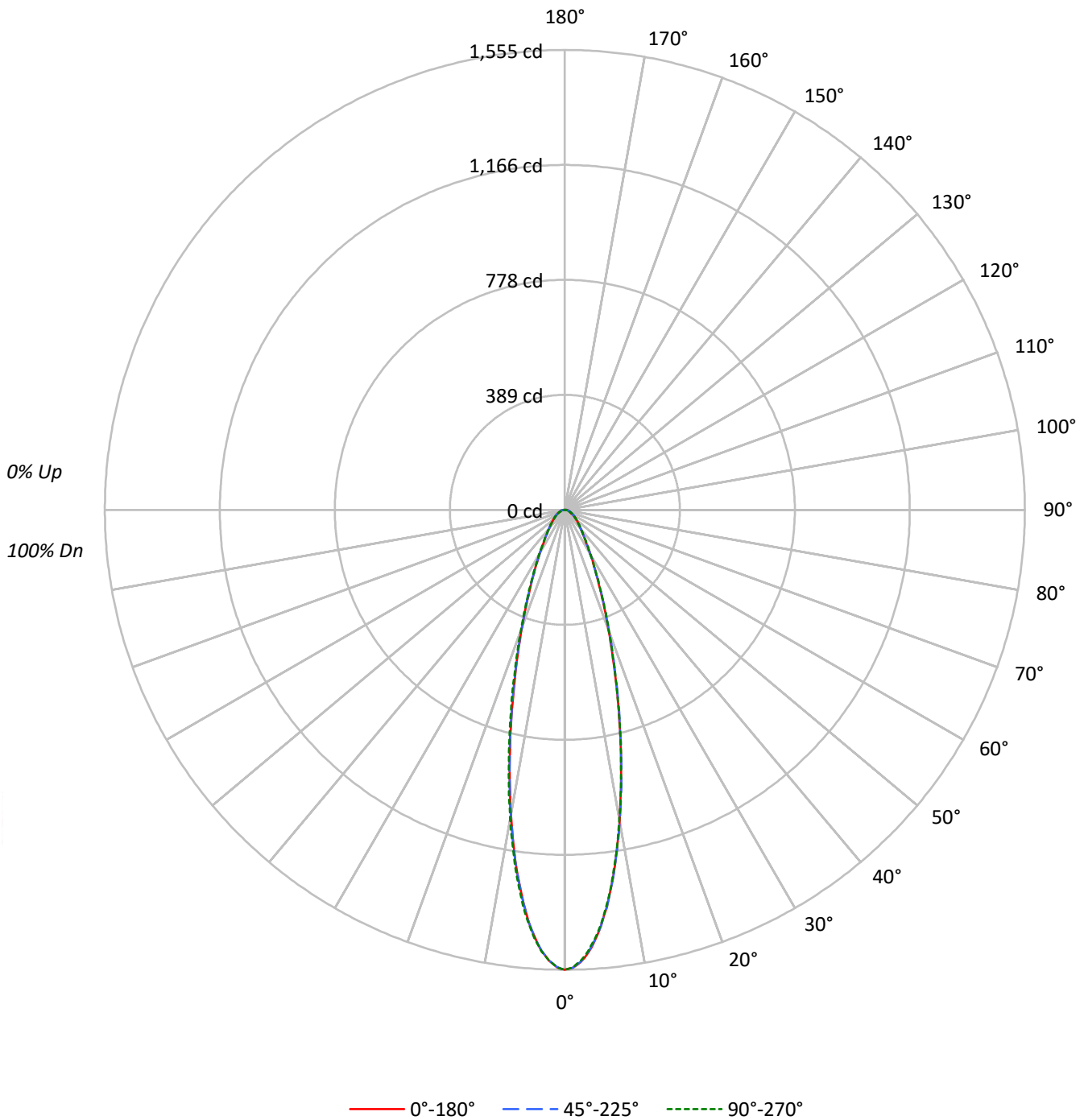
Lumens per Lamp: N/A
Luminaire Lumens: 645.4 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.5
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 1' x H: 0.03')
CIE Type: Direct

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



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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	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	72				
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°	220831	220831	220831	220831	220831
5°	200520	195520	193126	193884	198715
10°	152800	145902	142820	143294	150305
15°	102568	95951	93254	93566	100133
20°	64688	59253	57223	57587	62970
25°	41303	36771	35336	35844	40253
30°	27616	23758	22731	23273	27068
35°	19537	16361	15621	16162	19350
40°	15204	12320	11568	12217	15078
45°	12477	9766	9034	9705	12380
50°	10729	8089	7298	8009	10623
55°	9356	6843	6030	6758	9379
60°	7215	5786	4941	5713	8400
65°	6009	4874	3950	4814	7614
70°	6340	4076	3033	4032	7027
75°	6476	3437	2185	3411	6820
80°	7139	3062	1504	3033	7486
85°	9927	2284	902	2847	10166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 24638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	19.0
10°-20°	193.3	29.9
20°-30°	125.1	19.4
30°-40°	73.8	11.4
40°-50°	49.9	7.7
50°-60°	35.6	5.5
60°-70°	23.5	3.6
70°-80°	13.7	2.1
80°-90°	7.8	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°	441.0	68.3
0°-40°	514.8	79.8
0°-60°	600.4	93.0
0°-90°	645.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	645.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1555	1555	1555	1555	1555	
5°	1411	1410	1404	1398	1398	123
15°	704	708	705	691	687	194
25°	268	270	270	263	261	126
35°	115	115	116	114	114	74
45°	64	64	64	64	64	50
55°	40	40	39	40	40	35
65°	19	24	22	24	24	20
75°	13	14	10	14	14	14
85°	8	6	3	8	8	9
90°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1
1°	1548.9	1548.6	1547.9	1547.1	1546.6	1546.1	1546.1	1546.0	1546.5
2°	1531.0	1530.2	1529.1	1527.6	1526.2	1525.2	1524.7	1525.0	1525.8
3°	1501.3	1501.1	1499.4	1497.5	1495.4	1493.5	1492.9	1492.7	1493.9
4°	1461.0	1460.5	1459.4	1457.1	1454.3	1452.0	1450.0	1449.7	1450.8
5°	1410.6	1410.7	1409.8	1407.2	1404.4	1401.0	1398.0	1397.0	1397.9
