

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: P958924

Luminaire Tested: MFO-06W-927-20-X-4F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958924
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-927-20-X-4F-UNV-STD
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 20 DEGREE OPTICS
6 WATTS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

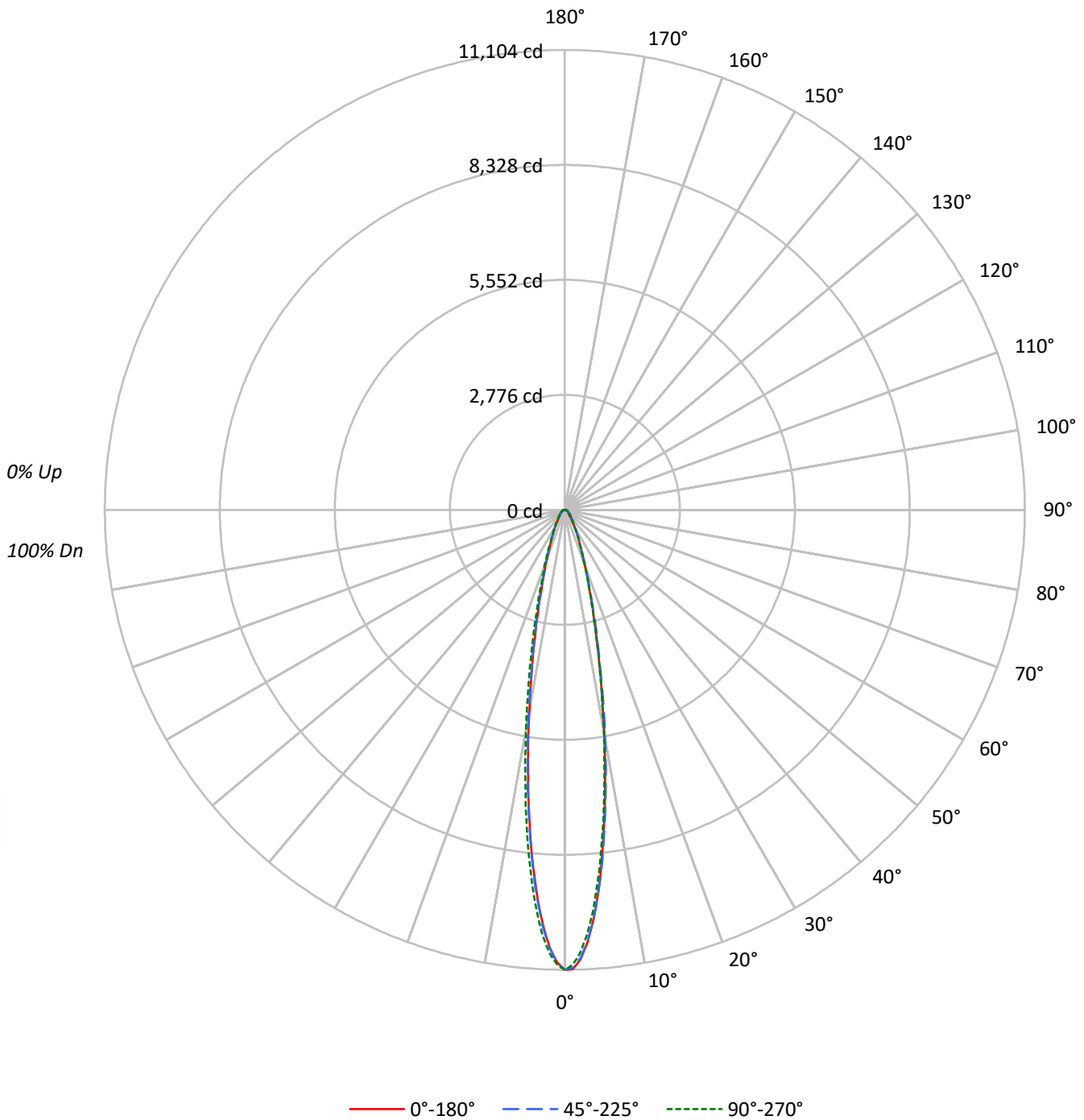
Lumens per Lamp: N/A
Luminaire Lumens: 2439.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.33 / 0.36
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 4' x H: 0.03')
CIE Type: Direct

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	100	100	
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87	87	87	87	
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82	82	82	82	
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78	78	78	78	
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74	74	74	74	
6	91	83	78	74	90	82	77	74	81	76	73	80	76	73	78	75	72	71	71	71	71	
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68	
8	85	76	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65	
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	63	63	63	63	
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61	61	61	61	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	394221	394221	394221	394221	394221
5°	329841	322710	311565	303846	309792
10°	196083	191250	180972	171414	177573
15°	99570	96024	90206	85111	90027
20°	52004	48729	45533	43687	47394
25°	30144	27280	25341	24739	27600
30°	18681	17173	15840	15734	18085
35°	12262	11910	10922	11033	13051
40°	8512	8856	8069	8290	10110
45°	6769	6964	6255	6582	8299
50°	6390	5726	5053	5470	7217
55°	6181	4885	4228	4712	6598
60°	5960	4292	3599	4171	6234
65°	5823	3827	3065	3735	6030
70°	5740	3384	2521	3316	5933
75°	6035	2963	1918	2912	6062
80°	6848	2589	1340	2581	6887
85°	10607	2154	796	2456	10682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 88249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.9	30.2
