

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: P958946

Luminaire Tested: MFO-06W-935-60-X-4F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958946
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-935-60-X-4F-UNV-STD
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 60 DEGREE OPTICS
6 WATTS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

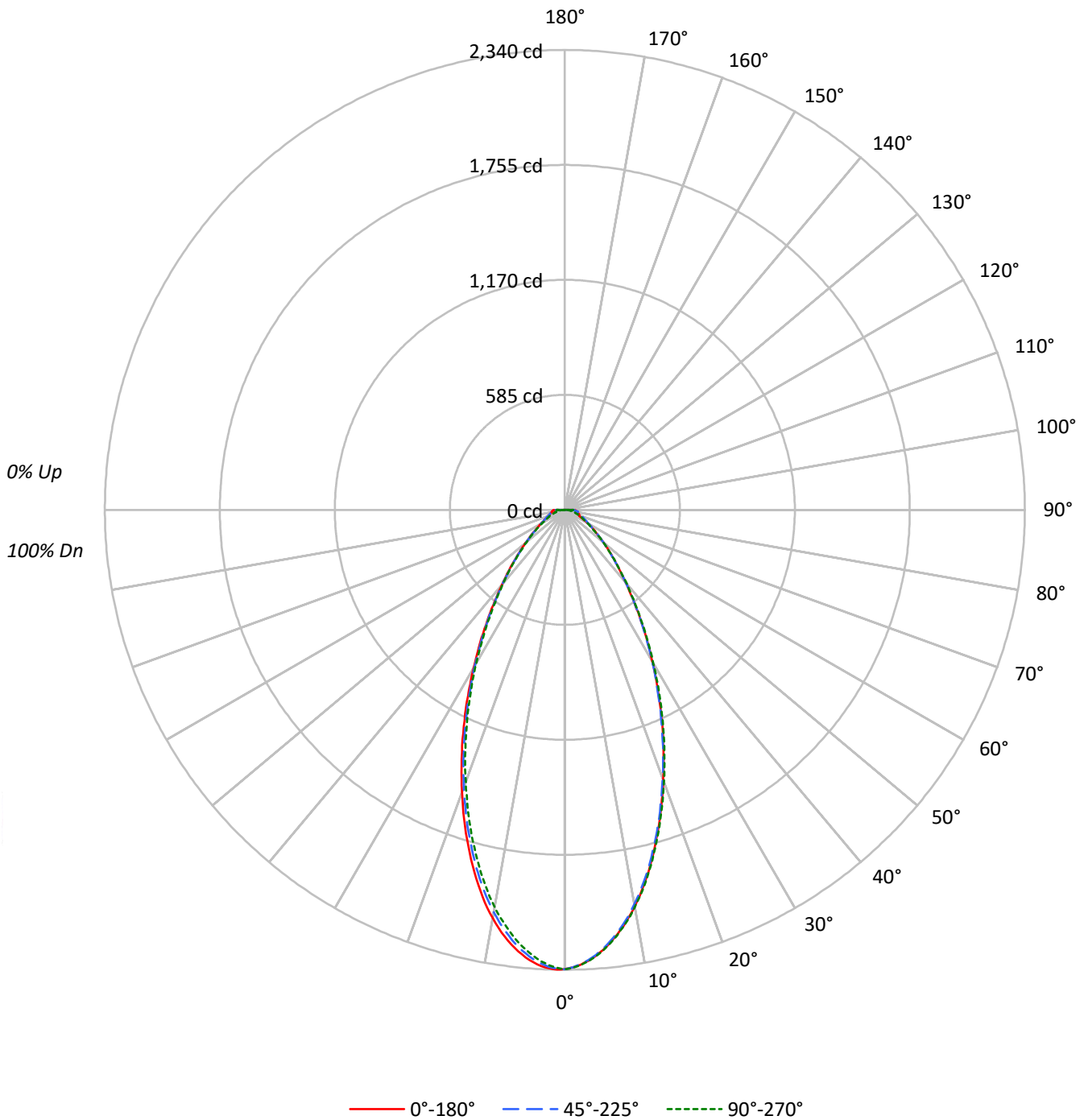
Lumens per Lamp: N/A
Luminaire Lumens: 2348.4 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.76 / 0.82
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 4' x H: 0.03')
CIE Type: Direct

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				
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50				
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	82987	82987	82987	82987	82987
5°	80013	77786	77345	78734	81430
10°	73761	69757	68912	71192	75996
15°	64956	59884	58779	61547	67571
20°	55154	49533	48334	51109	57621
25°	45369	39748	38551	41012	47484
30°	36334	31004	29745	31929	37893
35°	28493	23631	22447	24286	29588
40°	22181	17833	16713	18225	22917
45°	17474	13515	12433	13743	17917
50°	13930	10326	9263	10452	14176
55°	11347	8023	6925	8057	11500
60°	9217	6462	5287	6466	9764
65°	7219	5577	4220	5577	9020
70°	7842	5162	3468	5168	9133
75°	9366	4997	2753	5010	10232
80°	12600	5177	2268	5253	13461
85°	21737	4766	1402	5591	23082

