

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: P958908

Luminaire Tested: MMG-08W-927-30x60-ID-X-X-1F-1-UNV-STD-X

Issue Date: 1/31/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P958908  
SCALED TEST REPORT  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/31/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: iO LED  
Catalog Number: MMG-08W-927-30x60-ID-X-X-1F-1-UNV-STD-X  
Description: iO LED MiniO-Graze LINEAR LIGHTING WITH 30x60 DEGREE OPTICS. INPUT WATTAGE IN IES FILE REPRESENTS CONSUMPTION IN A RUN, INDIVIDUAL FIXTURE MAY VARY.  
8 WATTS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

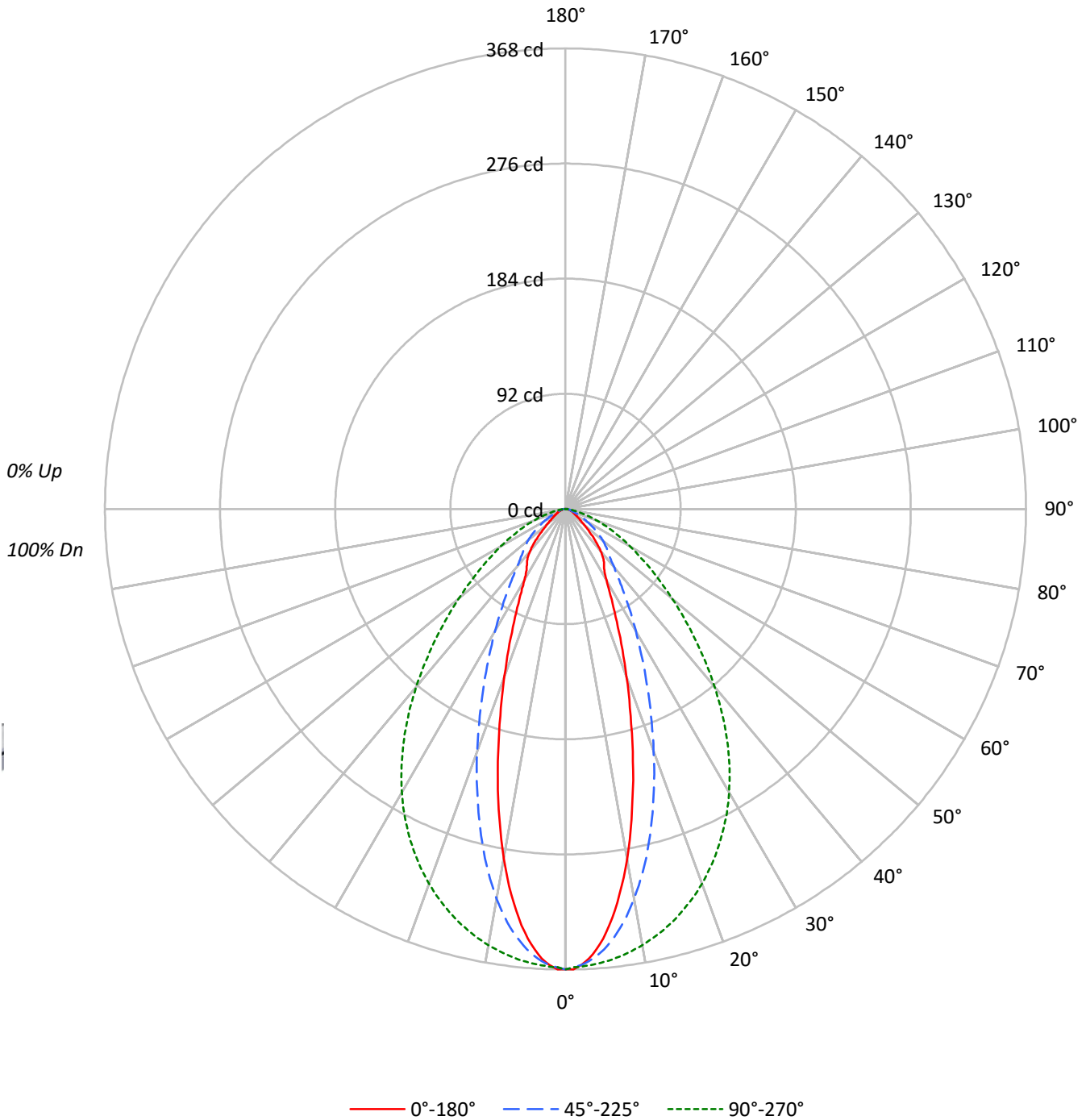
Lumens per Lamp: N/A  
Luminaire Lumens: 371.6 lumens  
Efficiency: N/A  
Efficacy: 50.9 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.09 / 0.76  
Luminous Opening: Rectangular w/ Sides (W: 0.07' x L: 1' x H: 0.09')  
CIE Type: Direct  
  
