

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: P958937

Luminaire Tested: MFO-06W-930-60-X-1F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958937
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-930-60-X-1F-UNV-STD
Description: iO LED MiniO-FLEX LINEAR LIGHTING WITH 60 DEGREE OPTICS. INPUT WATTAGE IN IES FILE REPRESENTS CONSUMPTION IN A RUN, INDIVIDUAL FIXTURE MAY VARY.
6 WATTS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

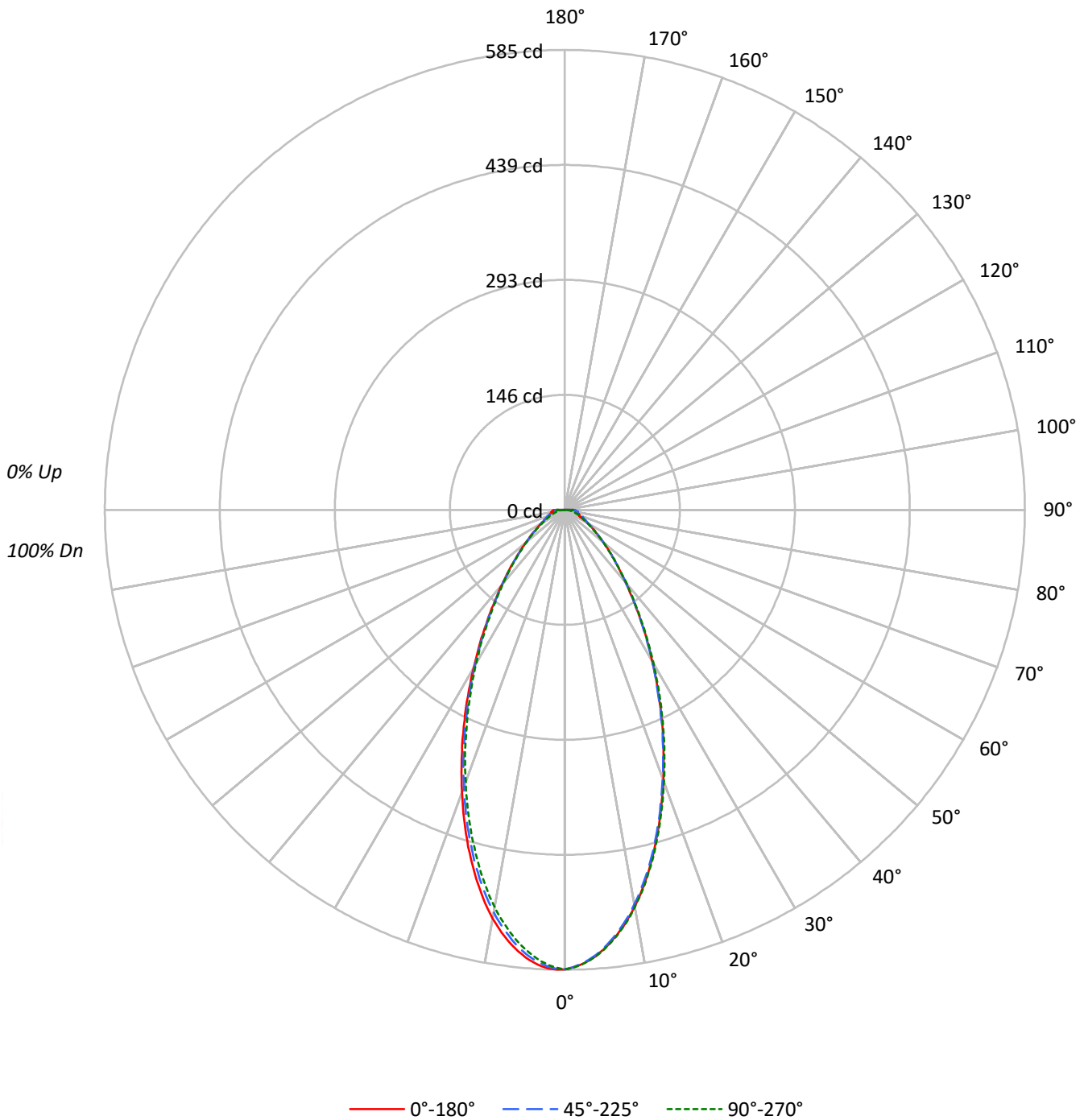
Lumens per Lamp: N/A
Luminaire Lumens: 587.2 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.76 / 0.82
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 1' x H: 0.03')
CIE Type: Direct

