

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
(formerly Eaton)

Brand: iO LED

Report Number: P592076

Luminaire Tested: **GRZ-15L-927-50x60-X-UNV-STD-2F**

Issue Date: 2/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P592076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2111-457-22)
Test Lab: INNOVATION CENTER
Issue Date: 2/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: GRZ-15L-927-50x60-X-UNV-STD-2F
Description: iO LED GRAZER WITH 50x60 OPTIC
1500 LUMENS PER FOOT, 2 FOOT FIXTURE
SUMULATED RESULTS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

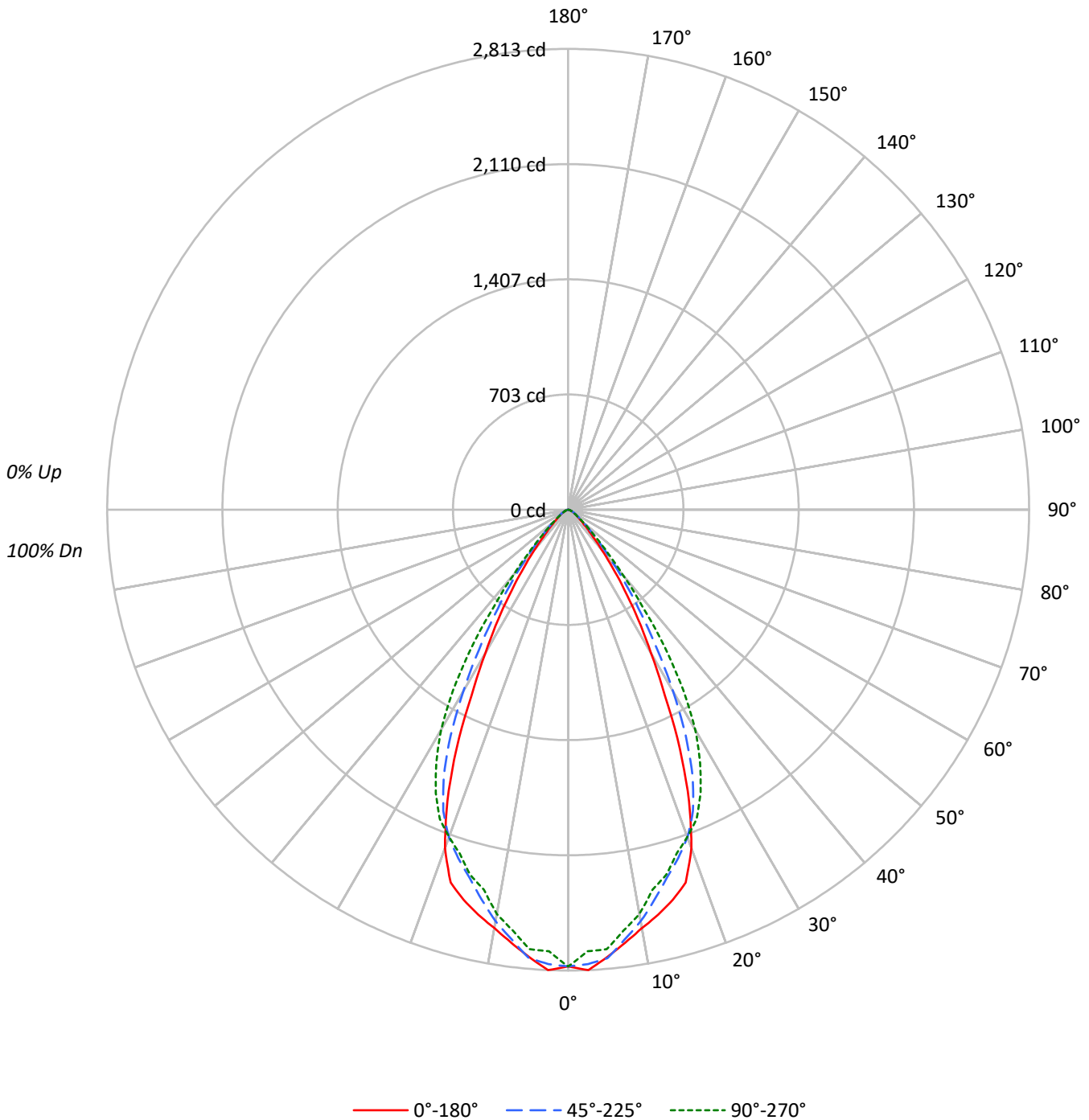
Lumens per Lamp: N/A
Luminaire Lumens: 2572.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.95 / 0.87
Luminous Opening: Rectangular (W 2' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): 120
Input Current (A_{in}): 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93					93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68					68			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	72	68	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	59					59			
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55					55			
9	74	64	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	90032	90032	90032
5°	88837	89080	87297
10°	85027	83630	82155
15°	82424	77743	77158
20°	75532	73127	73041
25°	57553	64059	68067
30°	37668	47739	57806
35°	23558	30559	40710
40°	13388	18130	21924
45°	7421	10389	10851
50°	4773	6028	5903
55°	3519	4082	3659
60°	2583	2906	2583
65°	2101	2292	1910
70°	1416	1652	1652
75°	936	1248	1248
80°	930	930	930
85°	926	926	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	9.9
10°-20°	657.3	25.6
20°-30°	792.7	30.8
30°-40°	541.1	21.0
40°-50°	215.7	8.4
50°-60°	70.0	2.7
60°-70°	28.3	1.1