10°-20°	760.2	31.2
20°-30°	362.4	14.9
30°-40°	203.4	8.3
40°-50°	135.1	5.5
50°-60°	98.8	4.0
60°-70°	71.6	2.9
70°-80°	45.7	1.9
80°-90°	26.5	1.1
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°	1858.5	76.2
0°-40°	2061.9	84.5
0°-60°	2295.8	94.1
0°-90°	2439.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11104	11104	11104	11104	11104	
5°	9262	9294	9063	8751	8699	755
15°	2715	2824	2729	2503	2455	777
25°	772	794	773	720	707	368
35°	284	333	326	308	303	182
45°	136	180	177	171	167	108
55°	101	113	109	109	108	90
65°	70	75	69	73	73	70
75°	45	46	36	45	46	48
85°	28	24	11	27	29	31
90°	20	20	20	20	20	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11104.5	11104.5	11104.5	11104.5	11104.5	11104.5	11104.5	11104.5	11104.5
1°	11087.1	11076.1	11053.1	11018.9	10979.6	10944.2	10921.3	10913.5	10921.7
2°	10858.2	10854.8	10826.4	10771.6	10699.7	10628.8	10574.7	10551.6	10560.8
3°	10461.7	10470.3	10442.5	10372.1	10271.1	10163.1	10077.9	10038.4	10051.0
4°	9918.9	9943.6	9922.5	9842.0	9715.2	9573.7	9458.4	9402.8	9417.4
5°	9262.1	9303.3	9294.3	9209.3	9062.7	8893.3	8751.0	8680.7	8699.1
6°	8526.2	8584.6	8587.7	8503.8	8344.1	8151.4	7988.8	7907.3	7927.5
7°	7746.4	7819.9	7836.9	7757.7	7592.9	7388.0	7208.9	7119.1	7139.6
8°	6954.6	7040.5	7068.8	6997.2	6833.7	6623.8	6437.1	6342.3	6362.7
9°	6181.9	6274.2	6312.3	6249.8	6094.1	5886.8	5697.4	5601.7	5622.2
10°	5447.0	5542.7	5587.2	5533.9	5390.4	5191.4	5007.7	4914.0	4932.8
11°	4768.6	4862.9	4912.1	4868.2	4736.9	4551.7	4377.8	4288.9	4306.4
12°	4154.1	4242.9	4292.6	4257.3	4140.3	3972.5	3812.9	3730.8	3746.2
13°	3608.7	3692.5	3740.9	3711.1	3609.3	3458.9	3315.5	3241.0	3254.3
14°	3130.6	3206.4	3251.6	3227.1	3139.5	3007.2	2880.0	2814.0	2825.6
15°	2714.9	2782.5	2823.6	2803.6	2729.4	2614.4	2502.7	2444.5	2454.7
16°	2357.8	2417.7	2453.9	2436.7	2374.1	2274.9	2177.8	2126.1	2135.5
17°	2052.9	2104.8	2136.0	2121.1	2068.2	1983.2	1899.8	1854.4	1862.8
18°	1791.8	1836.5	1862.8	1849.9	1805.0	1732.5	1661.5	1621.3	1628.6
