

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: P958954

Luminaire Tested: MFO-06W-940-60-X-4F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958954
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-940-60-X-4F-UNV-STD
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 60 DEGREE OPTICS
6 WATTS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

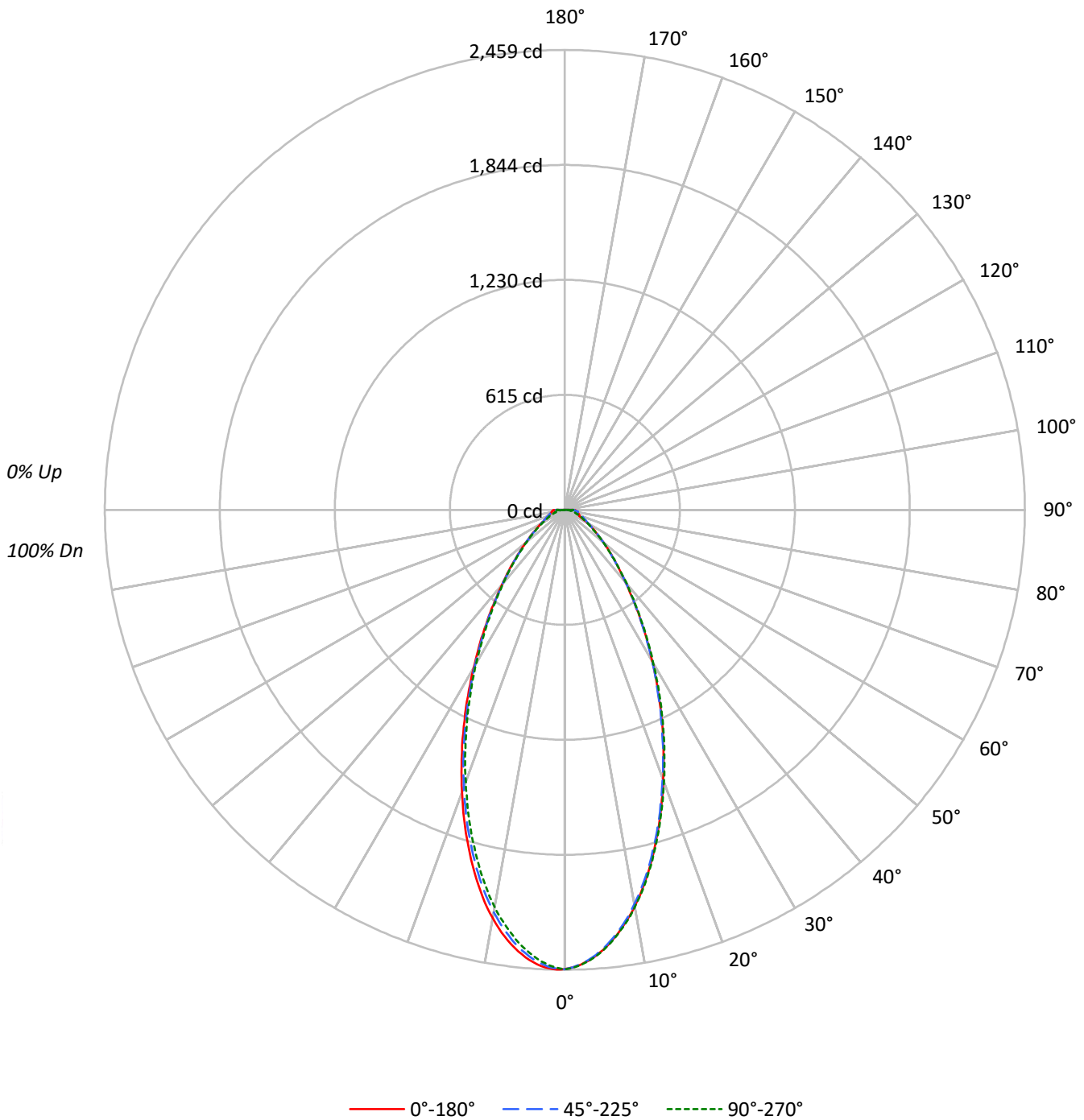
Lumens per Lamp: N/A
Luminaire Lumens: 2467.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.76 / 0.82
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 4' x H: 0.03')
CIE Type: Direct

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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50				50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	87208	87208	87208	87208	87208
5°	84083	81741	81275	82734	85568
10°	77512	73304	72417	74813	79862
15°	68257	62928	61767	64676	71004
20°	57956	52052	50789	53710	60552
25°	47675	41767	40508	43096	49900
30°	38178	32582	31257	33550	39819
35°	29941	24833	23586	25520	31092
40°	23309	18739	17564	19150	24082
45°	18360	14202	13067	14445	18824
50°	14641	10854	9735	10984	14898
55°	11928	8434	7277	8464	12081
60°	9687	6793	5555	6797	10261
65°	7583	5858	4433	5858	9474
70°	8249	5423	3642	5429	9600
75°	9845	5249	2892	5268	10751
80°	13245	5441	2383	5517	14145
85°	22858	5014	1473	5875	24240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 202479 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	8.9
10°-20°	521.5	21.1
20°-30°	566.5	23.0
30°-40°	442.6	17.9
40°-50°	289.8	11.7
50°-60°	176.5	7.2
60°-70°	111.5	4.5
70°-80°	80.0	3.2
80°-90°	59.8	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°	1307.7	53.0
0°-40°	1750.3	70.9
0°-60°	2216.6	89.8
0°-90°	2467.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2456	2456	2456	2456	2456	
5°	2361	2354	2364	2383	2403	219
15°	1861	1850	1869	1902	1936	517