Input Watts (W): 7.3  
Input Voltage (V): 120  
Input Current (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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72				
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	59				
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	44	41	39				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	57475	57475	57475
5°	53641	51198	51377
10°	44354	43070	46082
15°	32968	34113	41183
20°	22977	25559	36526
25°	15782	18458	31988
30°	11261	13141	27510
35°	9664	9379	22996
40°	8355	6854	18545
45°	6168	5467	14443
50°	4192	4470	10918
55°	3132	3357	8108
60°	2450	2325	5912
65°	2187	1525	4167
70°	2035	985	2729
75°	1557	645	1557
80°	1334	428	751
85°	1452	307	272

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 14443 cd/sqm



TEST NUMBER: P958908

CATALOG NUMBER: MMG-08W-927-30x60-ID-X-X-1F-1-UNV-STD-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.6	8.8
10°-20°	74.6	20.1
20°-30°	79.7	21.4
30°-40°	68.3	18.4
40°-50°	52.7	14.2
50°-60°	34.4	9.2
60°-70°	18.9	5.1
70°-80°	7.9	2.1
80°-90°	2.6	0.7
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°	186.8	50.3
0°-40°	255.1	68.7
0°-60°	342.2	92.1
0°-90°	371.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	371.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	345	347	353	360	363	31
15°	208	223	264	314	339	57
25°	95	108	154	237	293	44
35°	54	56	81	158	225	34
45°	30	36	48	100	146	23
55°	13	16	29	60	82	12
65°	7	7	12	31	41	7
75°	3	4	5	11	14	4
85°	2	2	2	3	2	2
90°	2	2	2	2	2	



TEST NUMBER: P958908

CATALOG NUMBER: MMG-08W-927-30x60-ID-X-X-1F-1-UNV-STD-X

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	367.9	367.9	367.9	367.9	367.9
1°	368.0	367.2	366.5	366.3	366.3
2°	364.7	364.3	364.7	365.3	365.8
3°	359.8	360.1	361.9	363.9	365.2
4°	353.0	354.2	358.1	362.2	364.2
5°	344.6	346.8	353.2	360.0	363.1
6°	334.7	338.1	347.5	357.3	361.8
7°	323.6	328.3	340.9	354.3	360.2
8°	310.8	317.3	333.5	350.7	358.3
9°	298.1	305.3	325.2	346.6	356.2
10°	283.8	293.0	316.3	342.2	353.9
11°	269.0	279.3	306.6	337.4	351.4
12°	253.7	265.6	296.6	332.1	348.7
13°	238.6	251.2	286.4	326.5	345.7
14°	223.5	237.3	275.1	320.7	342.5
15°	208.5	223.2	263.8	314.4	339.1
16°	193.9	208.9	252.4	307.7	335.4
17°	179.7	195.3	240.5	300.6	331.6
18°	166.9	181.9	229.2	293.3	327.5
19°	154.5	169.7	217.9	285.8	323.2
20°	142.5	157.6	206.1	278.2	318.7
21°	131.8	146.4	194.9	270.4	313.9
22°	121.3	135.7	184.0	262.4	309.0
23°	111.9	126.1	173.5	254.2	303.8
24°	103.1	116.6	163.4	245.9	298.3
25°	95.2	108.1	153.8	237.4	292.7
26°	87.8	99.9	144.8	228.9	287.0
27°	81.2	92.6	135.9	220.3	280.9
28°	75.2	85.9	127.5	211.9	274.7
29°	70.0	79.8	119.7	203.9	268.3
30°	65.5	74.1	112.2	196.0	261.5
31°	61.9	69.0	105.4	188.1	254.6
32°	58.9	64.8	98.7	180.2	247.5
33°	56.8	61.2	92.6	172.5	240.2
34°	55.2	58.4	86.7	165.0	232.7
35°	53.7	56.2	81.4	157.8	225.1
36°	52.2	54.4	76.2	150.9	217.3
37°	50.6	52.9	71.7	144.2	209.4
38°	48.6	51.4	67.3	137.9	201.4
39°	46.4	49.9	63.4	131.8	193.4
40°	43.9	48.1	60.0	126.1	185.4
41°	41.3	46.1	56.9	120.4	177.4
42°	38.6	43.9	54.2	114.9	169.5
43°	35.7	41.5	51.8	109.6	161.6
44°	33.0	38.9	49.8	104.7	153.8