70°-80°	10.8	0.4
80°-90°	2.2	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°	1703.9	66.2
0°-40°	2245.0	87.3
0°-60°	2530.7	98.4
0°-90°	2572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2788	2788	2788	2788	2788	
5°	2741	2738	2748	2701	2693	257
15°	2466	2380	2326	2290	2308	688
25°	1615	1605	1798	1855	1910	727
35°	598	753	775	1105	1033	383
45°	162	313	228	308	238	136
55°	62	85	72	70	65	57
65°	28	28	30	28	25	27
75°	8	10	10	10	10	9
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2788.1	2788.1	2788.1	2788.1	2788.1
2.5°	2813.1	2785.6	2775.6	2763.1	2698.1
5°	2740.6	2738.1	2748.1	2700.6	2693.1
7.5°	2665.6	2653.1	2645.6	2613.1	2590.6
10°	2593.1	2565.5	2550.5	2505.5	2505.5
12.5°	2533.0	2488.0	2438.0	2393.0	2375.5
15°	2465.5	2380.5	2325.5	2290.5	2308.0
17.5°	2385.5	2253.0	2230.5	2183.0	2200.5
20°	2198.0	2107.9	2128.0	2082.9	2125.5
22.5°	1927.9	1877.9	1990.4	1980.4	2045.4
25°	1615.3	1605.3	1797.9	1855.4	1910.4
27.5°	1277.8	1330.3	1552.8	1710.4	1742.9
30°	1010.2	1092.7	1280.3	1535.3	1550.3
32.5°	792.7	910.2	1010.2	1330.3	1307.8
35°	597.6	752.7	775.2	1105.2	1032.7
37.5°	440.1	632.6	590.1	870.2	742.7
40°	317.6	517.6	430.1	642.6	520.1
42.5°	225.0	412.6	312.6	465.1	352.6
45°	162.5	312.6	227.5	307.6	237.6
47.5°	122.5	230.0	165.0	202.5	167.5
50°	95.0	162.5	120.0	137.5	117.5
52.5°	77.5	117.5	92.5	97.5	87.5
55°	62.5	85.0	72.5	70.0	65.0
57.5°	50.0	65.0	57.5	55.0	52.5
60°	40.0	47.5	45.0	42.5	40.0
62.5°	32.5	37.5	37.5	32.5	32.5
65°	27.5	27.5	30.0	27.5	25.0
67.5°	20.0	22.5	22.5	20.0	20.0
70°	15.0	17.5	17.5	17.5	17.5
72.5°	12.5	12.5	15.0	12.5	12.5
75°	7.5	10.0	10.0	10.0	10.0
77.5°	5.0	7.5	7.5	7.5	7.5
80°	5.0	5.0	5.0	5.0	5.0
82.5°	2.5	2.5	5.0	2.5	2.5
85°	2.5	2.5	2.5	2.5	2.5
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)