

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: P958953

Luminaire Tested: MFO-06W-940-60-X-1F-UNV-STD

Issue Date: 2/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P958953
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-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

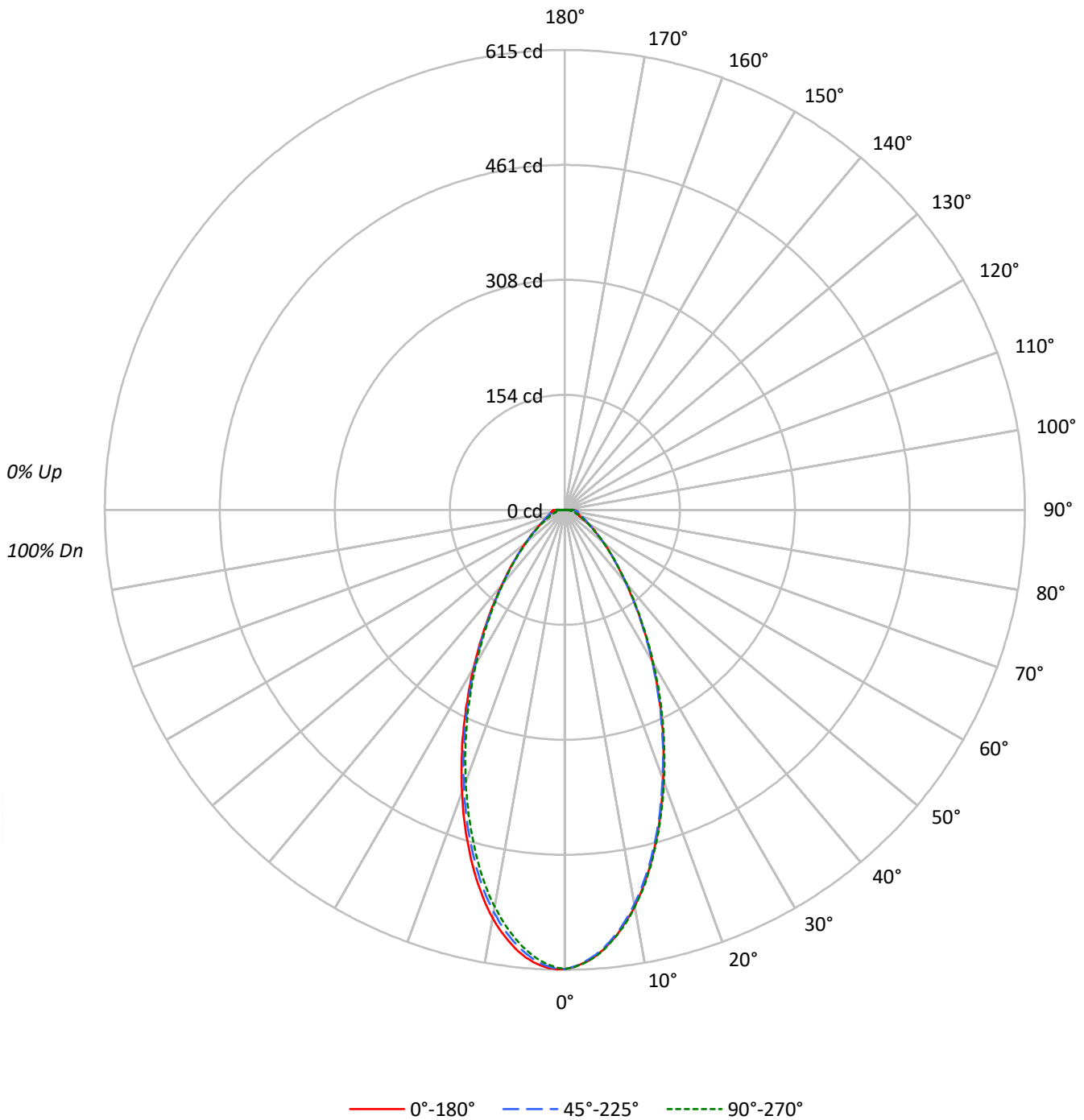
Lumens per Lamp: N/A
Luminaire Lumens: 617.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.76 / 0.82
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 1' x H: 0.03')
CIE Type: Direct

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



TEST NUMBER: P958953
CATALOG NUMBER: MFO-06W-940-60-X-1F-UNV-STD

Luminous Intensity Polar Plot





TEST NUMBER: P958953

CATALOG NUMBER: MFO-06W-940-60-X-1F-UNV-STD

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°	87205	87205	87205	87205	87205
5°	83913	81617	81271	82616	85391
10°	77189	73101	72424	74603	79526
15°	67829	62667	61764	64414	70555
20°	57457	51763	50796	53416	60027
25°	47154	41479	40515	42802	49362
30°	37664	32319	31264	33275	39290
35°	29458	24598	23586	25278	30594
40°	22860	18538	17564	18933	23619
45°	17928	14017	13070	14260	18395
50°	14241	10700	9731	10829	14497
55°	11535	8290	7285	8324	11701
60°	9315	6665	5551	6665	9854
65°	7205	5733	4429	5733	9030
70°	7753	5295	3652	5295	9014
75°	9076	5092	2892	5117	9910
80°	11714	5249	2377	5337	12546
85°	18298	4815	1466	5623	19375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 50620 cd/sqm