TEST NUMBER: P958908

CATALOG NUMBER: MMG-08W-927-30x60-ID-X-X-1F-1-UNV-STD-X

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
45°	30.3	36.3	47.9	99.8	146.3
46°	27.7	33.7	46.0	95.2	138.9
47°	25.1	31.2	44.3	90.8	131.6
48°	22.9	28.8	42.5	86.5	124.5
49°	20.8	26.3	40.7	82.4	117.7
50°	19.0	24.0	38.9	78.5	111.2
51°	17.4	21.9	36.9	74.5	105.0
52°	16.1	20.1	34.9	70.8	98.9
53°	14.9	18.4	32.9	67.2	93.2
54°	13.9	17.0	30.8	63.7	87.7
55°	12.9	15.6	28.8	60.4	82.4
56°	11.9	14.4	26.8	57.0	77.3
57°	11.1	13.4	24.8	53.8	72.6
58°	10.4	12.4	22.9	50.8	68.0
59°	9.6	11.4	21.2	47.8	63.7
60°	9.0	10.6	19.5	44.8	59.5
61°	8.4	9.8	17.8	41.9	55.5
62°	7.9	9.1	16.4	39.2	51.8
63°	7.6	8.4	14.9	36.5	48.1
64°	7.3	7.8	13.6	33.9	44.6
65°	7.0	7.4	12.4	31.4	41.2
66°	6.7	6.9	11.2	28.9	38.0
67°	6.5	6.5	10.3	26.6	34.9
68°	6.2	6.2	9.3	24.3	31.9
69°	5.8	5.8	8.4	22.1	29.0
70°	5.5	5.5	7.7	20.1	26.3
71°	5.0	5.2	7.0	18.1	23.6
72°	4.6	4.8	6.3	16.2	21.2
73°	4.2	4.5	5.8	14.4	18.8
74°	3.8	4.2	5.2	12.8	16.6
75°	3.4	3.8	4.8	11.3	14.5
76°	3.1	3.5	4.4	9.9	12.7
77°	2.8	3.2	4.0	8.7	11.0
78°	2.5	2.9	3.6	7.6	9.4
79°	2.4	2.7	3.3	6.6	8.0
80°	2.2	2.4	3.0	5.8	6.7
81°	2.0	2.2	2.8	5.0	5.6
82°	1.9	2.1	2.6	4.4	4.6
83°	1.8	1.9	2.4	3.9	3.7
84°	1.7	1.8	2.2	3.4	3.0
85°	1.6	1.7	2.0	3.1	2.3
86°	1.6	1.6	1.9	2.7	1.8
87°	1.6	1.6	1.8	2.4	1.4
88°	1.6	1.5	1.6	2.2	1.1
89°	1.6	1.5	1.6	2.0	0.9



TEST NUMBER: P958908

CATALOG NUMBER: MMG-08W-927-30x60-ID-X-X-1F-1-UNV-STD-X

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
90°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)