

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: P977170

Luminaire Tested: GRZ-15L-927-17x75-X-UNV-STD-1F

Issue Date: 3/21/2025

**Test Information**

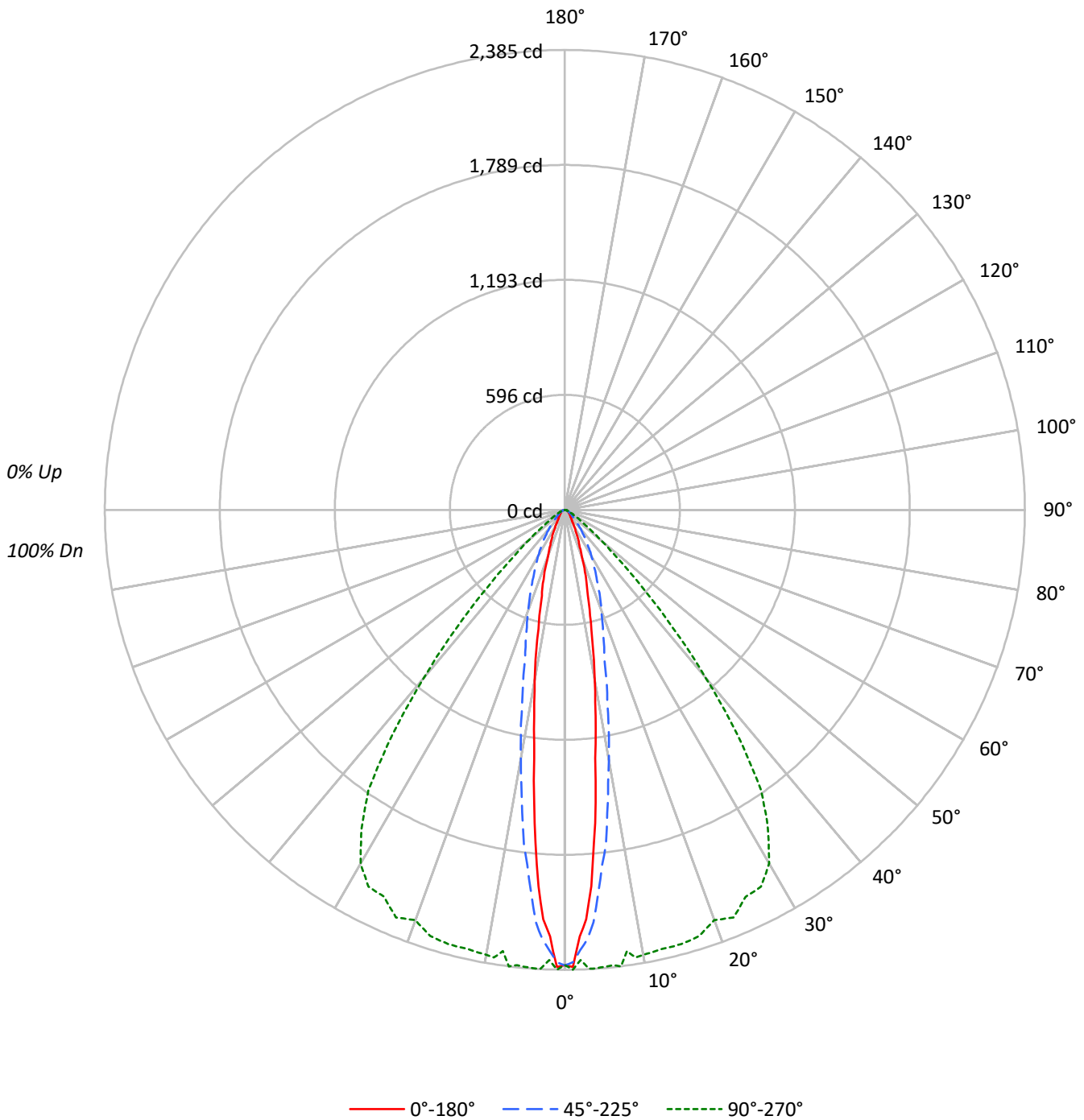
Test Method: LM-79-2019  
Report Number: P977170  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-147-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 3/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: iO LED  
Catalog Number: GRZ-15L-927-17x75-X-UNV-STD-1F  
Description: iO COVIO LED GRAZER WITH 17X75 DEGREE OPTIC.  
1500 LUMENS PER FOOT, 1 FOOT FIXTURE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1278.3 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 1.27 / 0.47  
Luminous Opening: Rectangular (W 1' x L: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.9  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72
5	90	81	75	70	89	80	75	70	79	73	70	77	72	69	75	71	68	67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48