TEST NUMBER: P958953

CATALOG NUMBER: MFO-06W-940-60-X-1F-UNV-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	8.9
10°-20°	130.4	21.1
20°-30°	141.6	23.0
30°-40°	110.6	17.9
40°-50°	72.5	11.7
50°-60°	44.1	7.2
60°-70°	27.9	4.5
70°-80°	20.0	3.2
80°-90°	15.0	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°	326.9	53.0
0°-40°	437.6	70.9
0°-60°	554.1	89.8
0°-90°	617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	614	614	614	614	614	
5°	590	588	591	596	601	55
15°	465	463	467	476	484	129
25°	305	304	309	314	320	140
35°	174	174	176	178	180	109
45°	92	92	92	94	94	72
55°	49	49	47	49	49	44
65°	23	29	25	29	29	24
75°	18	20	14	20	20	20
85°	15	14	5	16	16	16
90°	11	11	11	11	11	



TEST NUMBER: P958953

CATALOG NUMBER: MFO-06W-940-60-X-1F-UNV-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
1°	611.7	611.5	611.5	611.7	612.2	612.9	613.6	614.3	614.7
2°	608.4	607.8	607.6	608.0	608.8	610.0	611.2	612.4	613.3
3°	603.8	602.7	602.5	602.9	604.1	605.7	607.4	609.2	610.6
4°	597.7	596.4	596.2	596.8	598.2	600.0	602.2	604.5	606.2
5°	590.3	588.7	588.5	589.4	591.0	593.2	595.7	598.4	600.7
6°	581.8	579.8	579.7	580.8	582.5	585.0	588.0	590.9	593.6
7°	572.2	570.1	570.1	571.1	573.0	575.9	579.0	582.3	585.4
8°	561.8	559.4	559.5	560.7	562.6	565.7	569.0	572.7	576.3
9°	550.5	547.9	548.0	549.2	551.5	554.7	558.1	562.1	565.9
10°	538.3	535.3	535.4	536.9	539.3	542.7	546.4	550.3	554.6
11°	525.2	522.0	522.1	523.8	526.3	529.8	533.7	537.6	542.1
12°	511.2	507.9	508.2	509.9	512.5	516.1	520.2	524.1	528.7
13°	496.6	493.2	493.6	495.4	497.9	501.8	505.9	509.8	514.5
14°	481.1	478.0	478.3	480.3	482.8	486.9	491.0	494.9	499.5
15°	465.3	462.3	462.6	465.0	467.2	471.5	475.5	479.4	484.0
16°	449.4	446.2	446.8	449.2	451.6	455.7	459.7	463.5	468.1
17°	433.4	429.9	430.6	433.2	435.6	439.6	443.6	447.1	451.9
18°	417.2	413.5	414.4	417.0	419.5	423.4	427.2	430.7	435.3
19°	400.9	397.3	398.2	400.9	403.4	407.1	410.8	414.1	418.6
20°	384.6	381.2	382.2	384.8	387.3	390.8	394.4	397.7	401.8
21°	368.6	365.2	366.2	368.8	371.4	374.5	377.9	381.1	385.2
22°	352.6	349.4	350.4	352.8	355.5	358.4	361.6	364.6	368.6
23°	336.6	333.7	334.8	337.1	339.8	342.4	345.5	348.4	352.1
24°	320.9	318.1	319.3	321.5	324.2	326.6	329.5	332.2	335.8
25°	305.4	302.8	304.0	306.2	309.0	311.0	313.7	316.4	319.7
26°	290.2	287.9	289.1	291.2	293.8	295.7	298.2	300.8	303.6
27°	275.5	273.5	274.6	276.5	279.0	280.9	283.1	285.4	288.1
28°	261.2	259.4	260.4	262.2	264.5	266.3	268.3	270.4	272.9
29°	247.3	245.7	246.5	248.3	250.3	252.2	254.1	255.8	258.2
30°	233.9	232.5	233.3	234.9	236.7	238.6	240.2	241.7	244.0
31°	221.0	219.7	220.5	221.9	223.6	225.5	226.9	228.3	230.3
32°	208.5	207.3	207.9	209.3	210.9	212.8	214.0	215.2	217.0
33°	196.5	195.5	196.0	197.4	198.8	200.6	201.7	202.9	204.3
34°	184.7	184.0	184.5	185.9	187.1	188.7	189.8	190.8	192.1
35°	173.7	173.1	173.5	174.8	175.9	177.4	178.3	179.3	180.4
36°	163.1	162.7	163.1	164.2	165.3	166.6	167.4	168.3	169.3
37°	153.2	152.8	153.2	154.1	155.2	156.3	157.0	157.9	158.8
38°	143.7	143.5	143.8	144.6	145.6	146.5	147.3	148.1	148.8
39°	134.9	134.7	135.0	135.7	136.6	137.4	138.1	138.8	139.5
40°	126.6	126.4	126.7	127.3	128.0	128.8	129.4	130.1	130.8
41°	118.8	118.6	118.8	119.4	119.9	120.8	121.3	122.0	122.6
42°	111.5	111.3	111.4	111.9	112.3	113.1	113.8	114.3	114.9
43°	104.6	104.4	104.6	105.0	105.2	105.9	106.6	107.1	107.7
44°	98.2	98.0	98.1	98.4	98.5	99.3	99.9	100.4	100.9



