

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: P364403

Luminaire Tested: **LM-10L-940-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-518-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: iO LED  
Catalog Number: LM-10L-940-120-UNV-S-STD-4F  
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.  
1000 LUMENS PER FOOT, 48 INCH FIXTURE.  
Light Source: (180) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

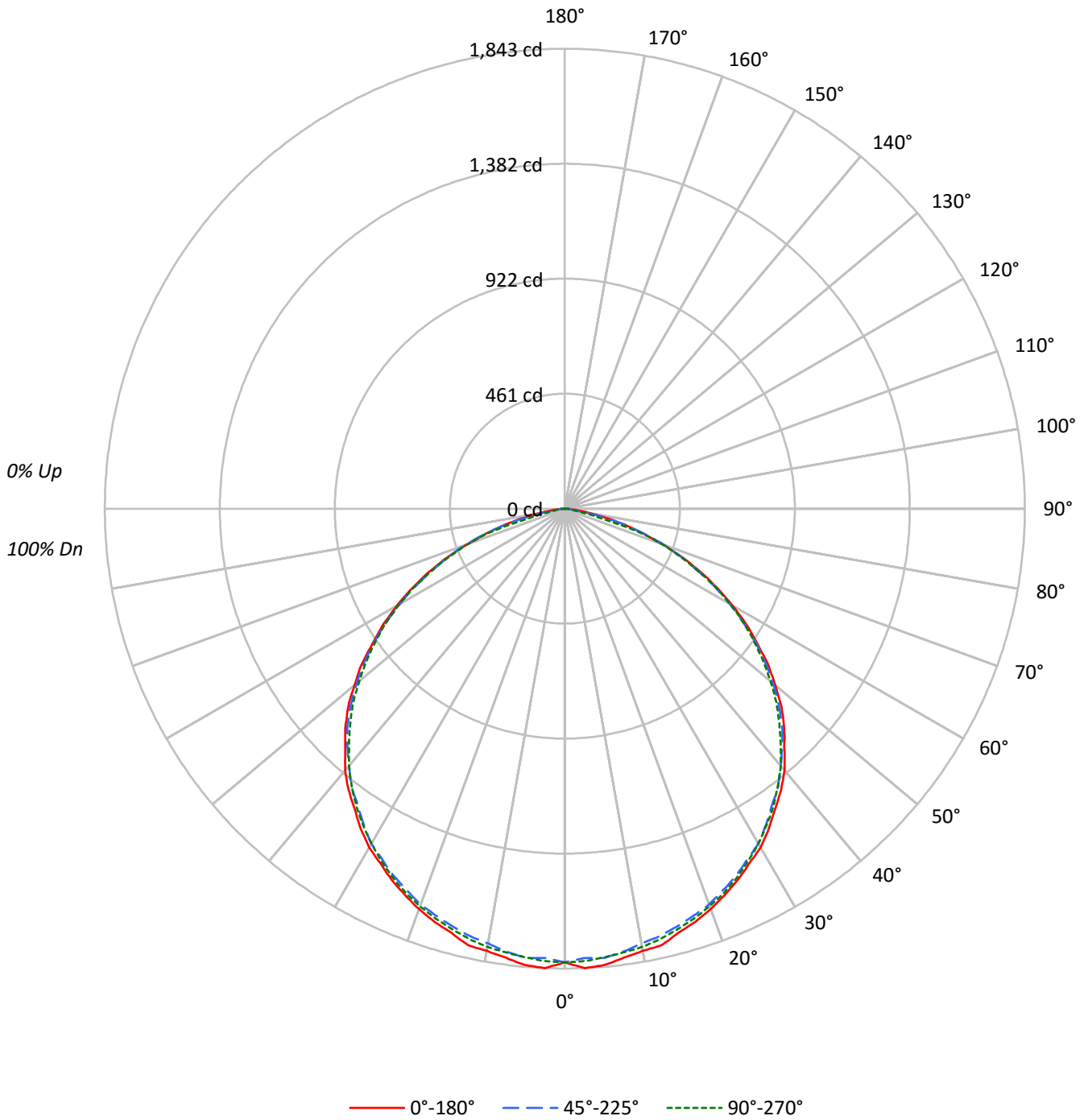
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4958.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 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): 37.5  
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: 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	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	66	77	70	65	74	69	64	71	67	63	61																																				
4	84	72	63	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25																																				