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 192624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	8.9
10°-20°	496.3	21.1
20°-30°	539.1	23.0
30°-40°	421.2	17.9
40°-50°	275.8	11.7
50°-60°	167.9	7.2
60°-70°	106.1	4.5
70°-80°	76.1	3.2
80°-90°	56.9	2.4
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°	1244.4	53.0
0°-40°	1665.6	70.9
0°-60°	2109.3	89.8
0°-90°	2348.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2338	2338	2338	2338	2338	
5°	2247	2240	2250	2268	2287	208
15°	1771	1761	1778	1810	1842	492
25°	1162	1157	1176	1194	1217	532
35°	661	660	670	679	686	415
45°	351	350	351	356	360	274
55°	185	185	179	186	188	168
65°	87	109	95	109	109	93
75°	70	77	51	78	77	75
85°	58	52	20	61	62	62
90°	43	43	43	43	43	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6
1°	2328.6	2327.5	2327.5	2328.5	2330.4	2333.0	2335.5	2338.2	2339.7
2°	2315.8	2313.5	2312.9	2314.2	2317.5	2321.8	2326.4	2331.0	2334.4
3°	2298.3	2294.1	2293.3	2295.0	2299.6	2305.4	2311.9	2318.7	2324.1
4°	2275.2	2270.2	2269.3	2271.6	2276.9	2284.0	2292.4	2301.1	2307.6
5°	2246.8	2240.9	2240.3	2243.4	2249.8	2257.9	2267.6	2277.9	2286.6
6°	2214.4	2207.1	2206.6	2210.8	2217.1	2226.7	2238.2	2249.2	2259.6
7°	2178.1	2170.0	2170.0	2173.7	2181.3	2192.0	2204.1	2216.6	2228.2
8°	2138.4	2129.2	2129.9	2134.1	2141.7	2153.2	2165.9	2180.1	2193.5
9°	2095.4	2085.5	2085.9	2090.4	2099.2	2111.4	2124.4	2139.6	2154.0
10°	2049.0	2037.5	2037.9	2043.7	2052.6	2065.9	2079.8	2094.7	2111.1
11°	1999.0	1987.0	1987.5	1993.7	2003.2	2016.7	2031.4	2046.3	2063.5
12°	1946.0	1933.4	1934.5	1940.9	1950.7	1964.4	1980.2	1994.9	2012.6
13°	1890.1	1877.4	1878.9	1885.9	1895.4	1910.2	1925.8	1940.6	1958.3
14°	1831.2	1819.3	1820.6	1828.3	1837.7	1853.2	1868.8	1883.8	1901.3
15°	1771.1	1759.8	1760.9	1770.0	1778.5	1794.6	1809.8	1824.8	1842.4
16°	1710.8	1698.6	1700.5	1710.0	1718.9	1734.5	1749.9	1764.3	1781.9
17°	1649.7	1636.5	1639.0	1648.9	1658.1	1673.4	1688.4	1702.0	1720.3
18°	1588.1	1574.1	1577.5	1587.2	1597.0	1611.7	1626.2	1639.3	1656.8
19°	1526.1	1512.4	1515.8	1526.1	1535.5	1549.7	1563.8	1576.4	1593.2
20°	1464.1	1451.0	1454.9	1464.7	1474.1	1487.5	1501.2	1513.7	1529.6
21°	1402.9	1390.2	1393.8	1403.8	1413.8	1425.6	1438.6	1450.5	1466.4
22°	1342.0	1330.1	1333.7	1343.1	1353.2	1364.2	1376.6	1387.9	1403.0
23°	1281.4	1270.1	1274.4	1283.1	1293.6	1303.4	1315.2	1326.0	1340.3
24°	1221.5	1210.7	1215.5	1223.9	1234.2	1243.2	1254.4	1264.5	1278.3
25°	1162.5	1152.8	1157.3	1165.5	1176.1	1183.7	1194.1	1204.3	1216.7
26°	1104.7	1096.0	1100.4	1108.4	1118.4	1125.6	1135.1	1144.9	1155.8
27°	1048.5	1040.9	1045.1	1052.6	1061.9	1069.1	1077.5	1086.4	1096.5
28°	994.3	987.3	991.1	998.1	1006.8	1013.5	1021.2	1029.2	1038.7
29°	941.4	935.3	938.5	945.1	952.9	960.0	967.1	973.7	982.8
30°	890.4	885.0	887.9	894.0	900.8	908.3	914.4	920.2	928.6
31°	841.1	836.4	839.2	844.8	851.0	858.3	863.7	868.9	876.5
32°	793.6	789.1	791.5	796.8	802.9	809.9	814.7	819.3	826.1
33°	747.8	744.0	746.2	751.5	756.7	763.6	767.8	772.2	777.8
34°	703.2	700.4	702.4	707.6	712.2	718.4	722.5	726.1	731.2
35°	661.1	658.8	660.3	665.5	669.6	675.2	678.6	682.5	686.5