25°	1222	1216	1236	1255	1279	559
35°	695	694	704	713	721	437
45°	369	368	369	374	378	288
55°	195	195	188	196	197	176
65°	92	115	100	115	115	98
75°	74	81	54	82	81	79
85°	61	55	21	64	65	66
90°	45	45	45	45	45	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2456.5	2456.5	2456.5	2456.5	2456.5	2456.5	2456.5	2456.5	2456.5
1°	2447.0	2445.8	2445.8	2446.9	2448.9	2451.6	2454.3	2457.1	2458.6
2°	2433.5	2431.1	2430.5	2431.9	2435.3	2439.8	2444.7	2449.5	2453.1
3°	2415.1	2410.8	2409.9	2411.6	2416.5	2422.7	2429.4	2436.6	2442.2
4°	2390.9	2385.7	2384.6	2387.1	2392.7	2400.1	2409.0	2418.0	2425.0
5°	2361.1	2354.8	2354.2	2357.5	2364.1	2372.7	2382.8	2393.7	2402.8
6°	2327.0	2319.3	2318.8	2323.2	2329.8	2340.0	2352.0	2363.5	2374.5
7°	2288.9	2280.3	2280.3	2284.3	2292.2	2303.5	2316.1	2329.3	2341.5
8°	2247.1	2237.4	2238.2	2242.7	2250.6	2262.6	2276.1	2290.9	2305.0
9°	2201.9	2191.6	2192.0	2196.7	2205.9	2218.7	2232.4	2248.4	2263.5
10°	2153.2	2141.1	2141.5	2147.7	2157.0	2171.0	2185.6	2201.2	2218.5
11°	2100.7	2088.0	2088.5	2095.0	2105.0	2119.2	2134.7	2150.3	2168.4
12°	2045.0	2031.7	2032.8	2039.6	2049.8	2064.3	2080.8	2096.3	2114.9
13°	1986.2	1972.9	1974.4	1981.7	1991.7	2007.3	2023.7	2039.2	2057.9
14°	1924.2	1911.8	1913.1	1921.3	1931.2	1947.4	1963.8	1979.6	1998.0
15°	1861.1	1849.2	1850.4	1860.0	1868.9	1885.8	1901.8	1917.6	1936.0
16°	1797.8	1785.0	1787.0	1797.0	1806.3	1822.7	1838.9	1854.0	1872.5
17°	1733.6	1719.7	1722.3	1732.7	1742.4	1758.5	1774.2	1788.5	1807.7
18°	1668.8	1654.1	1657.7	1667.9	1678.2	1693.7	1708.9	1722.6	1741.0
19°	1603.7	1589.3	1592.9	1603.7	1613.5	1628.5	1643.4	1656.5	1674.2
20°	1538.5	1524.8	1528.9	1539.1	1549.0	1563.1	1577.6	1590.6	1607.4
21°	1474.2	1460.9	1464.6	1475.1	1485.6	1498.0	1511.7	1524.3	1540.9
22°	1410.2	1397.7	1401.5	1411.4	1422.0	1433.5	1446.6	1458.5	1474.4
23°	1346.6	1334.7	1339.2	1348.4	1359.4	1369.6	1382.1	1393.4	1408.4
