

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: P977158

Luminaire Tested: GRZ-10L-927-17x75-X-UNV-STD-1F

Issue Date: 3/21/2025

Test Information

Test Method: LM-79-2019
Report Number: P977158
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-10L-927-17x75-X-UNV-STD-1F
Description: iO COVIO LED GRAZER WITH 17X75 DEGREE OPTIC.
1000 LUMENS PER FOOT, 1 FOOT FIXTURE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

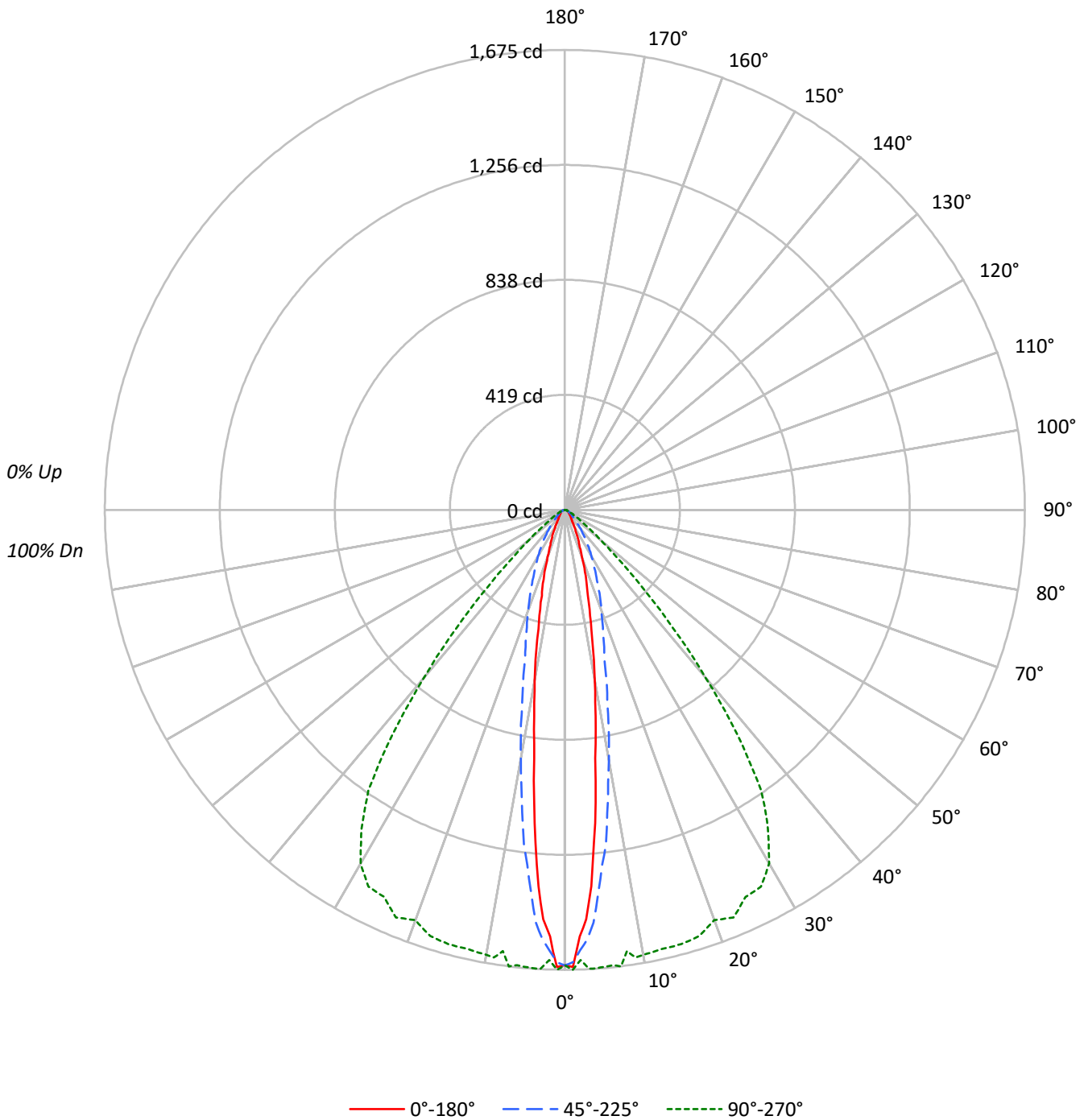
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 897.8 lumens
Efficiency: N/A
Efficacy: 89.8 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): 10
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°	107150	107150	107150
5°	78969	90872	108299
10°	41394	60530	107938
15°	21703	37162	109499
20°	12509	26701	109292
25°	7824	19390	110866
30°	4892	14423	110885
35°	3359	10596	98229
40°	2765	7461	67311
45°	2393	5243	36086
50°	2140	3788	17131
55°	2027	3141	8310
60°	2118	2751	4870
65°	2002	2262	3255
70°	1851	1851	2474
75°	1647	1647	2046
80°	1227	1227	1227
85°	1186	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 36086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	13.7
10°-20°	213.3	23.8
20°-30°	221.8	24.7
30°-40°	185.2	20.6
40°-50°	91.4	10.2
50°-60°	37.0	4.1
60°-70°	17.4	1.9
70°-80°	7.7	0.9
80°-90°	1.3	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°	557.8	62.1
0°-40°	743.0	82.8
0°-60°	871.5	97.1
0°-90°	897.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	897.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1218	1289	1402	1595	1670	95
15°	325	374	556	1092	1638	95