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

	0°	45°	90°
0°	39140	39140	39140
5°	39667	39052	39006
10°	39337	38668	38978
15°	39206	38644	38889
20°	39122	38673	38848
25°	38982	38566	38746
30°	38975	38540	38513
35°	38590	38046	38275
40°	38472	37798	37798
45°	37855	37490	36991
50°	36810	36445	36007
55°	35266	34980	34691
60°	33351	32834	32882
65°	30553	29830	29886
70°	25857	26612	25996
75°	20353	20087	12360
80°	12732	5554	5009
85°	5409	3236	3236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.1	3.5
10°-20°	493.2	9.9
20°-30°	751.9	15.2
30°-40°	911.5	18.4
40°-50°	944.7	19.1
50°-60°	833.9	16.8
60°-70°	587.7	11.9
70°-80°	239.1	4.8
80°-90°	23.8	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°	1417.1	28.6
0°-40°	2328.7	47.0
0°-60°	4107.3	82.8
0°-90°	4958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4958.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1836	1814	1807	1813	1805	174
15°	1759	1751	1734	1750	1745	498
25°	1641	1636	1624	1631	1631	757
35°	1468	1459	1448	1458	1456	921
45°	1243	1228	1231	1219	1215	957
55°	940	942	932	926	924	842
65°	600	601	586	593	587	591
75°	245	237	242	192	149	261
85°	22	13	13	13	13	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1818.1	1818.1	1818.1	1818.1	1818.1
2.5°	1843.2	1819.2	1802.8	1815.9	1814.8
5°	1835.6	1813.7	1807.1	1812.6	1805.0
7.5°	1814.8	1808.2	1790.8	1802.8	1794.0
10°	1799.5	1788.6	1768.9	1782.0	1783.1
12.5°	1791.9	1765.6	1754.7	1770.0	1766.7
15°	1759.1	1751.4	1733.9	1750.3	1744.9
17.5°	1736.1	1729.6	1711.0	1721.9	1721.9
20°	1707.7	1699.0	1688.1	1697.9	1695.7
22.5°	1674.9	1666.2	1655.3	1667.3	1666.2
25°	1641.1	1635.6	1623.6	1631.2	1631.2
27.5°	1601.7	1598.5	1584.3	1590.8	1591.9
30°	1567.9	1556.9	1550.4	1550.4	1549.3
32.5°	1520.9	1507.8	1500.1	1504.5	1504.5
35°	1468.4	1458.6	1447.7	1457.5	1456.4
37.5°	1422.6	1405.1	1404.0	1400.7	1401.8
40°	1369.0	1346.1	1345.0	1349.4	1345.0
42.5°	1301.3	1287.1	1289.3	1287.1	1279.4
45°	1243.4	1228.1	1231.4	1219.3	1215.0
47.5°	1177.8	1160.3	1162.5	1152.7	1149.4
50°	1099.1	1092.6	1088.2	1081.7	1075.1
52.5°	1027.0	1025.9	1012.8	1008.5	1000.8
55°	939.6	941.8	932.0	926.5	924.3
57.5°	861.0	866.4	846.8	844.6	848.9
60°	774.6	782.3	762.6	764.8	763.7
62.5°	688.3	693.8	676.3	685.1	681.8
65°	599.8	600.9	585.6	593.3	586.7
67.5°	509.1	512.4	503.7	507.0	499.3
70°	410.8	408.6	422.8	416.3	413.0
72.5°	324.5	321.2	330.0	328.9	310.3
75°	244.7	237.1	241.5	192.3	148.6
77.5°	166.1	166.1	150.8	75.4	71.0
80°	102.7	107.1	44.8	41.5	40.4
82.5°	55.7	49.2	24.0	24.0	22.9
85°	21.9	13.1	13.1	13.1	13.1
87.5°	5.5	5.5	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)