

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: P295372

Luminaire Tested: **LM-15L-927-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295372
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-927-120-UNV-S-STD-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 2700K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

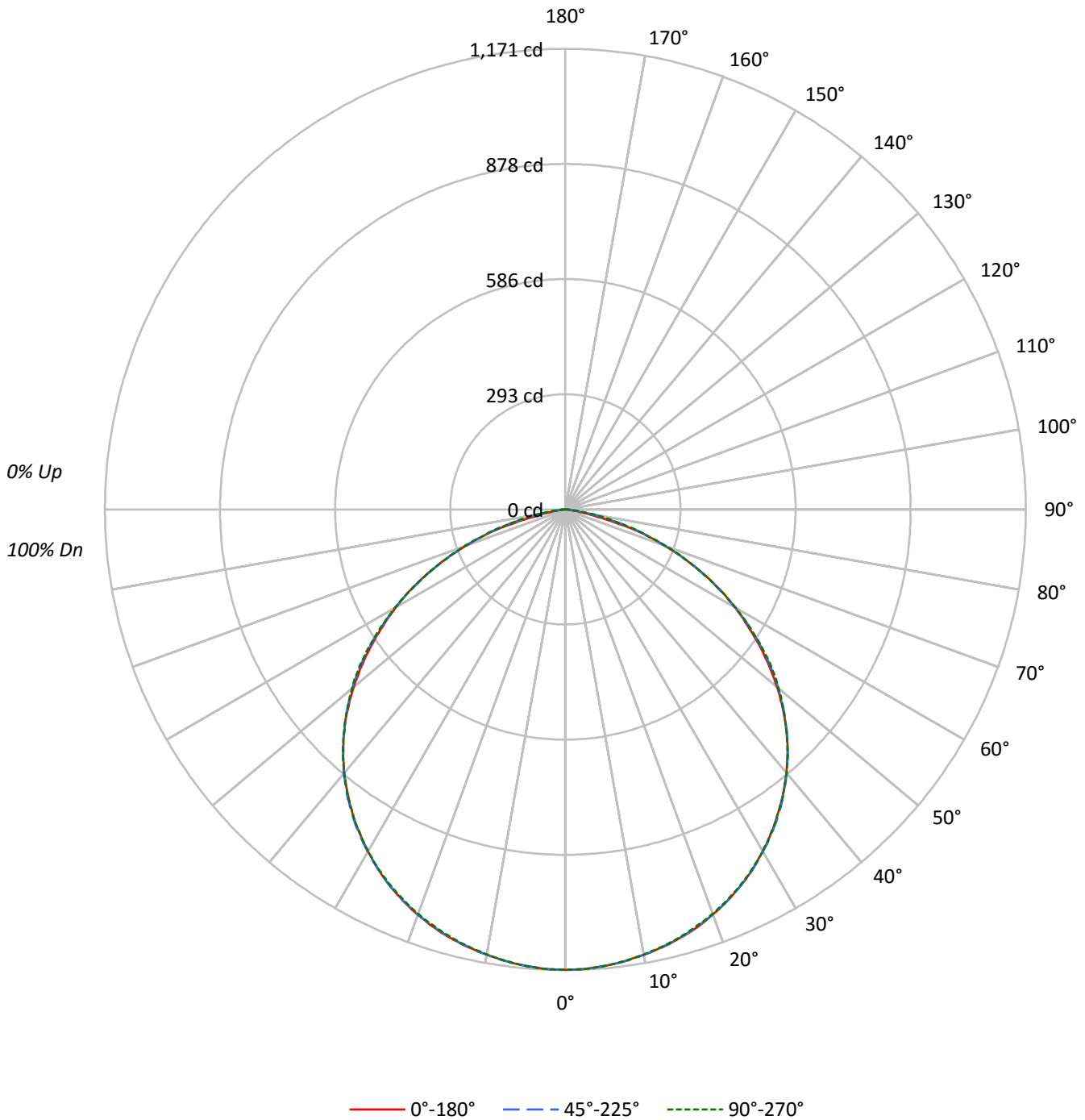
Lumens per Lamp: N/A
Luminaire Lumens: 3226.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (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: 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°	50926	50926	50926
5°	50846	50877	50868
10°	50793	50796	50758
15°	50805	50762	50688
20°	50760	50735	50663
25°	50681	50669	50576
30°	50417	50490	50387
35°	50095	50222	50084
40°	49672	49741	49678
45°	48867	48953	48922
50°	47558	47839	47903
55°	45584	46036	46275
60°	43323	43415	43480
65°	39852	39692	39625
70°	33982	34122	34490
75°	23360	26789	26940
80°	9443	14842	18236
85°	4392	5190	9133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.4
10°-20°	318.3	9.9
20°-30°	486.4	15.1
30°-40°	590.9	18.3
40°-50°	613.2	19.0
50°-60°	541.0	16.8
60°-70°	381.0	11.8
70°-80°	165.7	5.1
80°-90°	19.3	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°	915.4	28.4
0°-40°	1506.4	46.7
0°-60°	2660.6	82.5
0°-90°	3226.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3226.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1164	1165	1165	1165	1165	111
15°	1128	1128	1127	1126	1126	319
25°	1056	1056	1056	1055	1054	486