25°	110	136	272	674	1556	51
35°	43	59	134	374	1246	28
45°	26	31	57	152	395	21
55°	18	21	28	62	74	17
65°	13	13	15	23	21	13
75°	7	7	7	8	8	7
85°	2	2	2	2	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.1	1659.1	1659.1	1659.1	1659.1
1°	1665.6	1662.3	1647.6	1670.5	1675.4
2°	1554.1	1596.8	1605.0	1632.8	1641.0
3°	1493.5	1523.0	1565.6	1634.5	1673.8
4°	1373.8	1406.6	1506.6	1618.1	1673.8
5°	1218.1	1288.6	1401.7	1595.1	1670.5
6°	1073.8	1155.8	1301.7	1564.0	1667.3
7°	911.5	1018.1	1226.3	1506.6	1675.4
8°	808.2	886.9	1114.8	1462.3	1623.0
9°	709.9	785.3	1008.2	1396.8	1650.9
10°	631.2	685.3	923.0	1360.7	1645.9
12.5°	444.3	498.4	716.4	1232.8	1637.7
15°	324.6	373.8	555.8	1091.8	1637.7
17.5°	250.8	288.5	463.9	972.2	1627.9
20°	182.0	224.6	388.5	862.3	1590.2
22.5°	137.7	175.4	327.9	764.0	1606.6
25°	109.8	136.1	272.1	673.8	1555.8
27.5°	85.2	108.2	229.5	588.5	1547.6
30°	65.6	85.2	193.4	511.5	1486.9
32.5°	52.5	68.9	160.7	439.4	1377.1
35°	42.6	59.0	134.4	373.8	1245.9
37.5°	37.7	49.2	108.2	313.1	1031.2
40°	32.8	41.0	88.5	242.6	798.4
42.5°	29.5	36.1	68.9	193.4	583.6
45°	26.2	31.1	57.4	152.5	395.1
47.5°	24.6	29.5	45.9	123.0	255.7
50°	21.3	26.2	37.7	96.7	170.5
52.5°	19.7	23.0	32.8	80.3	109.8
55°	18.0	21.3	27.9	62.3	73.8
57.5°	18.0	19.7	24.6	49.2	52.5
60°	16.4	16.4	21.3	37.7	37.7
62.5°	14.8	14.8	18.0	29.5	29.5
65°	13.1	13.1	14.8	23.0	21.3
67.5°	11.5	11.5	11.5	18.0	18.0
70°	9.8	9.8	9.8	14.8	13.1
72.5°	8.2	8.2	8.2	11.5	9.8
75°	6.6	6.6	6.6	8.2	8.2
77.5°	4.9	4.9	4.9	6.6	4.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	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)