

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: P958950

Luminaire Tested: MFO-06W-940-30-X-4F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958950
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-4F-UNV-STD
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 30 DEGREE OPTICS
6 WATTS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

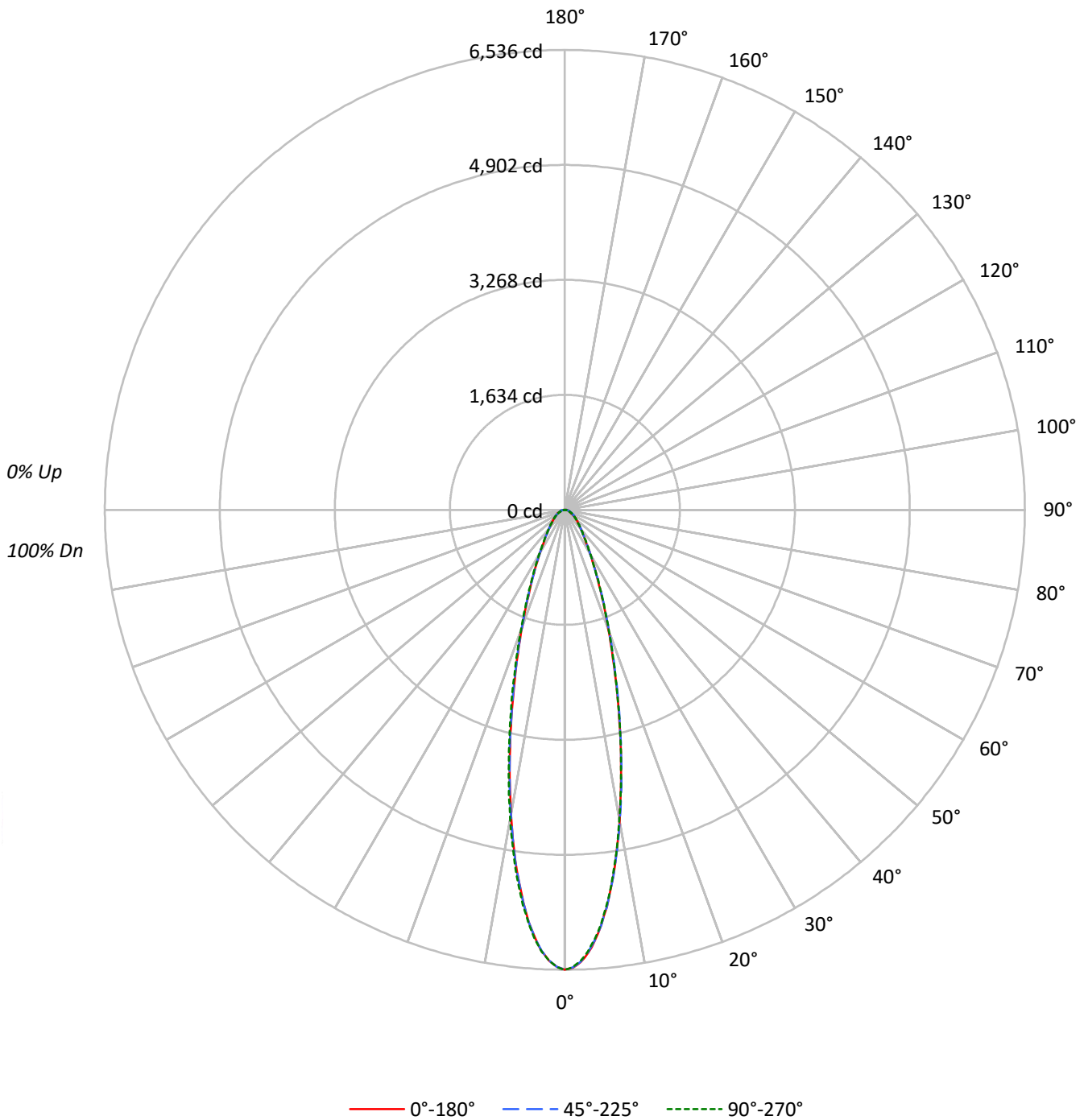
Lumens per Lamp: N/A
Luminaire Lumens: 2712.3 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.5
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 4' x H: 0.03')
CIE Type: Direct

