

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: P295374

Luminaire Tested: **LM-15L-935-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A1813875H001)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: iO LED  
Catalog Number: LM-15L-935-120-UNV-S-STD-2F  
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.  
1500 LUMENS PER FOOT, 24 INCH FIXTURE.  
Light Source: (90) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

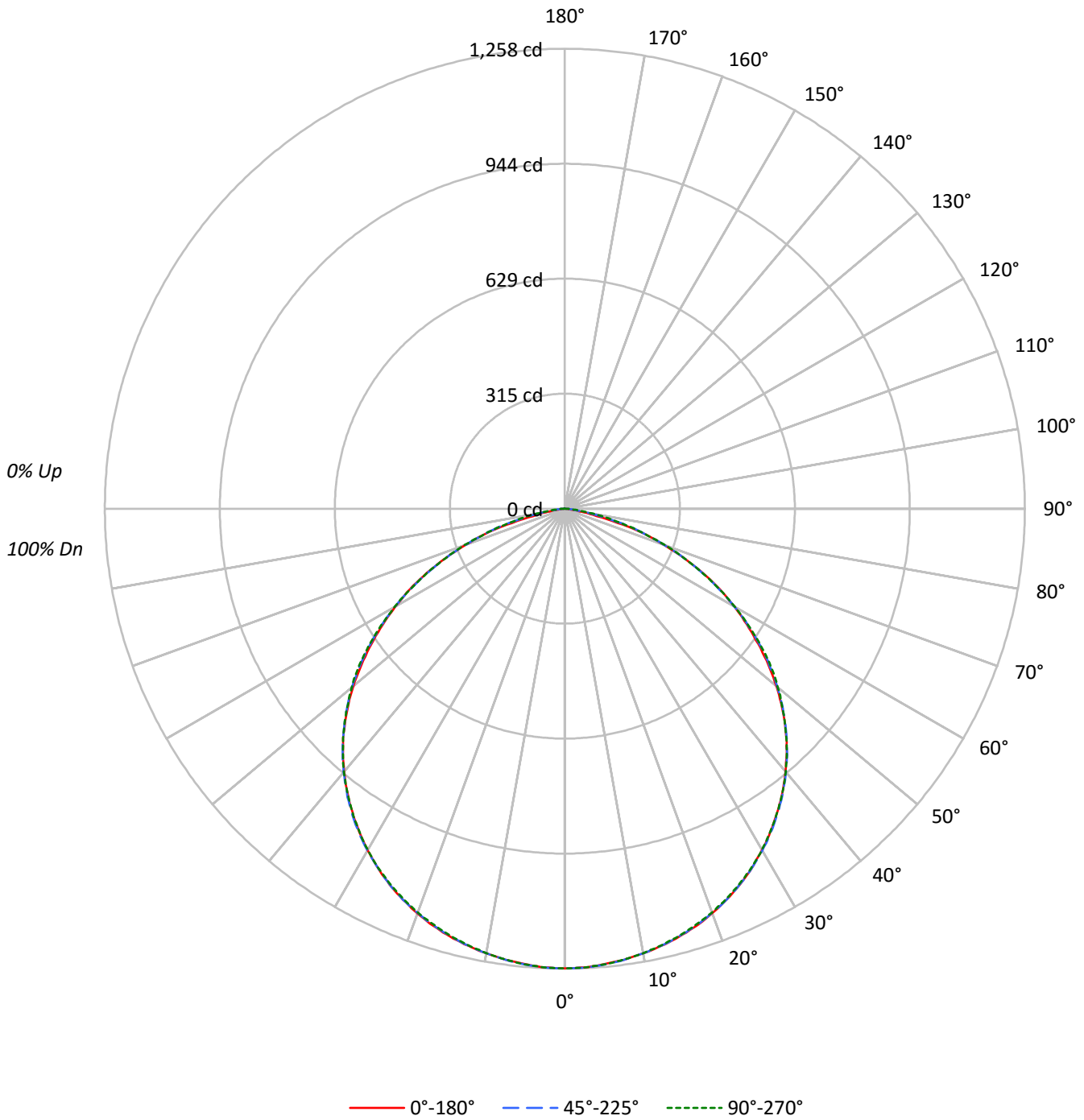
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3465.5 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)  
CIE Type: Direct  
  
Input Watts (W): 28.9  
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: 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	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	54698	54698	54698
5°	54614	54645	54632
10°	54557	54559	54521
15°	54569	54524	54448
20°	54519	54493	54417
25°	54435	54420	54319
30°	54154	54227	54124
35°	53801	53939	53796
40°	53352	53426	53358
45°	52484	52579	52546
50°	51077	51378	51449
55°	48967	49444	49702
60°	46525	46633	46707
65°	42795	42631	42569
70°	36500	36652	37059
75°	25091	28772	28940
80°	10145	15944	19588
85°	4691	5565	9832