Input Watts (W): 5.7
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°	83001	83001	83001	83001	83001
5°	79861	77692	77352	78635	81268
10°	73460	69579	68932	70999	75697
15°	64564	59646	58789	61298	67159
20°	54693	49271	48343	50842	57143
25°	44885	39487	38561	40742	46969
30°	35844	30753	29758	31668	37390
35°	28033	23407	22447	24059	29119
40°	21759	17631	16713	18026	22481
45°	17071	13346	12433	13575	17499
50°	13560	10172	9259	10300	13794
55°	10990	7899	6929	7916	11132
60°	8858	6336	5287	6354	9396
65°	6859	5453	4216	5453	8589
70°	7371	5029	3458	5051	8593
75°	8635	4841	2764	4866	9420
80°	11160	5016	2280	5074	11922
85°	17461	4569	1409	5377	18418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 48380 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	8.9
10°-20°	124.1	21.1
20°-30°	134.8	23.0
30°-40°	105.3	17.9
40°-50°	69.0	11.7
50°-60°	42.0	7.2
60°-70°	26.5	4.5
70°-80°	19.0	3.2
80°-90°	14.2	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°	311.2	53.0
0°-40°	416.5	70.9
0°-60°	527.4	89.8
0°-90°	587.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	584	584	584	584	584	
5°	562	560	562	567	572	52
15°	443	440	445	452	461	123
25°	291	289	294	299	304	133
35°	165	165	167	170	172	104
45°	88	88	88	89	90	68
55°	46	46	45	46	47	42
65°	22	27	24	27	27	23
75°	18	19	13	19	19	19
85°	15	13	5	15	15	16
90°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5
1°	582.3	582.0	582.0	582.2	582.7	583.4	584.0	584.7	585.0
2°	579.1	578.5	578.3	578.7	579.5	580.6	581.7	582.9	583.7
3°	574.7	573.6	573.4	573.8	575.0	576.5	578.1	579.8	581.1
4°	568.9	567.7	567.4	568.0	569.3	571.1	573.2	575.4	577.0
5°	561.8	560.3	560.2	561.0	562.5	564.6	567.0	569.6	571.7
6°	553.7	551.9	551.8	552.8	554.4	556.8	559.7	562.4	565.0
7°	544.6	542.6	542.6	543.5	545.4	548.1	551.1	554.3	557.2
8°	534.7	532.4	532.6	533.6	535.5	538.4	541.6	545.1	548.5
9°	523.9	521.5	521.6	522.7	524.9	527.9	531.2	535.0	538.6
10°	512.3	509.5	509.6	511.0	513.3	516.6	520.0	523.8	527.9
11°	499.9	496.8	497.0	498.5	500.9	504.3	508.0	511.7	516.0
12°	486.6	483.4	483.7	485.3	487.8	491.2	495.1	498.8	503.2
13°	472.6	469.4	469.8	471.6	473.9	477.6	481.5	485.2	489.7
14°	457.9	454.9	455.2	457.2	459.5	463.4	467.3	471.0	475.4
15°	442.9	440.0	440.3	442.6	444.7	448.7	452.5	456.3	460.7
16°	427.8	424.7	425.2	427.6	429.8	433.7	437.6	441.1	445.6
17°	412.5	409.2	409.8	412.3	414.6	418.4	422.2	425.6	430.2
18°	397.1	393.6	394.4	396.9	399.3	403.0	406.6	409.9	414.3
19°	381.6	378.2	379.0	381.6	383.9	387.5	391.0	394.2	398.4
20°	366.1	362.8	363.8	366.2	368.6	371.9	375.4	378.5	382.5
21°	350.8	347.6	348.5	351.0	353.5	356.5	359.7	362.7	366.7
22°	335.6	332.6	333.5	335.8	338.4	341.1	344.2	347.0	350.8
23°	320.4	317.6	318.7	320.8	323.5	325.9	328.9	331.6	335.1
24°	305.4	302.7	303.9	306.0	308.6	310.9	313.7	316.2	319.6
25°	290.7	288.2	289.4	291.4	294.1	296.0	298.6	301.1	304.2
26°	276.2	274.1	275.2	277.2	279.7	281.5	283.8	286.3	289.0
27°	262.2	260.3	261.3	263.2	265.5	267.3	269.4	271.6	274.2
28°	248.6	246.9	247.8	249.6	251.8	253.4	255.3	257.4	259.7
29°	235.4	233.9	234.7	236.3	238.3	240.1	241.8	243.5	245.8
30°	222.6	221.3	222.0	223.5	225.3	227.1	228.6	230.1	232.2