6°	1351.5	1352.0	1351.8	1349.7	1346.6	1342.2	1338.0	1336.0	1337.1
7°	1285.7	1286.6	1287.2	1285.5	1282.1	1276.6	1271.5	1268.8	1269.8
8°	1214.7	1216.1	1217.0	1215.9	1212.0	1206.1	1200.0	1197.0	1198.1
9°	1141.0	1142.4	1143.9	1143.1	1138.8	1132.4	1125.6	1122.3	1123.8
10°	1065.6	1067.1	1068.6	1067.8	1063.5	1056.9	1049.5	1046.2	1048.2
11°	990.1	991.6	993.2	992.4	988.0	981.2	973.4	970.3	972.4
12°	915.1	916.6	918.4	917.8	913.2	906.4	898.7	895.2	897.4
13°	841.8	843.6	845.4	845.2	840.9	834.0	826.3	822.5	824.2
14°	770.9	773.0	775.1	775.2	771.3	764.4	756.5	752.7	753.4
15°	703.6	705.8	708.3	709.1	705.4	698.4	690.7	686.4	686.9
16°	640.0	642.2	645.3	646.4	643.0	636.1	628.3	624.1	624.1
17°	581.3	583.2	586.8	588.1	585.0	578.3	570.8	566.5	566.4
18°	527.1	528.9	532.4	534.1	531.1	524.9	517.8	513.7	513.5
19°	477.7	479.4	482.7	484.4	481.4	475.8	469.2	465.3	465.2
20°	433.0	434.6	437.5	439.3	436.3	431.1	425.2	421.5	421.5
21°	392.8	394.0	396.5	398.3	395.6	390.7	385.3	382.1	382.1
22°	356.3	357.4	359.6	361.3	358.9	354.4	349.5	346.5	346.6
23°	323.4	324.4	326.3	328.0	325.8	321.8	317.3	314.7	314.8
24°	293.9	294.8	296.4	298.1	296.2	292.4	288.5	286.1	286.3
25°	267.5	268.2	269.5	271.2	269.5	266.2	262.7	260.5	260.7
26°	243.8	244.3	245.5	247.1	245.6	242.5	239.3	237.6	237.8
27°	222.6	222.8	224.0	225.5	224.1	221.4	218.5	217.1	217.5
28°	203.8	203.5	204.5	206.1	204.8	202.2	199.7	198.7	199.2
29°	187.0	186.3	187.2	188.7	187.6	185.3	183.1	182.3	182.9
30°	171.5	170.9	171.5	173.0	172.1	170.0	168.0	167.5	168.1
31°	157.5	156.9	157.4	158.9	158.3	156.4	154.5	154.1	154.6
32°	144.9	144.5	145.0	146.3	146.0	144.2	142.6	142.2	142.5
33°	133.7	133.4	134.0	135.1	135.0	133.4	131.9	131.5	131.9
34°	123.8	123.6	124.1	125.2	125.2	123.8	122.4	122.1	122.4
35°	115.2	115.1	115.4	116.5	116.5	115.3	114.0	113.7	114.1
36°	107.5	107.4	107.6	108.8	108.7	107.6	106.6	106.2	106.6
37°	100.8	100.6	100.8	101.8	101.7	100.8	99.9	99.5	100.0
38°	94.8	94.4	94.8	95.5	95.4	94.7	93.9	93.6	94.0
39°	89.4	89.0	89.2	89.8	89.6	89.2	88.5	88.2	88.5
40°	84.2	83.9	84.2	84.6	84.3	84.0	83.5	83.3	83.5
41°	79.5	79.3	79.5	79.9	79.6	79.3	78.9	78.7	78.9
42°	75.1	75.0	75.1	75.4	75.1	74.9	74.7	74.4	74.5
43°	71.1	71.0	71.1	71.4	71.1	70.9	70.7	70.5	70.6