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

	0°	45°	90°
0°	152552	152552	152552
5°	112428	129375	154192
10°	58930	86178	153679
15°	30903	52908	155908
20°	17807	38020	155607
25°	11145	27613	157848
30°	6965	20538	157874
35°	4786	15090	139857
40°	3937	10623	95832
45°	3407	7462	51376
50°	3044	5395	24385
55°	2894	4470	11823
60°	3010	3914	6936
65°	2858	3209	4630
70°	2644	2644	3531
75°	2321	2321	2920
80°	1748	1748	1748
85°	1704	1704	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 51376 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.6	13.7
10°-20°	303.7	23.8
20°-30°	315.8	24.7
30°-40°	263.7	20.6
40°-50°	130.1	10.2
50°-60°	52.7	4.1
60°-70°	24.8	1.9
70°-80°	10.9	0.9
80°-90°	1.8	0.1
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°	794.2	62.1
0°-40°	1057.9	82.8
0°-60°	1240.7	97.1
0°-90°	1278.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	1734	1835	1996	2271	2378	136
15°	462	532	791	1554	2332	135
25°	156	194	388	959	2215	73
35°	61	84	191	532	1774	40
45°	37	44	82	217	562	29
55°	26	30	40	89	105	24
65°	19	19	21	33	30	18
75°	9	9	9	12	12	10
85°	2	2	2	2	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2362.1	2362.1	2362.1	2362.1	2362.1
1°	2371.4	2366.8	2345.8	2378.4	2385.4
2°	2212.7	2273.4	2285.1	2324.8	2336.4
3°	2126.4	2168.4	2229.1	2327.1	2383.1
4°	1956.0	2002.7	2145.0	2303.7	2383.1
5°	1734.2	1834.6	1995.6	2271.1	2378.4
6°	1528.8	1645.5	1853.3	2226.7	2373.8
7°	1297.8	1449.5	1745.9	2145.0	2385.4
8°	1150.7	1262.7	1587.2	2082.0	2310.8
9°	1010.7	1118.0	1435.5	1988.6	2350.4
10°	898.6	975.7	1314.1	1937.3	2343.4
12.5°	632.5	709.6	1020.0	1755.2	2331.8
15°	462.2	532.2	791.3	1554.5	2331.8
17.5°	357.1	410.8	660.5	1384.1	2317.8
20°	259.1	319.8	553.2	1227.7	2264.1
22.5°	196.1	249.7	466.8	1087.7	2287.4
25°	156.4	193.7	387.5	959.3	2215.1
27.5°	121.4	154.1	326.8	837.9	2203.4
30°	93.4	121.4	275.4	728.2	2117.0
32.5°	74.7	98.0	228.7	625.5	1960.6
35°	60.7	84.0	191.4	532.2	1773.9
37.5°	53.7	70.0	154.1	445.8	1468.1
40°	46.7	58.4	126.0	345.4	1136.7
42.5°	42.0	51.4	98.0	275.4	830.9
45°	37.3	44.3	81.7	217.1	562.5
47.5°	35.0	42.0	65.4	175.1	364.1
50°	30.3	37.3	53.7	137.7	242.7
52.5°	28.0	32.7	46.7	114.4	156.4
55°	25.7	30.3	39.7	88.7	105.0
57.5°	25.7	28.0	35.0	70.0	74.7
60°	23.3	23.3	30.3	53.7	53.7
62.5°	21.0	21.0	25.7	42.0	42.0
65°	18.7	18.7	21.0	32.7	30.3
67.5°	16.3	16.3	16.3	25.7	25.7
70°	14.0	14.0	14.0	21.0	18.7
72.5°	11.7	11.7	11.7	16.3	14.0
75°	9.3	9.3	9.3	11.7	11.7
77.5°	7.0	7.0	7.0	9.3	7.0
80°	4.7	4.7	4.7	4.7	4.7
82.5°	2.3	2.3	2.3	2.3	2.3
85°	2.3	2.3	2.3	2.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)