19°	1570.0	1609.4	1630.4	1618.5	1580.7	1518.8	1458.2	1422.9	1429.2
20°	1380.5	1414.4	1431.3	1420.5	1388.7	1335.8	1283.2	1252.9	1258.1
21°	1218.6	1248.3	1261.4	1252.0	1225.1	1179.2	1133.9	1107.7	1111.8
22°	1080.5	1106.8	1116.0	1107.7	1084.8	1044.6	1005.4	983.3	986.5
23°	961.8	984.7	991.7	984.7	964.7	929.6	895.4	877.1	878.8
24°	859.9	880.4	885.2	879.1	861.3	830.7	800.8	785.7	786.3
25°	772.4	791.2	794.3	788.5	773.1	746.2	720.3	707.6	707.2
26°	695.7	714.2	715.3	710.2	696.7	673.2	650.5	639.6	638.5
27°	629.1	647.4	647.4	642.4	630.9	610.1	590.1	580.5	579.4
28°	569.1	589.4	588.2	583.5	573.5	555.2	537.6	528.9	527.9
29°	510.8	538.9	536.9	532.1	523.6	507.4	491.4	483.6	482.7
30°	457.8	494.1	491.8	487.2	479.7	465.2	450.6	443.6	443.2
31°	412.8	454.6	452.2	447.9	441.0	428.1	414.9	408.5	408.1
32°	372.2	419.6	417.2	413.2	406.9	395.2	383.5	377.4	377.2
33°	340.8	388.6	385.9	382.7	376.8	366.2	355.7	349.9	349.6
34°	311.8	360.7	357.8	355.2	349.8	340.1	330.7	325.4	325.0
35°	284.5	335.5	332.8	330.5	325.8	316.7	308.3	303.4	302.8
36°	258.3	313.0	310.3	308.3	303.9	295.8	288.1	283.4	282.9
37°	237.6	292.4	290.0	288.0	284.5	276.8	269.9	265.4	264.8
38°	217.2	273.7	271.4	269.6	266.6	259.6	253.2	248.8	248.2
39°	199.8	256.8	254.7	253.0	250.1	244.0	238.0	233.8	233.2
40°	184.9	241.3	239.4	237.8	235.2	229.5	224.1	220.1	219.6
41°	172.7	227.3	225.4	224.2	221.3	216.4	211.4	207.5	207.1
42°	162.0	214.3	212.7	211.7	208.6	204.1	199.8	195.9	195.6
43°	151.3	202.3	201.2	200.3	197.0	193.2	189.3	185.4	185.0
44°	142.6	191.4	190.4	189.7	186.4	182.9	179.5	175.7	175.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	135.9	181.3	180.5	179.9	176.7	173.6	170.6	166.7	166.6
46°	130.5	171.9	171.3	170.7	167.6	164.9	162.4	158.4	158.6
47°	125.0	163.1	162.8	162.3	159.2	156.9	154.6	150.8	151.0
48°	120.2	154.9	154.9	154.4	151.3	149.4	147.5	143.7	144.2
49°	118.7	147.5	147.6	147.0	144.0	142.5	140.7	137.2	137.8
50°	116.8	140.5	140.9	140.2	137.1	135.9	134.6	131.3	131.9
51°	113.9	134.1	134.6	133.9	130.8	129.9	128.6	125.6	126.4