31°	210.3	209.1	209.8	211.2	212.8	214.6	216.0	217.3	219.2
32°	198.4	197.3	197.9	199.2	200.8	202.5	203.7	204.9	206.6
33°	187.0	186.0	186.6	187.9	189.2	190.9	192.0	193.1	194.5
34°	175.8	175.1	175.6	176.9	178.1	179.6	180.7	181.6	182.8
35°	165.3	164.7	165.1	166.4	167.4	168.8	169.7	170.7	171.7
36°	155.3	154.8	155.2	156.3	157.3	158.5	159.3	160.2	161.1
37°	145.8	145.5	145.8	146.7	147.7	148.8	149.5	150.3	151.1
38°	136.8	136.6	136.8	137.7	138.6	139.5	140.2	141.0	141.7
39°	128.4	128.2	128.5	129.2	130.0	130.8	131.4	132.2	132.8
40°	120.5	120.3	120.5	121.2	121.8	122.6	123.2	123.9	124.5
41°	113.1	112.9	113.1	113.6	114.1	114.9	115.5	116.1	116.6
42°	106.1	105.9	106.1	106.5	106.9	107.7	108.3	108.8	109.3
43°	99.6	99.4	99.5	99.9	100.1	100.8	101.4	101.9	102.5
44°	93.5	93.3	93.4	93.7	93.8	94.5	95.0	95.5	96.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	87.7	87.6	87.6	87.8	87.8	88.5	89.1	89.6	89.9
46°	82.3	82.2	82.2	82.3	82.2	82.9	83.5	83.9	84.2
47°	77.2	77.1	77.1	77.1	76.9	77.6	78.2	78.7	78.9
48°	72.4	72.4	72.3	72.2	71.9	72.6	73.3	73.7	73.9
49°	67.9	67.9	67.8	67.7	67.2	67.9	68.7	69.0	69.2
50°	63.7	63.7	63.5	63.4	62.8	63.6	64.3	64.7	64.8
51°	59.7	59.7	59.6	59.3	58.7	59.5	60.2	60.6	60.7
52°	56.0	56.1	56.0	55.6	54.8	55.7	56.4	56.8	56.9
53°	52.6	52.6	52.5	52.1	51.2	52.2	52.9	53.3	53.3
54°	49.4	49.4	49.3	48.9	47.9	48.9	49.6	50.0	50.0
55°	46.4	46.5	46.4	45.9	44.7	45.8	46.5	46.9	47.0
56°	43.4	43.7	43.6	43.1	41.8	43.0	43.7	44.1	44.1
57°	40.6	41.1	41.0	40.5	39.1	40.4	41.1	41.5	41.5
58°	38.1	38.8	38.7	38.2	36.5	38.0	38.8	39.1	39.1
59°	35.6	36.6	36.6	36.0	34.2	35.9	36.6	36.9	36.9
60°	32.9	34.6	34.6	34.1	32.1	33.9	34.7	34.9	34.9
61°	30.2	32.8	32.8	32.3	30.2	32.1	32.9	33.1	33.1
62°	28.5	31.2	31.3	30.6	28.4	30.5	31.3	31.4	31.4
63°	25.9	29.7	29.8	29.1	26.7	28.9	29.8	29.9	29.9
64°	23.3	28.4	28.5	27.6	25.2	27.6	28.5	28.5	28.5
65°	21.8	27.1	27.3	26.4	23.8	26.3	27.3	27.3	27.3
66°	20.9	26.0	26.3	25.2	22.5	25.1	26.2	26.2	26.2
67°	20.1	25.0	25.3	24.1	21.3	24.0	25.3	25.2	25.2
68°	19.7	24.0	24.4	23.1	20.1	23.1	24.3	24.3	24.2
69°	19.2	23.2	23.5	22.2	19.0	22.1	23.5	23.4	23.3
70°	19.3	22.4	22.7	21.4	17.9	21.2	22.8	22.6	22.5
71°	19.3	21.6	22.0	20.5	16.9	20.4	22.0	21.8	21.7
72°	19.1	20.9	21.2	19.7	15.8	19.6	21.3	21.1	21.0
73°	18.6	20.0	20.6	19.0	14.8	18.9	20.6	20.4	20.3
74°	18.1	18.9	19.9	18.3	13.8	18.2	20.0	19.7	19.7
75°	17.6	17.4	19.3	17.7	12.9	17.7	19.4	19.2	19.2
76°	17.2	15.8	18.8	17.2	12.0	17.2	18.9	18.7	18.6
77°	16.8	14.8	18.3	16.8	11.3	16.8	18.4	18.2	18.1
78°	16.5	14.3	17.9	16.5	10.6	16.6	18.1	17.8	17.8
79°	16.3	14.4	17.5	16.2	10.0	16.4	17.9	17.5	17.5
80°	16.1	14.7	17.2	16.0	9.4	16.2	17.4	17.2	17.2
81°	15.8	14.8	16.8	15.7	8.6	16.0	17.0	16.9	16.9
82°	15.6	14.8	16.4	15.4	7.8	15.6	16.6	16.5	16.6
83°	15.3	14.6	15.8	14.9	6.9	15.0	16.2	16.1	16.2
84°	14.9	14.4	14.9	14.1	5.9	14.3	15.7	15.7	15.8
85°	14.6	14.1	13.0	13.1	5.0	13.3	15.3	15.3	15.4
86°	14.0	13.7	12.0	12.3	4.0	12.3	14.8	14.9	15.0
87°	13.5	13.3	11.9	11.2	3.2	11.5	14.3	14.6	14.7
88°	13.1	12.8	11.9	10.0	2.6	10.8	14.0	14.2	14.3
89°	12.8	12.5	11.6	8.2	1.9	10.2	13.6	13.9	14.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

(END OF REPORT)