

Scaled data based on original data using  
LM-79-08 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: P364406

Luminaire Tested: **LM-15L-940-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-518-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: iO LED  
Catalog Number: LM-15L-940-120-UNV-S-STD-4F  
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.  
1500 LUMENS PER FOOT, 48 INCH FIXTURE.  
Light Source: (180) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

**Summary**

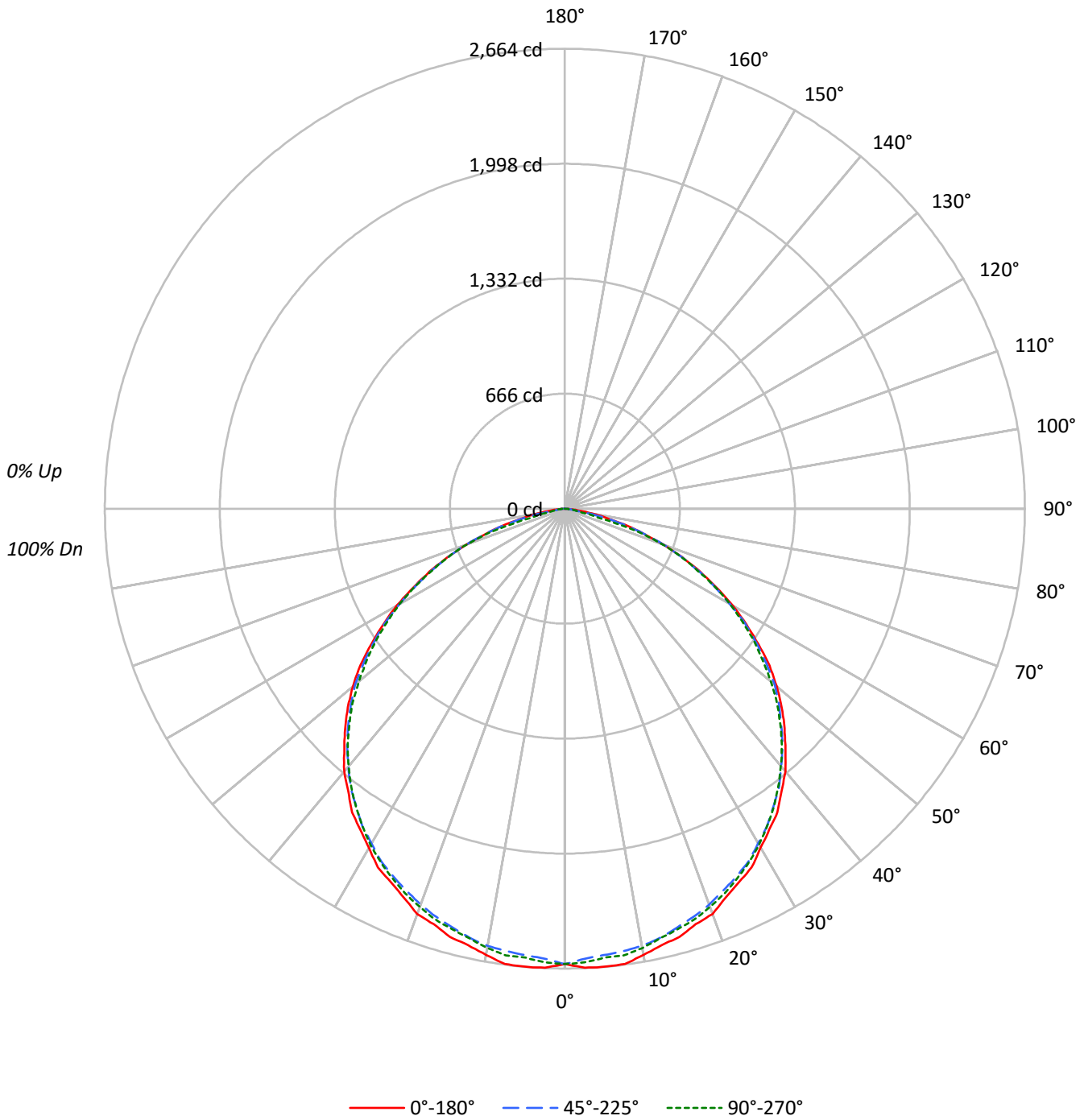
Lumens per Lamp: N/A  
Luminaire Lumens: 7185.3 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 56.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: 25 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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	56780	56780	56780
5°	57563	56100	56430
10°	57369	56224	56486
15°	57225	55959	56202
20°	57246	55920	56268
25°	56680	55851	56110
30°	56383	55650	55921
35°	56422	55360	55418
40°	55851	54778	54716
45°	54786	53988	53687
50°	53643	53097	52143
55°	51341	50808	50192
60°	48360	47465	47512
65°	44022	43410	43191
70°	37892	38099	37615
75°	29445	28538	17542
80°	18832	8666	7724
85°	8373	4866	4866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.5	3.5
10°-20°	715.4	10.0
20°-30°	1089.6	15.2
30°-40°	1322.1	18.4
40°-50°	1369.9	19.1
50°-60°	1208.0	16.8
60°-70°	850.4	11.8
70°-80°	345.4	4.8
80°-90°	35.1	0.5
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°	2054.5	28.6
0°-40°	3376.6	47.0
0°-60°	5954.4	82.9
0°-90°	7185.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7185.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2664	2630	2596	2624	2611	253
