

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: P977173

Luminaire Tested: GRZ-15L-930-17x75-X-UNV-STD-1F

Issue Date: 3/21/2025

Test Information

Test Method: LM-79-2019
Report Number: P977173
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-930-17x75-X-UNV-STD-1F
Description: iO COVIO LED GRAZER WITH 17X75 DEGREE OPTIC.
1500 LUMENS PER FOOT, 1 FOOT FIXTURE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

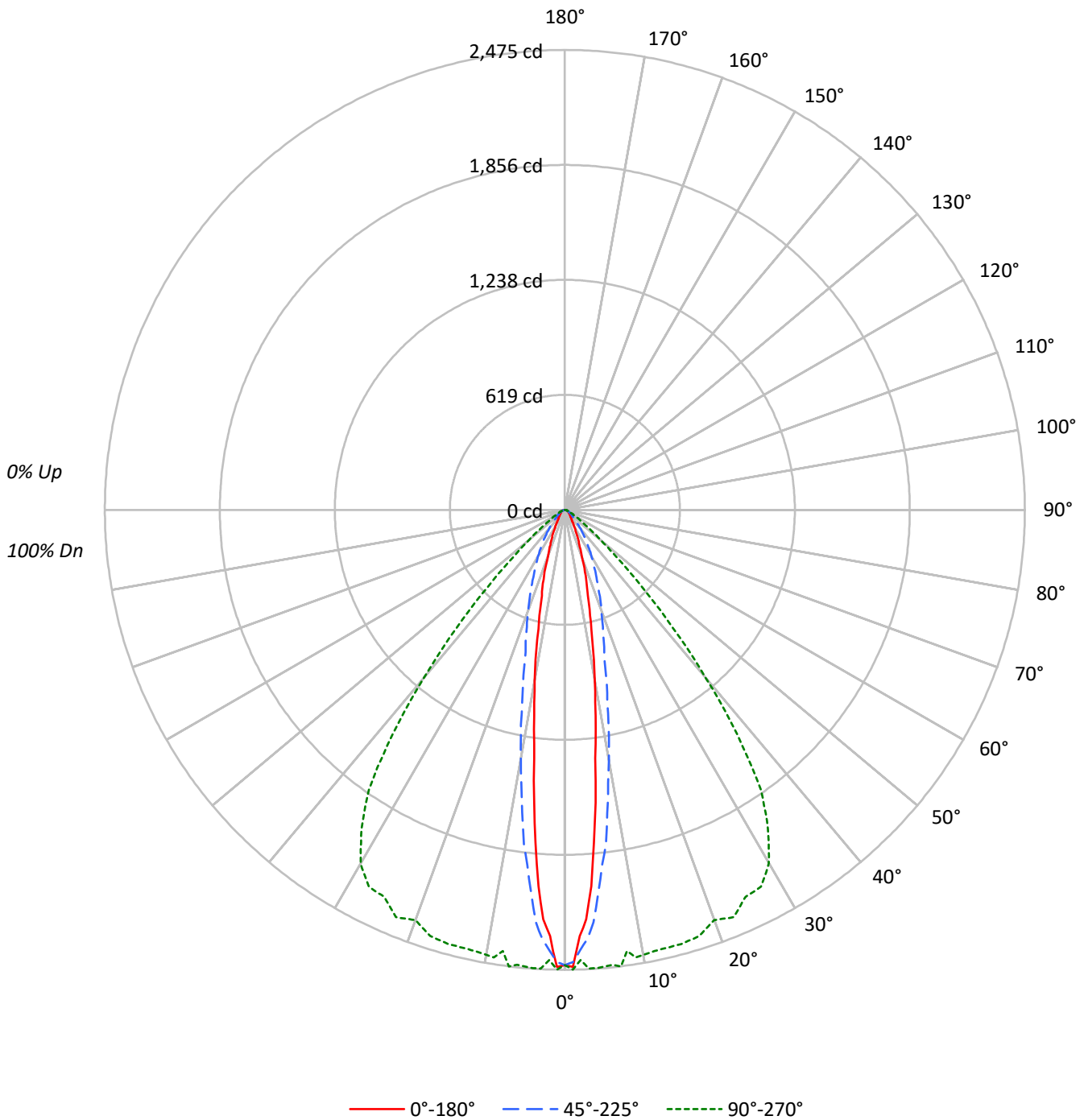
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1326.2 lumens
Efficiency: N/A
Efficacy: 89.0 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°	158274	158274	158274
5°	116649	134231	159981
10°	61140	89411	159444
15°	32060	54887	161752
20°	18474	39443	161442
25°	11558	28646	163762
30°	7226	21313	163795
35°	4967	15658	145100
40°	4080	11027	99424
45°	3535	7745	53303
50°	3165	5596	25309
55°	2995	4639	12273
60°	3126	4069	7195
65°	2965	3331	4814
70°	2738	2738	3663
75°	2420	2420	3019
80°	1785	1785	1785
85°	1778	1778	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 53303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	13.7
10°-20°	315.1	23.8
20°-30°	327.7	24.7
30°-40°	273.6	20.6
40°-50°	135.0	10.2
50°-60°	54.7	4.1
60°-70°	25.7	1.9
70°-80°	11.3	0.9
80°-90°	1.9	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°	824.0	62.1
0°-40°	1097.5	82.8
0°-60°	1287.3	97.1
0°-90°	1326.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2451	2451	2451	2451	2451	
5°	1799	1903	2070	2356	2468	141
15°	480	552	821	1613	2419	140
25°	162	201	402	995	2298	76
35°	63	87	199	552	1840	42
