

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: P958930

Luminaire Tested: MFO-06W-927-60-X-4F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958930
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-927-60-X-4F-UNV-STD
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 60 DEGREE OPTICS
6 WATTS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

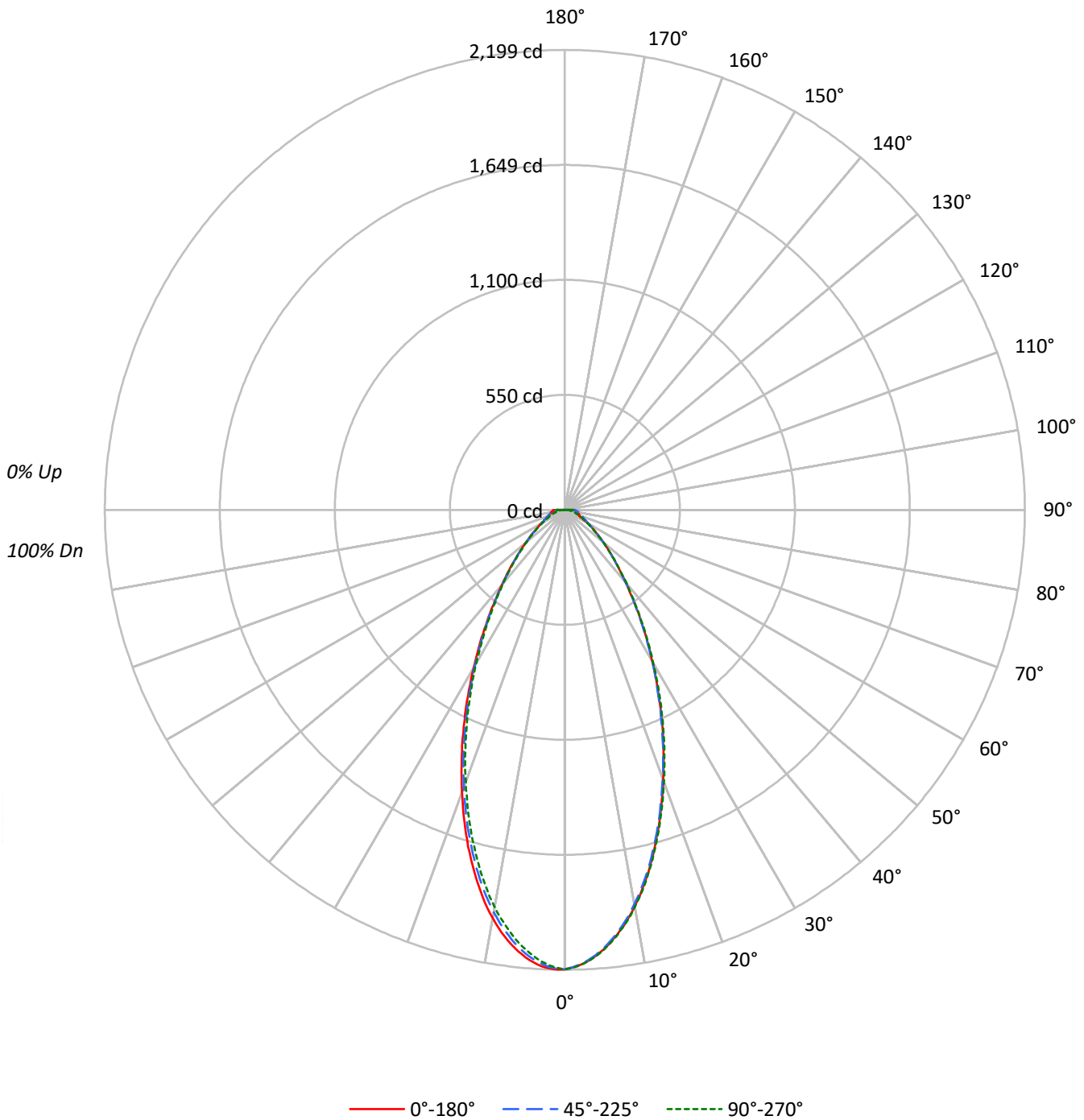
Lumens per Lamp: N/A
Luminaire Lumens: 2207.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.76 / 0.82
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 4' x H: 0.03')
CIE Type: Direct