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	3.4
10°-20°	341.9	9.9
20°-30°	522.4	15.1
30°-40°	634.7	18.3
40°-50°	658.6	19.0
50°-60°	581.1	16.8
60°-70°	409.2	11.8
70°-80°	178.0	5.1
80°-90°	20.7	0.6
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°	983.2	28.4
0°-40°	1617.9	46.7
0°-60°	2857.6	82.5
0°-90°	3465.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1251	1251	1252	1251	1251	119
15°	1212	1212	1211	1210	1209	342
25°	1134	1134	1134	1133	1132	523
35°	1013	1015	1016	1015	1013	634
45°	853	853	855	856	854	657
55°	646	647	652	656	655	577
65°	416	415	414	414	414	409
75°	149	165	171	172	172	162
85°	9	10	11	14	20	13
90°	2	2	2	2	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°
0°	1257.5	1257.5	1257.5	1257.5
1°	1257.2	1257.5	1257.4	1257.1
2°	1256.2	1256.6	1256.7	1256.4
3°	1255.0	1255.4	1255.2	1255.1
4°	1253.0	1253.5	1253.6	1253.5
5°	1250.8	1251.6	1251.4	1251.2
6°	1248.2	1249.0	1248.9	1248.4
7°	1245.5	1246.2	1246.0	1245.4
8°	1242.4	1243.1	1242.7	1241.9
9°	1238.8	1239.2	1239.0	1238.4
10°	1235.2	1235.6	1234.9	1234.4
11°	1231.2	1231.4	1230.6	1229.6
12°	1226.9	1227.0	1225.9	1225.4
13°	1222.4	1222.2	1221.1	1220.1
14°	1217.4	1217.2	1215.6	1214.8
15°	1211.8	1211.6	1210.0	1209.1
16°	1206.1	1205.7	1204.0	1203.2
17°	1199.7	1199.4	1197.6	1196.3
18°	1193.2	1193.0	1191.3	1189.6
19°	1186.0	1185.9	1183.9	1182.8
20°	1177.8	1178.5	1176.0	1175.6
21°	1170.2	1170.7	1168.6	1167.2
22°	1161.5	1162.0	1160.2	1159.2
23°	1153.1	1153.3	1151.9	1150.0
24°	1143.6	1144.5	1142.6	1141.3
25°	1134.2	1134.5	1133.3	1131.8
26°	1123.7	1124.6	1123.2	1121.6
27°	1113.4	1114.1	1113.2	1111.6
28°	1101.7	1103.2	1102.0	1100.8
29°	1090.0	1091.5	1091.2	1089.6
30°	1078.2	1079.9	1079.4	1077.6
31°	1066.0	1067.8	1068.1	1065.6
32°	1053.5	1055.4	1055.7	1053.0
33°	1040.4	1042.5	1043.2	1039.9
34°	1027.0	1029.2	1030.0	1027.6
35°	1013.2	1015.4	1016.2	1013.1
36°	999.3	1001.2	1001.9	998.8
37°	984.9	987.0	987.7	985.1
38°	970.2	971.6	972.7	970.4
39°	954.3	955.9	957.3	955.3
40°	939.6	940.0	941.8	939.7
41°	922.4	924.1	925.2	923.6
42°	906.8	906.8	909.2	907.2
43°	889.1	889.8	891.8	890.0
44°	872.7	872.0	875.0	872.4



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°
45°	853.2	853.5	856.0	854.2
46°	835.6	835.6	838.3	836.2
47°	815.4	816.6	819.1	817.6
48°	795.6	797.0	800.8	797.9
49°	775.5	777.4	780.4	780.2
50°	754.8	756.9	761.6	760.3
51°	733.7	736.2	740.6	742.0
52°	712.2	714.5	719.3	720.9
53°	690.3	693.5	698.9	700.8
54°	668.1	670.3	677.0	677.1
55°	645.7	648.0	656.0	655.4
56°	623.3	625.0	633.4	631.0
57°	601.0	602.1	610.8	608.4
58°	578.9	578.6	588.4	583.9
59°	557.0	555.2	563.9	561.2
60°	534.8	531.4	540.7	536.9
61°	511.4	507.5	515.8	513.1
62°	489.6	483.9	491.6	488.6
63°	465.2	460.4	466.0	463.7
64°	441.1	437.1	440.4	438.5
65°	415.8	414.1	414.3	413.6
66°	390.5	391.0	389.1	389.2
67°	364.9	367.1	362.9	365.2
68°	338.1	343.0	337.9	341.0
69°	312.3	317.7	312.2	316.1
70°	287.0	289.8	286.6	291.4
71°	262.5	266.5	262.5	265.8
72°	237.9	241.6	237.1	239.1
73°	211.4	218.4	214.1	218.8
74°	181.2	197.0	192.3	194.6
75°	149.3	170.8	171.6	172.2
76°	118.0	136.8	153.4	150.8
77°	88.3	108.1	133.5	131.3
78°	69.8	87.9	115.7	113.3
79°	56.8	66.5	96.6	94.2
80°	40.5	49.5	77.8	78.2
81°	27.2	35.2	59.2	63.1
82°	20.1	27.6	41.6	50.2
83°	15.4	17.4	28.1	39.7
84°	12.1	13.4	17.2	28.6
85°	9.4	10.5	11.8	19.7
86°	6.9	8.0	8.8	13.4
87°	5.2	6.0	6.7	8.6
88°	3.6	4.4	4.9	5.1
89°	2.7	3.2	3.5	2.8



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°
90°	1.8	2.3	2.4	1.2

(END OF REPORT)