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



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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	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°	211108	205713	202914	203988	209217
10°	161215	153730	150051	150972	158580
15°	108449	101231	97973	98717	105867
20°	68553	62596	60124	60836	66730
25°	43874	38903	37119	37917	42758
30°	29417	25162	23884	24656	28826
35°	20860	17354	16409	17142	20662
40°	16293	13084	12158	12980	16145
45°	13409	10394	9487	10320	13305
50°	11588	8623	7670	8530	11462
55°	10153	7317	6328	7218	10184
60°	7901	6205	5192	6107	9189
65°	6641	5230	4145	5159	8409
70°	7070	4395	3188	4344	7853
75°	7381	3725	2293	3687	7794
80°	8491	3321	1583	3291	8843
85°	13035	2521	937	3135	13371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 103031 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.7	19.0
10°-20°	812.2	29.9
20°-30°	525.6	19.4
30°-40°	310.1	11.4
40°-50°	209.7	7.7
50°-60°	149.7	5.5
60°-70°	98.7	3.6
70°-80°	57.7	2.1
80°-90°	33.0	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°	1853.4	68.3
0°-40°	2163.6	79.8
0°-60°	2523.0	93.0
0°-90°	2712.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2712.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6536	6536	6536	6536	6536	
5°	5928	5925	5902	5875	5875	518
15°	2957	2977	2964	2903	2887	816
25°	1124	1133	1132	1104	1096	528
35°	484	485	490	479	479	311
45°	269	269	268	268	267	211
55°	166	169	163	167	166	147
65°	80	102	94	101	102	83
75°	55	58	43	57	58	59
85°	35	28	13	34	36	38
90°	23	23	23	23	23	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6
1°	6509.5	6508.1	6505.3	6501.7	6499.5	6497.6	6497.6	6497.4	6499.3
2°	6434.0	6430.9	6426.2	6420.0	6413.9	6409.8	6407.9	6409.0	6412.1
3°	6309.2	6308.5	6301.5	6293.4	6284.4	6276.5	6274.1	6273.3	6278.2
4°	6140.0	6138.1	6133.4	6123.5	6111.8	6102.0	6093.6	6092.5	6097.1
5°	5928.0	5928.4	5924.7	5913.7	5902.3	5887.7	5875.0	5870.9	5874.9
6°	5679.9	5682.0	5681.0	5672.4	5659.3	5640.9	5623.2	5614.5	5619.3
7°	5403.3	5407.2	5409.5	5402.3	5388.0	5365.1	5343.5	5332.3	5336.5
8°	5105.0	5110.6	5114.7	5109.9	5093.7	5068.6	5043.0	5030.3	5035.1
9°	4795.1	4801.1	4807.2	4803.8	4786.1	4758.8	4730.4	4716.5	4723.0
10°	4478.4	4484.7	4491.1	4487.5	4469.4	4441.6	4410.5	4396.7	4405.2
11°	4161.1	4167.2	4173.9	4170.7	4152.1	4123.4	4090.9	4077.7	4086.6
12°	3845.7	3852.2	3859.5	3857.2	3837.9	3809.3	3776.7	3762.1	3771.3
13°	3537.8	3545.3	3552.8	3551.9	3534.1	3504.9	3472.7	3456.8	3463.8
14°	3239.8	3248.5	3257.3	3257.9	3241.6	3212.5	3179.0	3163.2	3166.2
15°	2957.0	2966.3	2976.7	2979.9	2964.4	2935.1	2902.8	2884.8	2886.6
16°	2689.6	2699.0	2712.0	2716.4	2702.2	2673.2	2640.7	2622.7	2623.0
17°	2442.8	2451.0	2466.1	2471.6	2458.4	2430.2	2399.0	2380.8	2380.3
18°	2215.2	2222.7	2237.6	2244.8	2232.0	2205.8	2176.0	2158.7	2158.0
19°	2007.7	2014.9	2028.7	2035.9	2023.3	1999.5	1971.9	1955.6	1954.8
20°	1819.8	1826.5	1838.6	1846.2	1833.7	1811.6	1786.9	1771.3	1771.4
21°	1650.6	1655.8	1666.5	1673.7	1662.5	1642.0	1619.3	1605.8	1605.9
22°	1497.2	1502.0	1511.2	1518.2	1508.1	1489.6	1468.8	1456.1	1456.8
23°	1359.2	1363.3	1371.2	1378.4	1369.4	1352.3	1333.4	1322.4	1322.9
24°	1235.2	1238.8	1245.5	1252.6	1244.7	1228.9	1212.3	1202.2	1203.2
25°	1124.2	1126.9	1132.7	1139.6	1132.4	1118.9	1104.0	1094.7	1095.6
26°	1024.7	1026.7	1031.7	1038.5	1032.1	1019.1	1005.7	998.4	999.4
27°	935.6	936.3	941.2	947.9	942.0	930.4	918.3	912.5	913.9
28°	856.3	855.2	859.4	866.1	860.6	849.9	839.2	835.2	837.0