15°	2568	2542	2511	2535	2522	724
25°	2386	2370	2351	2360	2362	1102
35°	2147	2117	2106	2101	2109	1338
45°	1800	1783	1773	1776	1763	1388
55°	1368	1368	1354	1341	1337	1223
65°	864	880	852	865	848	853
75°	354	343	343	279	211	381
85°	34	19	20	21	20	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2637.5	2637.5	2637.5	2637.5	2637.5
2.5°	2661.6	2640.8	2609.1	2645.2	2631.0
5°	2663.7	2629.9	2596.0	2624.4	2611.3
7.5°	2660.5	2620.0	2585.1	2610.2	2610.2
10°	2624.4	2598.2	2572.0	2588.3	2584.0
12.5°	2589.4	2573.1	2546.8	2569.8	2550.1
15°	2567.6	2542.5	2510.8	2534.8	2521.7
17.5°	2523.9	2503.1	2479.1	2497.7	2495.5
20°	2498.8	2468.2	2440.9	2461.6	2456.1
22.5°	2436.5	2416.8	2395.0	2412.4	2413.5
25°	2386.2	2369.8	2351.3	2360.0	2362.2
27.5°	2342.5	2309.7	2304.3	2295.5	2309.7
30°	2268.2	2248.6	2238.7	2250.7	2249.6
32.5°	2203.8	2191.7	2179.7	2176.4	2180.8
35°	2146.9	2117.4	2106.5	2101.1	2108.7
37.5°	2060.6	2041.0	2036.6	2036.6	2031.1
40°	1987.4	1953.6	1949.2	1953.6	1947.0
42.5°	1890.2	1865.1	1866.1	1860.7	1860.7
45°	1799.5	1783.1	1773.3	1775.5	1763.4
47.5°	1703.4	1693.5	1681.5	1669.5	1667.3
50°	1601.7	1593.0	1585.4	1563.5	1556.9
52.5°	1493.6	1478.3	1468.4	1447.7	1445.5
55°	1367.9	1367.9	1353.7	1340.6	1337.3
57.5°	1245.6	1257.6	1236.8	1220.4	1219.3
60°	1123.2	1134.1	1102.4	1104.6	1103.5
62.5°	988.8	1011.7	976.8	988.8	979.0
65°	864.2	879.5	852.2	865.3	847.9
67.5°	733.1	733.1	730.9	725.5	728.8
70°	602.0	592.2	605.3	599.8	597.6
72.5°	473.1	460.0	474.2	473.1	449.1
75°	354.0	343.1	343.1	278.6	210.9
77.5°	243.6	238.2	220.7	111.4	103.8
80°	151.9	153.0	69.9	62.3	62.3
82.5°	79.8	67.7	35.0	36.1	35.0
85°	33.9	18.6	19.7	20.8	19.7
87.5°	8.7	8.7	10.9	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)