

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: P977179

Luminaire Tested: GRZ-15L-940-17x75-X-UNV-STD-1F

Issue Date: 3/21/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P977179  
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-940-17x75-X-UNV-STD-1F  
Description: iO COVIO LED GRAZER WITH 17X75 DEGREE OPTIC.  
1500 LUMENS PER FOOT, 1 FOOT FIXTURE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

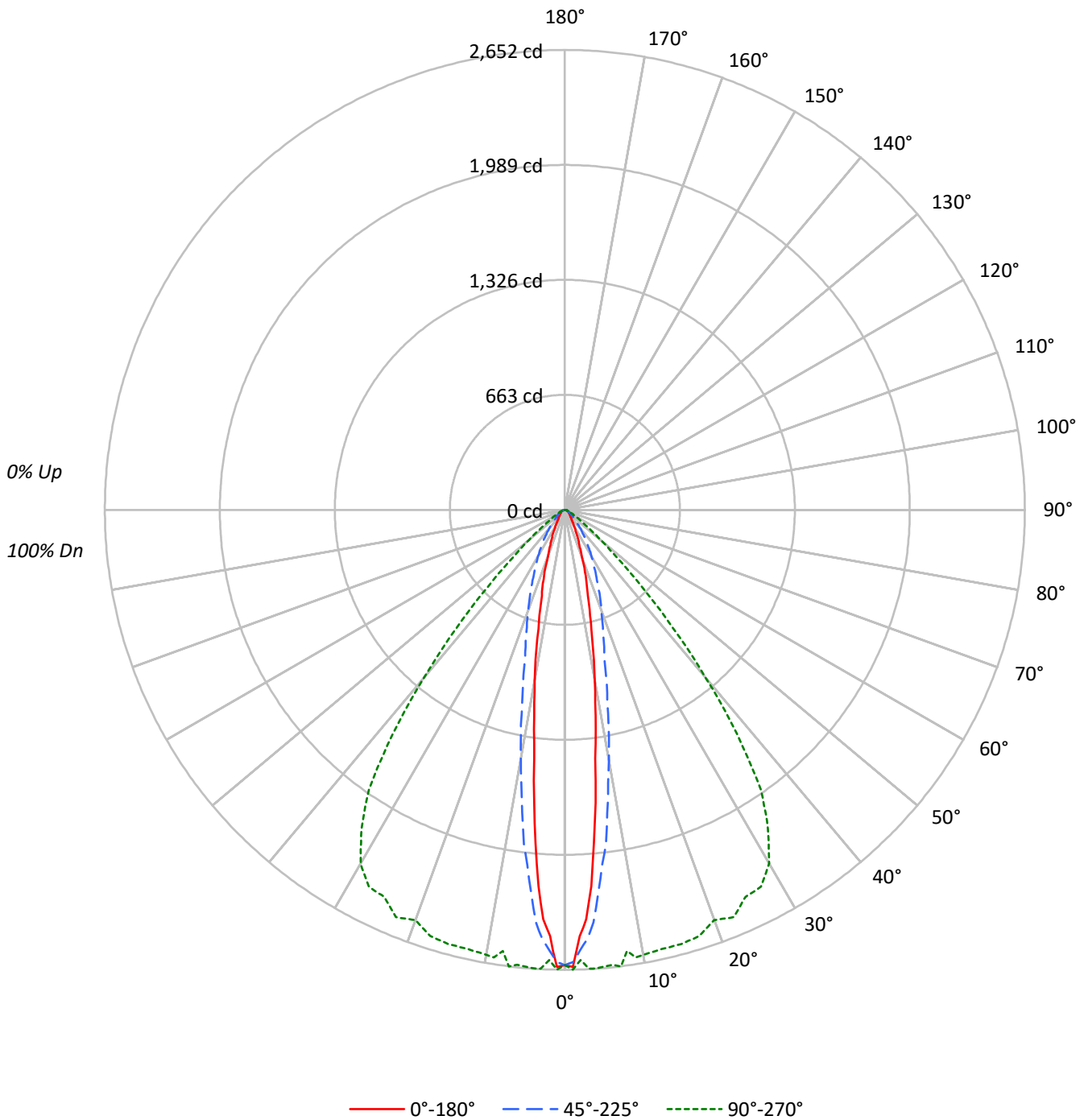
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1421.1 lumens  
Efficiency: N/A  
Efficacy: 95.4 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°	169596	169596	169596
5°	124992	143832	171424
10°	65514	95805	170855
15°	34353	58818	173325
20°	19794	42268	172989
25°	12392	30699	175477
30°	7741	22835	175518
35°	5322	16778	155484
40°	4376	11811	106540
45°	3790	8293	57121
50°	3386	5998	27118
55°	3209	4966	13151
60°	3345	4353	7711
65°	3179	3576	5150
70°	2946	2946	3928
75°	2595	2595	3244
80°	1934	1934	1934
85°	1927	1927	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 57121 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.1	13.7
10°-20°	337.7	23.8
20°-30°	351.1	24.7
30°-40°	293.2	20.6
40°-50°	144.7	10.2
50°-60°	58.6	4.1
60°-70°	27.6	1.9
70°-80°	12.2	0.9
80°-90°	2.0	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°	882.9	62.1
0°-40°	1176.1	82.8
0°-60°	1379.4	97.1
0°-90°	1421.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2626	2626	2626	2626	2626	
5°	1928	2040	2219	2525	2644	151
15°	514	592	880	1728	2592	150
25°	174	215	431	1066	2462	81
35°	68	93	213	592	1972	45