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°	77992	77992	77992	77992	77992
5°	75198	73102	72687	73991	76527
10°	69319	65557	64762	66906	71421
15°	61043	56276	55240	57844	63500
20°	51831	46551	45422	48032	54152
25°	42637	37354	36227	38542	44627
30°	34143	29139	27955	30005	35612
35°	26778	22210	21096	22822	27808
40°	20846	16760	15708	17127	21536
45°	16418	12701	11686	12917	16836
50°	13093	9704	8706	9822	13323
55°	10667	7542	6510	7573	10808
60°	8664	6074	4970	6079	9175
65°	6781	5241	3964	5241	8475
70°	7375	4850	3255	4855	8584
75°	8806	4694	2587	4707	9606
80°	11856	4868	2134	4936	12658
85°	20430	4482	1318	5261	21700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 180977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	8.9
10°-20°	466.4	21.1
20°-30°	506.6	23.0
30°-40°	395.8	17.9
40°-50°	259.2	11.7
50°-60°	157.8	7.2
60°-70°	99.7	4.5
70°-80°	71.5	3.2
80°-90°	53.5	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°	1169.5	53.0
0°-40°	1565.3	70.9
0°-60°	1982.3	89.8
0°-90°	2207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2207.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2197	2197	2197	2197	2197	
5°	2112	2105	2114	2131	2149	196
15°	1664	1655	1671	1701	1731	462
25°	1092	1088	1105	1122	1144	500
35°	621	621	629	638	645	390
45°	330	329	330	335	338	257
55°	174	174	168	175	177	157
65°	82	103	90	103	103	88
75°	66	73	48	73	72	70
85°	55	49	19	57	58	59
90°	40	40	40	40	40	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2196.9	2196.9	2196.9	2196.9	2196.9	2196.9	2196.9	2196.9	2196.9
1°	2188.4	2187.4	2187.4	2188.3	2190.1	2192.5	2194.9	2197.4	2198.8
2°	2176.4	2174.2	2173.6	2174.9	2178.0	2182.0	2186.3	2190.7	2193.9
3°	2159.9	2156.0	2155.2	2156.8	2161.1	2166.6	2172.7	2179.1	2184.1
4°	2138.2	2133.5	2132.6	2134.8	2139.8	2146.5	2154.4	2162.5	2168.7
5°	2111.6	2105.9	2105.4	2108.4	2114.3	2122.0	2131.0	2140.8	2148.9
6°	2081.1	2074.2	2073.8	2077.7	2083.6	2092.7	2103.4	2113.7	2123.6
7°	2047.0	2039.3	2039.3	2042.9	2050.0	2060.0	2071.4	2083.2	2094.0
8°	2009.7	2001.0	2001.6	2005.6	2012.7	2023.5	2035.5	2048.8	2061.4
9°	1969.2	1960.0	1960.3	1964.5	1972.8	1984.2	1996.5	2010.8	2024.3
10°	1925.6	1914.9	1915.2	1920.7	1929.0	1941.5	1954.6	1968.5	1984.0
11°	1878.7	1867.3	1867.8	1873.6	1882.6	1895.3	1909.1	1923.1	1939.2
12°	1828.9	1817.0	1818.0	1824.1	1833.2	1846.2	1860.9	1874.8	1891.4
13°	1776.3	1764.4	1765.8	1772.3	1781.2	1795.2	1809.9	1823.7	1840.4
14°	1720.9	1709.8	1710.9	1718.3	1727.1	1741.6	1756.3	1770.4	1786.8
15°	1664.4	1653.8	1654.8	1663.4	1671.4	1686.5	1700.9	1714.9	1731.4
16°	1607.8	1596.3	1598.2	1607.1	1615.4	1630.1	1644.5	1658.0	1674.6
17°	1550.4	1537.9	1540.3	1549.6	1558.3	1572.6	1586.7	1599.5	1616.7
18°	1492.5	1479.3	1482.5	1491.7	1500.8	1514.7	1528.3	1540.6	1557.0
19°	1434.2	1421.4	1424.6	1434.2	1443.0	1456.4	1469.7	1481.5	1497.3
20°	1375.9	1363.7	1367.3	1376.5	1385.3	1397.9	1410.8	1422.5	1437.5
21°	1318.4	1306.5	1309.8	1319.2	1328.6	1339.7	1352.0	1363.2	1378.1
22°	1261.2	1250.0	1253.4	1262.2	1271.7	1282.0	1293.7	1304.4	1318.5
23°	1204.3	1193.6	1197.6	1205.9	1215.7	1224.9	1236.0	1246.2	1259.6
24°	1147.9	1137.8	1142.3	1150.2	1159.9	1168.3	1178.9	1188.4	1201.3
25°	1092.5	1083.4	1087.6	1095.3	1105.2	1112.5	1122.2	1131.8	1143.5
26°	1038.1	1030.0	1034.1	1041.7	1051.1	1057.8	1066.8	1075.9	1086.2
27°	985.4	978.3	982.2	989.3	998.0	1004.7	1012.6	1021.0	1030.5
28°	934.4	927.9	931.4	938.0	946.2	952.5	959.7	967.3	976.2
