

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: P295373

Luminaire Tested: **LM-15L-930-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295373  
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-930-120-UNV-S-STD-2F  
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.  
1500 LUMENS PER FOOT, 24 INCH FIXTURE.  
Light Source: (90) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

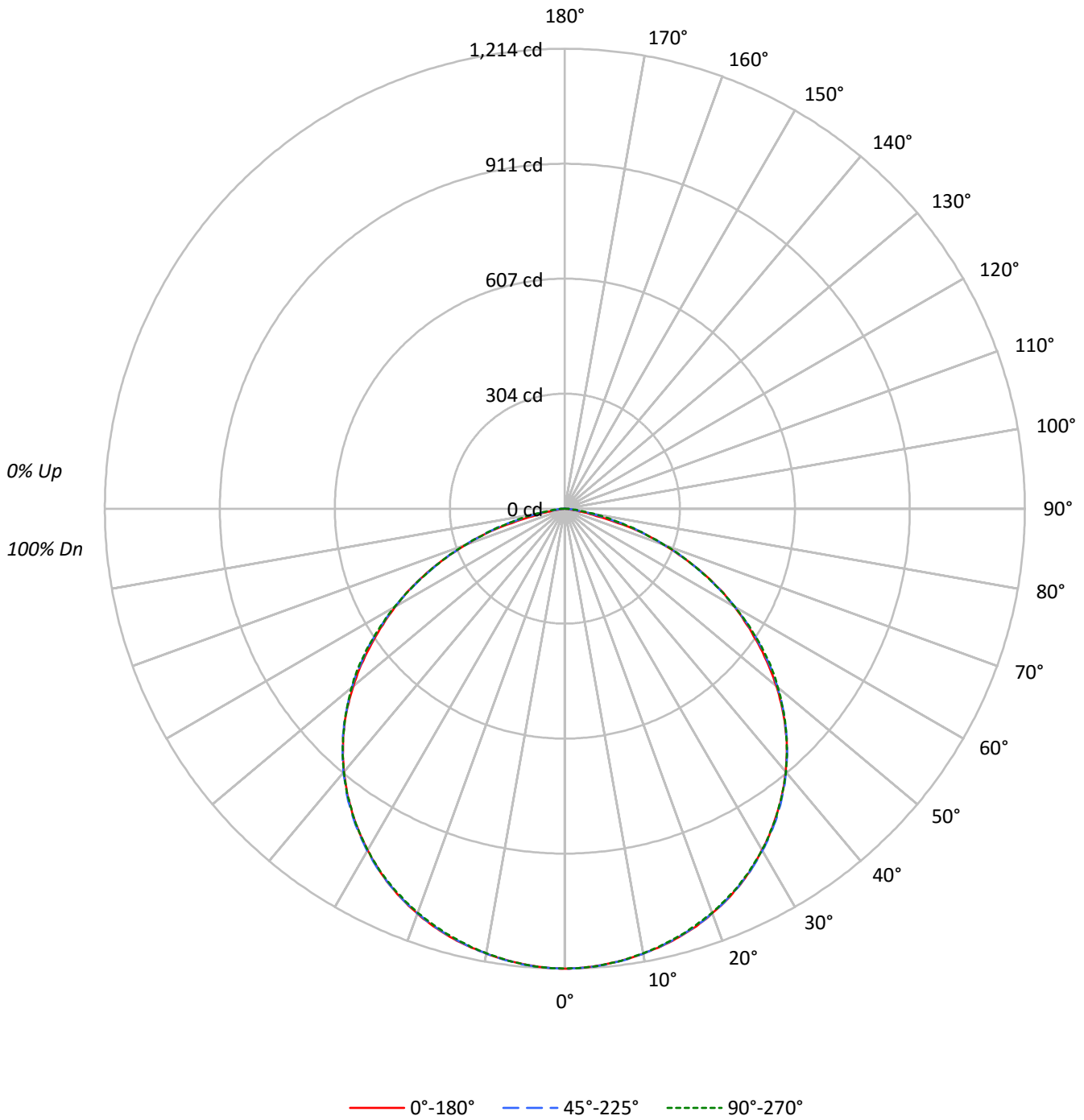
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3346.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72			72	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61			61	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			52	
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			45	
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39			39	
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35			35	
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31			31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28	
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			25	