45°	42	49	91	241	625	33
55°	28	34	44	99	117	26
65°	21	21	23	36	34	21
75°	10	10	10	13	13	11
85°	3	3	3	3	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2626.0	2626.0	2626.0	2626.0	2626.0
1°	2636.4	2631.2	2607.9	2644.2	2652.0
2°	2459.9	2527.4	2540.4	2584.5	2597.5
3°	2363.9	2410.6	2478.1	2587.1	2649.4
4°	2174.5	2226.4	2384.7	2561.1	2649.4
5°	1928.0	2039.6	2218.6	2524.8	2644.2
6°	1699.6	1829.4	2060.3	2475.5	2639.0
7°	1442.8	1611.4	1941.0	2384.7	2652.0
8°	1279.3	1403.8	1764.5	2314.6	2568.9
9°	1123.6	1242.9	1595.9	2210.8	2613.0
10°	999.0	1084.7	1460.9	2153.8	2605.3
12.5°	703.2	788.8	1134.0	1951.4	2592.3
15°	513.8	591.6	879.7	1728.2	2592.3
17.5°	397.0	456.7	734.4	1538.8	2576.7
20°	288.0	355.5	615.0	1364.9	2517.0
22.5°	218.0	277.7	519.0	1209.2	2543.0
25°	173.9	215.4	430.8	1066.5	2462.5
27.5°	134.9	171.3	363.3	931.6	2449.6
30°	103.8	134.9	306.2	809.6	2353.6
32.5°	83.0	109.0	254.3	695.4	2179.7
35°	67.5	93.4	212.8	591.6	1972.1
37.5°	59.7	77.8	171.3	495.6	1632.2
40°	51.9	64.9	140.1	384.0	1263.7
42.5°	46.7	57.1	109.0	306.2	923.8
45°	41.5	49.3	90.8	241.3	625.4
47.5°	38.9	46.7	72.7	194.6	404.8
50°	33.7	41.5	59.7	153.1	269.9
52.5°	31.1	36.3	51.9	127.1	173.9
55°	28.5	33.7	44.1	98.6	116.8
57.5°	28.5	31.1	38.9	77.8	83.0
60°	25.9	25.9	33.7	59.7	59.7
62.5°	23.4	23.4	28.5	46.7	46.7
65°	20.8	20.8	23.4	36.3	33.7
67.5°	18.2	18.2	18.2	28.5	28.5
70°	15.6	15.6	15.6	23.4	20.8
72.5°	13.0	13.0	13.0	18.2	15.6
75°	10.4	10.4	10.4	13.0	13.0
77.5°	7.8	7.8	7.8	10.4	7.8
80°	5.2	5.2	5.2	5.2	5.2
82.5°	2.6	2.6	2.6	2.6	2.6
85°	2.6	2.6	2.6	2.6	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)