36°	621.0	619.2	620.7	625.0	629.3	634.0	637.1	640.6	644.4
37°	583.1	581.8	583.0	586.6	590.6	594.9	597.7	601.0	604.3
38°	547.2	546.2	547.3	550.6	554.2	557.8	560.7	563.7	566.5
39°	513.5	512.7	513.8	516.6	519.9	523.0	525.6	528.5	531.1
40°	481.8	481.1	482.1	484.5	487.2	490.3	492.7	495.4	497.8
41°	452.2	451.5	452.4	454.4	456.5	459.7	461.9	464.3	466.5
42°	424.5	423.6	424.2	426.1	427.6	430.7	433.0	435.1	437.3
43°	398.3	397.5	398.0	399.5	400.5	403.3	405.7	407.7	409.8
44°	373.8	373.1	373.4	374.6	375.0	377.8	380.1	382.1	384.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	350.8	350.1	350.3	351.1	351.2	353.9	356.2	358.2	359.7
46°	329.1	328.6	328.6	329.1	328.7	331.4	333.8	335.6	336.7
47°	308.7	308.4	308.4	308.2	307.5	310.2	312.9	314.6	315.5
48°	289.4	289.4	289.1	288.6	287.5	290.3	293.1	294.7	295.4
49°	271.4	271.4	271.1	270.6	268.9	271.7	274.6	276.1	276.7
50°	254.6	254.6	254.1	253.4	251.3	254.3	257.2	258.8	259.1
51°	238.8	238.9	238.5	237.3	234.9	237.9	240.7	242.4	242.7
52°	224.1	224.2	223.8	222.3	219.3	222.7	225.6	227.2	227.5
53°	210.4	210.5	210.0	208.5	204.9	208.6	211.5	213.1	213.3
54°	197.6	197.7	197.2	195.5	191.4	195.4	198.5	199.9	200.0
55°	185.4	185.9	185.4	183.5	178.7	183.2	186.2	187.7	187.9
56°	173.7	174.8	174.3	172.3	167.0	172.0	174.8	176.4	176.4
57°	162.5	164.5	164.1	162.0	156.2	161.7	164.5	165.9	165.9
58°	152.3	155.1	154.8	152.7	146.1	152.2	155.0	156.3	156.3
59°	142.3	146.4	146.3	144.1	136.9	143.5	146.4	147.5	147.4
60°	131.6	138.5	138.5	136.2	128.4	135.7	138.6	139.5	139.4
61°	120.7	131.3	131.3	129.0	120.6	128.4	131.5	132.2	132.2
62°	113.8	124.8	125.0	122.4	113.5	121.8	125.0	125.6	125.6
63°	103.6	118.9	119.3	116.2	107.0	115.7	119.3	119.6	119.5
64°	93.2	113.4	114.0	110.5	100.9	110.3	114.0	114.2	114.2
65°	87.4	108.6	109.3	105.5	95.3	105.3	109.3	109.3	109.2
66°	83.6	104.0	105.0	100.8	89.9	100.5	104.9	104.9	104.7
67°	80.4	99.9	101.1	96.4	85.0	96.1	101.0	100.9	100.6
68°	78.7	96.1	97.6	92.3	80.4	92.2	97.3	97.1	96.7
69°	76.9	92.7	94.2	88.9	76.0	88.6	94.1	93.6	93.3
70°	77.2	89.4	90.9	85.5	71.8	84.9	91.0	90.3	89.9
71°	77.1	86.4	87.8	82.1	67.5	81.7	88.0	87.2	86.9
72°	76.3	83.5	84.9	78.9	63.2	78.6	85.2	84.3	83.9
73°	74.3	80.0	82.2	75.9	59.1	75.7	82.5	81.5	81.1
74°	72.4	75.4	79.7	73.1	55.1	73.0	79.9	78.9	78.9
75°	70.3	69.6	77.4	70.7	51.4	70.7	77.6	76.8	76.8
76°	68.6	63.2	75.2	68.6	48.1	68.8	75.5	74.8	74.2
77°	67.0	59.2	73.1	67.0	45.2	67.3	73.7	72.7	72.4
78°	65.8	57.3	71.4	65.8	42.5	66.3	72.2	71.2	71.0
79°	65.1	57.5	69.8	64.8	40.0	65.5	71.5	69.9	69.8
80°	64.4	59.0	68.6	64.0	37.4	64.8	69.6	68.7	68.8
81°	63.4	59.1	67.3	62.9	34.5	63.8	68.1	67.5	67.6
82°	62.4	59.1	65.7	61.4	31.2	62.3	66.5	66.2	66.4
83°	61.0	58.5	63.2	59.5	27.5	60.1	64.8	64.6	64.9
84°	59.6	57.5	59.6	56.3	23.6	57.4	62.9	63.0	63.4
85°	58.2	56.3	52.0	52.4	19.9	53.2	61.0	61.3	61.8
86°	56.0	54.7	48.1	49.1	15.8	49.2	59.1	59.7	60.2
87°	54.1	53.0	47.8	44.8	12.7	46.1	57.4	58.2	58.7
88°	52.3	51.3	47.4	39.8	10.5	43.3	55.8	56.8	57.4
89°	51.0	49.8	46.4	32.9	7.8	40.7	54.3	55.7	56.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0

(END OF REPORT)