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

	0°	45°	90°
0°	52814	52814	52814
5°	52728	52761	52750
10°	52675	52677	52640
15°	52687	52642	52570
20°	52640	52612	52538
25°	52563	52544	52448
30°	52285	52358	52255
35°	51948	52081	51943
40°	51512	51586	51524
45°	50675	50765	50737
50°	49318	49609	49676
55°	47276	47738	47988
60°	44924	45024	45098
65°	41324	41159	41107
70°	35241	35387	35775
75°	24217	27789	27932
80°	9794	15393	18937
85°	4542	5365	9482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.8	3.4
10°-20°	330.1	9.9
20°-30°	504.4	15.1
30°-40°	612.8	18.3
40°-50°	635.9	19.0
50°-60°	561.1	16.8
60°-70°	395.1	11.8
70°-80°	171.8	5.1
80°-90°	20.0	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°	949.3	28.4
0°-40°	1562.2	46.7
0°-60°	2759.1	82.5
0°-90°	3346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3346.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1208	1208	1208	1208	1208	115
15°	1170	1170	1169	1168	1167	330
25°	1095	1095	1095	1094	1093	504
35°	978	980	981	980	978	612
45°	824	824	825	826	825	635
55°	623	625	630	633	633	557
65°	402	400	400	400	399	395
75°	144	160	165	166	166	156
85°	9	10	11	13	19	13
90°	2	2	2	2	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°
0°	1214.2	1214.2	1214.2	1214.2
1°	1213.9	1214.1	1214.0	1213.7
2°	1212.9	1213.3	1213.4	1213.0
3°	1211.8	1212.1	1212.0	1211.8
4°	1209.8	1210.2	1210.4	1210.2
5°	1207.6	1208.4	1208.3	1208.1
6°	1205.2	1205.9	1205.8	1205.2
7°	1202.5	1203.2	1203.1	1202.6
8°	1199.6	1200.2	1199.9	1199.0
9°	1196.2	1196.5	1196.3	1195.6
10°	1192.6	1193.0	1192.3	1191.8
11°	1188.7	1189.0	1188.2	1187.2
12°	1184.6	1184.8	1183.6	1183.2
13°	1180.2	1180.0	1179.0	1178.0
14°	1175.4	1175.3	1173.6	1172.8
15°	1170.0	1169.8	1168.2	1167.4
16°	1164.4	1164.1	1162.5	1161.8
17°	1158.4	1158.1	1156.4	1155.0
18°	1152.0	1151.8	1150.2	1148.6
19°	1145.1	1145.0	1143.1	1142.0
20°	1137.2	1137.8	1135.4	1135.0
21°	1129.8	1130.4	1128.3	1127.0
22°	1121.5	1121.9	1120.2	1119.3
23°	1113.4	1113.6	1112.2	1110.4
24°	1104.1	1105.0	1103.2	1101.9
25°	1095.2	1095.4	1094.2	1092.8
26°	1085.0	1085.8	1084.4	1083.0
27°	1075.0	1075.7	1074.8	1073.2
28°	1063.7	1065.2	1064.0	1062.8
29°	1052.4	1053.9	1053.6	1052.0
30°	1041.0	1042.7	1042.2	1040.4
31°	1029.3	1031.0	1031.3	1028.8
32°	1017.2	1019.0	1019.2	1016.6
33°	1004.6	1006.5	1007.2	1004.0
34°	991.6	993.7	994.5	992.1
35°	978.3	980.4	981.2	978.2
36°	964.8	966.7	967.3	964.4
37°	951.0	953.0	953.6	951.2
38°	936.8	938.0	939.2	936.9
39°	921.4	923.0	924.3	922.4
40°	907.2	907.6	909.4	907.4
41°	890.6	892.2	893.4	891.8
42°	875.6	875.5	877.8	875.8
43°	858.4	859.1	861.0	859.3
44°	842.6	841.9	844.8	842.2



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°
45°	823.8	824.0	826.5	824.8
46°	806.8	806.8	809.4	807.3
47°	787.3	788.4	790.8	789.4
48°	768.1	769.6	773.2	770.4
49°	748.8	750.5	753.5	753.2
50°	728.8	730.8	735.4	734.1
51°	708.4	710.9	715.1	716.4
52°	687.7	689.9	694.6	696.1
53°	666.6	669.6	674.8	676.6
54°	645.1	647.2	653.7	653.8
55°	623.4	625.7	633.3	632.8
56°	601.8	603.5	611.5	609.2
57°	580.2	581.3	589.7	587.5
58°	559.0	558.6	568.2	563.8
59°	537.8	536.1	544.5	542.0
60°	516.4	513.0	522.1	518.4
61°	493.7	490.0	498.0	495.4
62°	472.8	467.3	474.7	471.8
63°	449.2	444.5	449.9	447.7
64°	425.9	422.0	425.2	423.4
65°	401.5	399.8	400.0	399.4
66°	377.0	377.6	375.7	375.8
67°	352.4	354.4	350.4	352.6
68°	326.4	331.2	326.3	329.3
69°	301.5	306.7	301.4	305.2
70°	277.1	279.8	276.7	281.3
71°	253.5	257.3	253.4	256.6
72°	229.7	233.3	228.9	230.8
73°	204.1	210.9	206.7	211.3
74°	175.0	190.2	185.7	188.0
75°	144.1	165.0	165.7	166.2
76°	113.9	132.0	148.0	145.6
77°	85.2	104.4	128.9	126.8
78°	67.4	84.9	111.8	109.4
79°	54.8	64.2	93.3	91.0
80°	39.1	47.8	75.1	75.6
81°	26.3	34.0	57.1	60.9
82°	19.4	26.6	40.2	48.4
83°	14.9	16.8	27.1	38.3
84°	11.7	12.9	16.6	27.6
85°	9.1	10.1	11.4	19.0
86°	6.6	7.8	8.6	13.0
87°	5.0	5.8	6.5	8.2
88°	3.6	4.2	4.7	4.9
89°	2.6	3.1	3.4	2.6



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°
90°	1.8	2.2	2.3	1.2

(END OF REPORT)