24°	1283.6	1272.2	1277.3	1286.2	1296.9	1306.4	1318.2	1328.8	1343.3
25°	1221.6	1211.4	1216.1	1224.7	1235.8	1243.9	1254.8	1265.5	1278.6
26°	1160.8	1151.7	1156.3	1164.8	1175.3	1182.8	1192.8	1203.1	1214.6
27°	1101.8	1093.9	1098.2	1106.2	1115.9	1123.4	1132.3	1141.6	1152.2
28°	1044.8	1037.5	1041.5	1048.8	1058.0	1065.1	1073.1	1081.6	1091.6
29°	989.3	982.9	986.2	993.1	1001.3	1008.9	1016.3	1023.2	1032.8
30°	935.6	930.0	933.1	939.5	946.6	954.4	960.8	967.0	975.8
31°	883.9	878.9	881.9	887.7	894.3	902.0	907.6	913.1	921.0
32°	834.0	829.2	831.8	837.3	843.7	851.1	856.1	861.0	868.2
33°	785.8	781.9	784.2	789.7	795.2	802.5	806.8	811.4	817.3
34°	739.0	736.0	738.1	743.6	748.4	755.0	759.2	763.0	768.4
35°	694.7	692.2	693.9	699.3	703.6	709.5	713.1	717.2	721.4
36°	652.6	650.6	652.3	656.8	661.3	666.3	669.5	673.2	677.1
37°	612.7	611.3	612.6	616.5	620.7	625.2	628.1	631.6	635.0
38°	575.0	573.9	575.1	578.6	582.4	586.1	589.2	592.4	595.3
39°	539.6	538.7	539.9	542.8	546.3	549.6	552.3	555.4	558.1
40°	506.3	505.6	506.6	509.2	512.0	515.2	517.7	520.6	523.1
41°	475.2	474.5	475.4	477.5	479.7	483.0	485.4	487.9	490.2
42°	446.0	445.2	445.8	447.7	449.4	452.6	455.0	457.2	459.5
43°	418.5	417.8	418.3	419.8	420.8	423.8	426.3	428.4	430.7
44°	392.8	392.0	392.4	393.7	394.1	397.0	399.4	401.5	403.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	368.6	368.0	368.1	369.0	369.1	371.9	374.4	376.4	377.9
46°	345.8	345.3	345.3	345.8	345.4	348.2	350.8	352.7	353.9
47°	324.4	324.0	324.0	323.9	323.1	326.0	328.8	330.6	331.6
48°	304.1	304.1	303.8	303.3	302.1	305.1	308.0	309.7	310.5
49°	285.2	285.2	284.9	284.3	282.6	285.5	288.6	290.1	290.7
50°	267.6	267.6	267.1	266.3	264.1	267.2	270.3	271.9	272.3
51°	250.9	251.1	250.7	249.4	246.8	250.0	253.0	254.8	255.0
52°	235.4	235.6	235.2	233.6	230.4	234.0	237.1	238.8	239.0
53°	221.1	221.2	220.7	219.1	215.3	219.2	222.3	223.9	224.2
54°	207.7	207.8	207.3	205.5	201.1	205.4	208.6	210.1	210.2