44°	67.4	67.3	67.5	67.6	67.3	67.2	67.1	66.8	66.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	64.1	64.0	64.1	64.1	63.8	63.7	63.7	63.4	63.6
46°	61.0	60.9	61.0	60.9	60.5	60.5	60.6	60.4	60.5
47°	58.1	58.1	58.2	57.9	57.5	57.5	57.7	57.5	57.6
48°	55.4	55.3	55.5	55.2	54.7	54.8	55.0	54.8	54.9
49°	52.9	52.8	52.9	52.6	52.0	52.2	52.4	52.3	52.3
50°	50.4	50.4	50.5	50.1	49.5	49.7	50.0	49.9	49.9
51°	48.1	48.1	48.2	47.8	47.2	47.5	47.7	47.5	47.6
52°	45.8	45.9	46.1	45.7	44.9	45.3	45.5	45.4	45.4
53°	43.6	43.9	44.0	43.6	42.8	43.3	43.5	43.4	43.4
54°	41.6	41.9	42.1	41.7	40.8	41.4	41.5	41.5	41.4
55°	39.5	40.1	40.2	39.9	38.9	39.5	39.7	39.6	39.6
56°	37.4	38.3	38.4	38.0	37.0	37.6	37.9	37.8	37.8
57°	34.9	36.5	36.6	36.2	35.1	35.9	36.2	36.0	36.1
58°	32.9	34.8	34.9	34.5	33.4	34.1	34.4	34.4	34.4
59°	29.4	33.2	33.3	32.8	31.6	32.4	32.8	32.8	32.8
60°	26.8	31.6	31.6	31.1	30.0	30.7	31.2	31.2	31.2
61°	24.6	30.1	30.1	29.5	28.4	29.1	29.6	29.7	29.7
62°	22.9	28.7	28.6	27.9	26.8	27.6	28.1	28.3	28.3
63°	21.2	27.3	27.2	26.4	25.2	26.1	26.7	26.9	26.9
64°	19.9	25.9	25.8	24.9	23.7	24.6	25.4	25.5	25.5
65°	19.1	24.5	24.4	23.5	22.3	23.3	24.1	24.2	24.2
66°	18.2	23.3	23.1	22.2	20.9	22.0	22.8	23.0	23.0
67°	17.2	22.1	21.9	20.9	19.5	20.7	21.6	21.7	21.7
68°	17.5	20.9	20.7	19.6	18.2	19.4	20.4	20.6	20.6
69°	17.0	19.7	19.5	18.4	17.0	18.2	19.3	19.5	19.4
70°	16.6	18.6	18.4	17.2	15.7	17.1	18.2	18.4	18.4
71°	16.0	17.4	17.4	16.2	14.5	16.0	17.2	17.4	17.4
72°	15.3	16.2	16.4	15.1	13.4	15.0	16.2	16.4	16.4
73°	14.5	14.9	15.4	14.2	12.2	14.1	15.3	15.5	15.5
74°	13.9	13.1	14.6	13.2	11.1	13.2	14.4	14.7	14.7
75°	13.2	11.7	13.7	12.4	10.2	12.3	13.6	13.9	13.9
76°	12.5	10.5	13.0	11.6	9.3	11.5	12.9	13.1	13.2
77°	11.9	9.8	12.3	10.9	8.4	10.8	12.2	12.4	12.5
78°	11.4	9.6	11.6	10.3	7.6	10.2	11.5	11.8	11.8
79°	10.8	9.8	11.0	9.7	6.9	9.6	10.9	11.2	11.3
80°	10.3	9.7	10.5	9.2	6.2	9.1	10.4	10.6	10.8
81°	9.9	9.5	10.0	8.7	5.5	8.6	9.9	10.1	10.2
82°	9.5	9.1	9.4	8.2	4.9	8.1	9.4	9.7	9.8
83°	9.1	8.8	8.4	7.7	4.3	7.6	9.0	9.2	9.4
84°	8.7	8.4	7.2	7.2	3.7	7.1	8.5	8.8	8.9
85°	8.3	8.1	6.5	6.7	3.2	6.6	8.1	8.4	8.5
86°	8.0	7.8	6.4	6.2	2.6	6.1	7.8	8.0	8.2
87°	7.6	7.5	6.4	5.8	2.1	5.7	7.4	7.7	7.9
88°	7.3	7.2	6.2	4.9	1.8	5.3	7.1	7.4	7.6
89°	7.0	6.9	6.2	4.0	1.4	4.9	6.8	7.1	7.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)