TEST NUMBER: P958953

CATALOG NUMBER: MFO-06W-940-60-X-1F-UNV-STD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
45°	92.1	92.0	92.0	92.2	92.3	93.0	93.6	94.1	94.5
46°	86.5	86.3	86.3	86.5	86.4	87.1	87.7	88.2	88.5
47°	81.1	81.0	81.0	81.0	80.8	81.5	82.2	82.6	82.9
48°	76.0	76.0	76.0	75.8	75.5	76.3	77.0	77.4	77.6
49°	71.3	71.3	71.2	71.1	70.6	71.4	72.1	72.5	72.7
50°	66.9	66.9	66.8	66.6	66.0	66.8	67.6	68.0	68.1
51°	62.7	62.8	62.7	62.3	61.7	62.5	63.2	63.7	63.8
52°	58.9	58.9	58.8	58.4	57.6	58.5	59.3	59.7	59.8
53°	55.3	55.3	55.2	54.8	53.8	54.8	55.6	56.0	56.0
54°	51.9	51.9	51.8	51.4	50.3	51.3	52.1	52.5	52.6
55°	48.7	48.8	48.7	48.2	47.0	48.1	48.9	49.3	49.4
56°	45.6	45.9	45.8	45.3	43.9	45.2	45.9	46.3	46.3
57°	42.7	43.2	43.1	42.6	41.0	42.5	43.2	43.6	43.6
58°	40.0	40.7	40.7	40.1	38.4	40.0	40.7	41.1	41.1
59°	37.4	38.5	38.4	37.9	36.0	37.7	38.5	38.8	38.7
60°	34.6	36.4	36.4	35.8	33.7	35.7	36.4	36.6	36.6
61°	31.7	34.5	34.5	33.9	31.7	33.7	34.5	34.7	34.7
62°	29.9	32.8	32.8	32.2	29.8	32.0	32.8	33.0	33.0
63°	27.2	31.2	31.3	30.5	28.1	30.4	31.3	31.4	31.4
64°	24.5	29.8	30.0	29.0	26.5	29.0	30.0	30.0	30.0
65°	22.9	28.5	28.7	27.7	25.0	27.7	28.7	28.7	28.7
66°	22.0	27.3	27.6	26.5	23.6	26.4	27.6	27.6	27.5
67°	21.1	26.2	26.6	25.3	22.3	25.3	26.5	26.5	26.4
68°	20.7	25.3	25.6	24.3	21.1	24.2	25.6	25.5	25.4
69°	20.2	24.4	24.7	23.4	20.0	23.3	24.7	24.6	24.5
70°	20.3	23.5	23.9	22.5	18.9	22.3	23.9	23.7	23.6
71°	20.3	22.7	23.1	21.6	17.7	21.5	23.1	22.9	22.8
72°	20.0	21.9	22.3	20.7	16.6	20.6	22.4	22.1	22.1
73°	19.5	21.0	21.6	19.9	15.5	19.9	21.7	21.4	21.3
74°	19.0	19.8	20.9	19.2	14.5	19.2	21.0	20.7	20.7
75°	18.5	18.3	20.3	18.6	13.5	18.6	20.4	20.2	20.2
76°	18.0	16.6	19.7	18.0	12.6	18.1	19.8	19.7	19.5
77°	17.6	15.6	19.2	17.6	11.9	17.7	19.4	19.1	19.0
78°	17.3	15.0	18.8	17.3	11.2	17.4	19.0	18.7	18.7
79°	17.1	15.1	18.3	17.0	10.5	17.2	18.8	18.4	18.3
80°	16.9	15.5	18.0	16.8	9.8	17.0	18.3	18.1	18.1
81°	16.6	15.5	17.7	16.5	9.1	16.8	17.9	17.7	17.8
82°	16.4	15.5	17.3	16.1	8.2	16.4	17.5	17.4	17.4
83°	16.0	15.4	16.6	15.6	7.2	15.8	17.0	17.0	17.1
84°	15.7	15.1	15.7	14.8	6.2	15.1	16.5	16.5	16.6
85°	15.3	14.8	13.7	13.8	5.2	14.0	16.0	16.1	16.2
86°	14.7	14.4	12.6	12.9	4.2	12.9	15.5	15.7	15.8
87°	14.2	13.9	12.5	11.8	3.3	12.1	15.1	15.3	15.4
88°	13.7	13.5	12.5	10.5	2.8	11.4	14.7	14.9	15.1
89°	13.4	13.1	12.2	8.6	2.0	10.7	14.3	14.6	14.8



TEST NUMBER: P958953

CATALOG NUMBER: MFO-06W-940-60-X-1F-UNV-STD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3

(END OF REPORT)