52°	110.5	128.0	128.6	127.9	124.8	124.3	123.2	120.4	121.3
53°	107.3	122.4	123.0	122.6	119.2	119.1	118.1	115.6	116.5
54°	104.2	117.2	117.9	117.4	114.0	114.3	113.4	111.0	112.0
55°	101.0	112.3	112.9	112.5	109.1	109.7	108.9	106.6	107.8
56°	97.6	107.7	108.3	107.9	104.2	105.3	104.6	102.6	103.7
57°	94.6	103.3	103.9	103.4	99.8	101.2	100.6	98.9	99.8
58°	91.3	99.3	99.8	99.2	95.4	97.2	96.7	95.2	96.1
59°	88.0	95.3	95.9	95.2	91.4	93.1	92.9	91.8	92.5
60°	85.1	91.4	92.0	91.2	87.4	89.5	89.4	88.5	89.0
61°	82.2	87.8	88.6	87.5	83.8	85.8	86.1	85.4	85.7
62°	79.1	83.9	85.0	83.9	80.0	82.3	82.7	82.2	82.4
63°	76.0	80.0	81.6	80.2	76.4	78.8	79.4	79.1	79.2
64°	73.2	75.3	78.3	76.7	72.8	75.4	76.3	76.1	76.1
65°	70.5	70.0	75.0	73.2	69.2	72.0	73.2	73.1	73.0
66°	67.7	64.4	71.7	69.8	65.8	68.7	70.1	70.3	70.0
67°	64.7	59.6	68.7	66.5	62.3	65.5	67.1	67.3	67.1
68°	61.9	56.1	65.6	63.2	58.9	62.3	64.1	64.4	64.1
69°	59.2	52.6	62.6	59.8	55.5	59.0	61.2	61.6	61.2
70°	56.5	50.1	59.6	56.6	52.2	56.0	58.4	58.8	58.4
71°	54.0	47.5	56.8	53.6	48.9	52.9	55.6	56.1	55.6
72°	51.6	46.1	53.9	50.5	45.5	49.9	52.9	53.4	53.0
73°	49.5	45.3	51.2	47.5	42.3	47.0	50.1	50.8	50.3
74°	47.6	43.8	48.4	44.6	39.0	44.3	47.5	48.2	47.8
75°	45.3	41.9	45.9	41.9	35.8	41.5	45.1	45.8	45.5
76°	43.0	40.4	43.4	39.4	32.7	39.0	42.6	43.4	43.1
77°	41.0	39.0	41.0	36.8	29.9	36.6	40.3	41.2	41.0
78°	38.9	37.5	38.8	34.6	27.1	34.3	38.1	39.0	38.9
79°	37.0	35.8	36.6	32.5	24.5	32.3	36.2	37.1	37.0
80°	35.0	34.1	34.3	30.6	22.1	30.3	34.2	35.1	35.2
81°	33.4	32.4	31.5	28.6	19.7	28.5	32.4	33.5	33.6
82°	31.9	31.1	27.7	26.8	17.4	26.5	30.8	31.9	32.2
83°	30.6	29.8	24.8	24.9	15.2	24.7	29.3	30.6	30.9
84°	29.3	28.7	23.8	23.2	13.3	23.1	27.9	29.4	29.6
85°	28.4	27.8	23.5	21.6	11.3	21.5	26.8	28.4	28.6
86°	27.5	26.9	23.1	20.3	9.6	20.1	25.7	27.3	27.7
87°	26.7	26.2	22.8	19.0	8.0	18.8	24.8	26.4	26.8
88°	26.0	25.5	22.4	17.9	6.4	17.6	24.0	25.9	26.1
89°	25.5	25.1	22.1	15.0	4.7	16.6	23.3	25.3	25.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7

(END OF REPORT)