29°	884.7	879.0	882.0	888.2	895.5	902.2	908.9	915.1	923.6
30°	836.7	831.7	834.5	840.2	846.6	853.6	859.3	864.8	872.7
31°	790.5	786.0	788.7	793.9	799.8	806.6	811.7	816.6	823.7
32°	745.8	741.6	743.9	748.8	754.5	761.2	765.6	770.0	776.4
33°	702.8	699.2	701.3	706.2	711.1	717.7	721.6	725.7	730.9
34°	660.9	658.2	660.1	665.0	669.4	675.2	679.0	682.4	687.2
35°	621.3	619.1	620.6	625.4	629.3	634.5	637.7	641.4	645.2
36°	583.6	581.9	583.4	587.4	591.4	595.8	598.7	602.0	605.6
37°	548.0	546.7	547.9	551.3	555.1	559.1	561.7	564.8	567.9
38°	514.2	513.3	514.3	517.4	520.8	524.2	526.9	529.8	532.4
39°	482.6	481.8	482.8	485.5	488.6	491.5	493.9	496.7	499.1
40°	452.8	452.1	453.1	455.4	457.9	460.7	463.0	465.5	467.8
41°	425.0	424.3	425.1	427.1	429.0	432.0	434.1	436.3	438.4
42°	398.9	398.1	398.7	400.4	401.9	404.7	406.9	408.9	410.9
43°	374.3	373.6	374.1	375.4	376.4	379.0	381.3	383.1	385.2
44°	351.3	350.6	350.9	352.1	352.4	355.1	357.2	359.1	360.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	329.6	329.1	329.2	330.0	330.1	332.6	334.8	336.6	338.0
46°	309.3	308.8	308.8	309.3	308.9	311.4	313.7	315.4	316.5
47°	290.1	289.8	289.8	289.7	289.0	291.5	294.0	295.6	296.5
48°	271.9	271.9	271.7	271.2	270.2	272.8	275.5	277.0	277.7
49°	255.1	255.1	254.8	254.3	252.7	255.3	258.1	259.5	260.0
50°	239.3	239.3	238.8	238.2	236.2	239.0	241.7	243.2	243.5
51°	224.4	224.5	224.2	223.0	220.8	223.6	226.2	227.8	228.1
52°	210.6	210.7	210.3	209.0	206.1	209.3	212.0	213.5	213.8
53°	197.7	197.9	197.4	195.9	192.6	196.0	198.8	200.3	200.5
54°	185.7	185.8	185.4	183.8	179.9	183.7	186.5	187.9	188.0
55°	174.3	174.7	174.3	172.4	168.0	172.2	175.0	176.4	176.6
56°	163.3	164.3	163.8	161.9	157.0	161.7	164.3	165.8	165.8
57°	152.7	154.6	154.2	152.3	146.8	151.9	154.6	155.9	155.9
58°	143.1	145.8	145.5	143.5	137.3	143.0	145.6	146.9	146.9
59°	133.7	137.6	137.5	135.5	128.7	134.9	137.6	138.7	138.5
60°	123.7	130.2	130.2	128.0	120.7	127.5	130.3	131.1	131.0
61°	113.5	123.4	123.4	121.3	113.4	120.7	123.5	124.2	124.2
62°	106.9	117.2	117.5	115.1	106.7	114.5	117.5	118.0	118.0
63°	97.3	111.7	112.1	109.2	100.5	108.8	112.1	112.4	112.3
64°	87.6	106.6	107.2	103.8	94.8	103.6	107.2	107.3	107.3
65°	82.1	102.0	102.7	99.2	89.5	98.9	102.7	102.7	102.6
66°	78.5	97.8	98.7	94.7	84.5	94.5	98.6	98.6	98.4
67°	75.6	93.9	95.0	90.6	79.9	90.3	94.9	94.8	94.6
68°	74.0	90.3	91.7	86.8	75.6	86.7	91.5	91.3	90.9
69°	72.2	87.1	88.5	83.6	71.4	83.2	88.4	87.9	87.7
70°	72.6	84.0	85.4	80.4	67.4	79.8	85.5	84.8	84.5
71°	72.5	81.2	82.6	77.2	63.4	76.8	82.7	82.0	81.6
72°	71.7	78.4	79.8	74.2	59.4	73.9	80.0	79.2	78.9
73°	69.8	75.2	77.3	71.3	55.5	71.1	77.5	76.6	76.3
74°	68.0	70.9	74.9	68.7	51.8	68.6	75.1	74.2	74.2
75°	66.1	65.4	72.7	66.4	48.3	66.4	72.9	72.1	72.1
76°	64.5	59.4	70.6	64.5	45.2	64.7	71.0	70.3	69.7
77°	63.0	55.6	68.7	63.0	42.5	63.2	69.3	68.4	68.0
78°	61.8	53.8	67.1	61.8	40.0	62.3	67.9	66.9	66.8
79°	61.1	54.0	65.6	60.9	37.6	61.6	67.2	65.7	65.6
80°	60.6	55.4	64.5	60.1	35.2	60.9	65.4	64.6	64.7
81°	59.5	55.5	63.2	59.1	32.4	60.0	64.0	63.4	63.5
82°	58.6	55.5	61.7	57.7	29.3	58.5	62.5	62.2	62.4
83°	57.4	55.0	59.4	55.9	25.9	56.4	60.9	60.7	61.0
84°	56.0	54.0	56.0	52.9	22.2	53.9	59.1	59.2	59.5
85°	54.7	52.9	48.9	49.2	18.7	50.0	57.4	57.6	58.1
86°	52.7	51.4	45.2	46.1	14.9	46.3	55.5	56.1	56.6
87°	50.8	49.8	44.9	42.1	11.9	43.3	53.9	54.7	55.2
88°	49.1	48.2	44.5	37.4	9.8	40.6	52.4	53.4	53.9
89°	48.0	46.8	43.6	30.9	7.3	38.2	51.1	52.3	52.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4

(END OF REPORT)