55°	194.9	195.4	194.9	192.8	187.8	192.6	195.6	197.3	197.4
56°	182.6	183.7	183.2	181.0	175.5	180.8	183.7	185.4	185.4
57°	170.8	172.8	172.5	170.3	164.1	169.9	172.8	174.4	174.4
58°	160.0	163.0	162.7	160.4	153.5	159.9	162.9	164.3	164.3
59°	149.5	153.9	153.8	151.5	143.9	150.8	153.9	155.0	154.9
60°	138.3	145.6	145.6	143.1	134.9	142.6	145.7	146.6	146.5
61°	126.9	138.0	138.0	135.6	126.7	134.9	138.1	138.9	138.9
62°	119.6	131.1	131.4	128.7	119.3	128.0	131.4	132.0	132.0
63°	108.8	125.0	125.3	122.1	112.4	121.6	125.3	125.7	125.6
64°	97.9	119.2	119.8	116.1	106.0	115.9	119.8	120.0	120.0
65°	91.8	114.1	114.8	110.9	100.1	110.6	114.8	114.8	114.7
66°	87.8	109.3	110.4	105.9	94.5	105.6	110.2	110.2	110.0
67°	84.5	105.0	106.3	101.3	89.4	101.0	106.1	106.0	105.8
68°	82.7	101.0	102.5	97.0	84.5	96.9	102.3	102.0	101.7
69°	80.8	97.4	99.0	93.5	79.9	93.1	98.8	98.3	98.1
70°	81.2	94.0	95.5	89.9	75.4	89.2	95.6	94.9	94.5
71°	81.0	90.8	92.3	86.3	70.9	85.9	92.4	91.7	91.3
72°	80.1	87.7	89.2	83.0	66.4	82.6	89.5	88.6	88.2
73°	78.1	84.1	86.4	79.8	62.1	79.5	86.7	85.7	85.3
74°	76.0	79.2	83.7	76.8	57.9	76.7	84.0	83.0	83.0
75°	73.9	73.1	81.3	74.3	54.0	74.3	81.6	80.7	80.7
76°	72.1	66.4	79.0	72.1	50.6	72.3	79.4	78.6	78.0
77°	70.4	62.2	76.8	70.4	47.5	70.7	77.5	76.4	76.0
78°	69.1	60.2	75.0	69.1	44.7	69.6	75.9	74.8	74.6
79°	68.4	60.4	73.4	68.1	42.0	68.9	75.2	73.5	73.4
80°	67.7	62.0	72.1	67.2	39.3	68.1	73.1	72.2	72.3
81°	66.6	62.1	70.7	66.1	36.2	67.1	71.6	70.9	71.1
82°	65.5	62.1	69.0	64.5	32.8	65.4	69.9	69.5	69.8
83°	64.1	61.5	66.4	62.5	28.9	63.1	68.1	67.9	68.2
84°	62.6	60.4	62.6	59.1	24.8	60.3	66.1	66.2	66.6
85°	61.2	59.1	54.7	55.1	20.9	55.9	64.1	64.4	64.9
86°	58.9	57.5	50.6	51.6	16.6	51.7	62.1	62.7	63.2
87°	56.8	55.7	50.2	47.1	13.3	48.4	60.3	61.2	61.7
88°	54.9	53.9	49.8	41.9	11.0	45.4	58.6	59.7	60.3
89°	53.6	52.4	48.8	34.6	8.2	42.8	57.1	58.5	59.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2

(END OF REPORT)