45°	39	46	85	225	584	31
55°	27	32	41	92	109	25
65°	19	19	22	34	32	19
75°	10	10	10	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°	2450.7	2450.7	2450.7	2450.7	2450.7
1°	2460.4	2455.5	2433.7	2467.7	2474.9
2°	2295.7	2358.7	2370.8	2412.0	2424.1
3°	2206.1	2249.7	2312.7	2414.4	2472.5
4°	2029.3	2077.8	2225.5	2390.2	2472.5
5°	1799.3	1903.4	2070.5	2356.3	2467.7
6°	1586.2	1707.3	1922.8	2310.2	2462.8
7°	1346.4	1503.8	1811.4	2225.5	2474.9
8°	1193.9	1310.1	1646.7	2160.1	2397.4
9°	1048.6	1160.0	1489.3	2063.2	2438.6
10°	932.3	1012.2	1363.4	2010.0	2431.3
12.5°	656.3	736.2	1058.3	1821.1	2419.2
15°	479.5	552.1	820.9	1612.8	2419.2
17.5°	370.5	426.2	685.3	1436.0	2404.7
20°	268.8	331.8	573.9	1273.8	2349.0
22.5°	203.4	259.1	484.3	1128.5	2373.2
25°	162.2	201.0	402.0	995.3	2298.1
27.5°	125.9	159.8	339.0	869.4	2286.0
30°	96.9	125.9	285.8	755.6	2196.4
32.5°	77.5	101.7	237.3	649.0	2034.2
35°	63.0	87.2	198.6	552.1	1840.4
37.5°	55.7	72.6	159.8	462.5	1523.2
40°	48.4	60.5	130.8	358.4	1179.3
42.5°	43.6	53.3	101.7	285.8	862.1
45°	38.7	46.0	84.8	225.2	583.6
47.5°	36.3	43.6	67.8	181.6	377.8
50°	31.5	38.7	55.7	142.9	251.9
52.5°	29.1	33.9	48.4	118.7	162.2
55°	26.6	31.5	41.2	92.0	109.0
57.5°	26.6	29.1	36.3	72.6	77.5
60°	24.2	24.2	31.5	55.7	55.7
62.5°	21.8	21.8	26.6	43.6	43.6
65°	19.4	19.4	21.8	33.9	31.5
67.5°	17.0	17.0	17.0	26.6	26.6
70°	14.5	14.5	14.5	21.8	19.4
72.5°	12.1	12.1	12.1	17.0	14.5
75°	9.7	9.7	9.7	12.1	12.1
77.5°	7.3	7.3	7.3	9.7	7.3
80°	4.8	4.8	4.8	4.8	4.8
82.5°	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	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)