29°	785.7	783.0	786.7	793.1	788.5	778.6	769.4	766.2	768.5
30°	720.9	718.1	720.6	726.9	723.3	714.4	706.1	703.8	706.4
31°	661.9	659.5	661.6	667.9	665.2	657.2	649.4	647.7	649.9
32°	609.2	607.2	609.4	615.0	613.4	606.2	599.2	597.5	599.0
33°	562.1	560.6	563.1	567.9	567.3	560.6	554.2	552.7	554.1
34°	520.5	519.6	521.5	526.3	526.2	520.3	514.6	513.2	514.4
35°	484.0	483.6	484.9	489.7	489.5	484.4	479.0	477.7	479.4
36°	451.8	451.3	452.4	457.1	457.0	452.2	447.9	446.3	448.0
37°	423.7	422.8	423.8	427.8	427.4	423.7	419.8	418.3	420.1
38°	398.6	396.9	398.3	401.4	400.9	398.1	394.8	393.2	395.1
39°	375.6	373.9	375.0	377.5	376.6	374.8	372.1	370.8	372.1
40°	353.9	352.5	353.7	355.6	354.4	353.2	350.9	350.1	350.7
41°	334.2	333.1	334.2	335.6	334.3	333.2	331.5	330.9	331.4
42°	315.8	315.0	315.8	316.9	315.8	314.8	313.9	312.8	313.2
43°	298.9	298.4	299.0	299.9	298.9	298.0	297.2	296.2	296.6
44°	283.4	282.9	283.7	283.9	282.9	282.2	281.9	280.8	281.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	269.2	268.8	269.4	269.3	268.0	267.5	267.5	266.6	267.1
46°	256.3	256.0	256.4	255.9	254.3	254.1	254.6	253.7	254.1
47°	244.1	244.0	244.5	243.5	241.8	241.7	242.4	241.7	242.1
48°	232.8	232.6	233.1	231.8	229.8	230.1	231.0	230.3	230.5
49°	222.2	221.8	222.5	220.9	218.6	219.3	220.3	219.7	219.8
50°	211.8	211.7	212.2	210.4	208.1	208.9	209.9	209.5	209.5
51°	202.0	202.0	202.6	201.0	198.3	199.4	200.3	199.8	199.9
52°	192.5	192.8	193.5	192.0	188.8	190.2	191.2	190.9	190.7
53°	183.4	184.3	185.1	183.4	180.0	181.8	182.7	182.4	182.3
54°	174.7	176.1	176.9	175.4	171.5	173.8	174.6	174.3	174.1
55°	165.9	168.3	169.1	167.7	163.3	165.9	166.8	166.4	166.4
56°	157.3	160.8	161.4	159.9	155.4	158.2	159.2	158.8	158.8
57°	146.8	153.5	154.0	152.3	147.7	150.8	151.9	151.4	151.6
58°	138.2	146.3	146.7	144.9	140.3	143.2	144.6	144.4	144.5
59°	123.6	139.4	139.8	137.7	133.0	136.1	137.7	137.7	137.7
60°	112.8	132.7	133.0	130.7	126.1	129.0	130.9	131.1	131.2
61°	103.3	126.5	126.6	123.8	119.2	122.2	124.5	124.9	124.9
62°	96.1	120.4	120.3	117.1	112.5	115.8	118.3	118.9	118.8
63°	89.2	114.6	114.2	110.8	106.1	109.6	112.4	113.0	112.9
64°	83.8	108.8	108.3	104.7	99.7	103.6	106.6	107.3	107.3
65°	80.4	103.2	102.5	98.8	93.6	97.8	101.1	101.9	101.8
66°	76.4	97.9	97.2	93.2	87.8	92.3	95.9	96.5	96.5
67°	72.4	92.7	92.0	87.7	82.0	86.9	90.8	91.4	91.4
68°	73.7	87.7	86.9	82.4	76.5	81.7	85.8	86.5	86.4
69°	71.4	82.8	82.0	77.3	71.3	76.7	81.0	81.8	81.7
70°	69.6	78.2	77.4	72.4	66.0	71.9	76.5	77.3	77.3
71°	67.1	73.2	73.0	68.0	61.1	67.3	72.2	73.1	73.0
72°	64.1	68.2	68.7	63.6	56.2	63.1	68.1	69.0	69.0
73°	61.1	62.6	64.8	59.5	51.3	59.1	64.1	65.2	65.3
74°	58.4	54.9	61.2	55.7	46.8	55.3	60.5	61.6	61.8
75°	55.4	49.3	57.7	52.1	42.8	51.7	57.1	58.2	58.5
76°	52.6	44.3	54.5	48.8	38.9	48.5	54.0	55.0	55.3
77°	49.9	41.3	51.6	45.8	35.3	45.6	51.1	52.1	52.5
78°	47.7	40.4	48.9	43.1	32.0	42.9	48.4	49.4	49.8
79°	45.6	41.2	46.3	40.7	28.9	40.4	46.0	47.0	47.4
80°	43.4	40.7	44.0	38.7	26.1	38.3	43.6	44.7	45.2
81°	41.5	39.9	42.0	36.6	23.3	36.1	41.5	42.5	43.0
82°	39.9	38.4	39.6	34.4	20.7	34.0	39.6	40.6	41.1
83°	38.1	37.0	35.2	32.3	18.2	31.9	37.6	38.7	39.3
84°	36.6	35.5	30.2	30.1	15.6	29.7	35.8	37.0	37.5
85°	34.9	34.0	27.5	28.0	13.3	27.6	34.2	35.3	35.8
86°	33.5	32.8	27.0	26.2	11.0	25.7	32.6	33.8	34.4
87°	32.1	31.5	26.9	24.3	9.0	23.9	31.2	32.4	33.0
88°	30.8	30.3	26.2	20.5	7.4	22.1	29.7	31.1	31.7
89°	29.4	29.2	26.1	16.9	5.9	20.6	28.4	30.0	30.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0

(END OF REPORT)