35°	943	945	946	945	943	590
45°	794	795	796	797	795	612
55°	601	603	607	611	610	537
65°	387	386	386	386	385	381
75°	139	154	159	160	160	151
85°	9	10	10	13	18	13
90°	2	2	2	2	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	1170.8	1170.8	1170.8	1170.8
1°	1170.6	1170.8	1170.7	1170.4
2°	1169.6	1170.0	1170.0	1169.7
3°	1168.5	1168.8	1168.7	1168.4
4°	1166.6	1167.0	1167.2	1167.0
5°	1164.5	1165.3	1165.1	1165.0
6°	1162.2	1162.9	1162.8	1162.2
7°	1159.6	1160.2	1160.1	1159.6
8°	1156.7	1157.3	1157.0	1156.2
9°	1153.4	1153.8	1153.6	1152.9
10°	1150.0	1150.4	1149.7	1149.2
11°	1146.3	1146.5	1145.7	1144.8
12°	1142.3	1142.4	1141.4	1140.8
13°	1138.0	1137.9	1136.8	1135.9
14°	1133.4	1133.3	1131.7	1131.0
15°	1128.2	1128.0	1126.5	1125.6
16°	1122.8	1122.5	1121.0	1120.3
17°	1117.0	1116.7	1115.0	1113.8
18°	1110.8	1110.7	1109.2	1107.6
19°	1104.2	1104.1	1102.3	1101.3
20°	1096.6	1097.2	1094.9	1094.5
21°	1089.5	1090.0	1088.0	1086.8
22°	1081.4	1081.8	1080.3	1079.3
23°	1073.6	1073.8	1072.5	1070.6
24°	1064.7	1065.5	1063.8	1062.6
25°	1056.0	1056.3	1055.2	1053.8
26°	1046.2	1047.0	1045.7	1044.3
27°	1036.6	1037.3	1036.4	1034.9
28°	1025.7	1027.1	1026.0	1024.8
29°	1014.8	1016.3	1016.0	1014.4
30°	1003.8	1005.5	1005.0	1003.2
31°	992.6	994.1	994.5	992.0
32°	980.8	982.6	982.9	980.4
33°	968.7	970.6	971.2	968.2
34°	956.2	958.2	959.0	956.7
35°	943.4	945.4	946.2	943.2
36°	930.4	932.2	932.8	929.9
37°	917.0	918.9	919.6	917.2
38°	903.4	904.5	905.6	903.4
39°	888.5	890.0	891.3	889.4
40°	874.8	875.2	876.8	874.9
41°	858.8	860.3	861.5	860.0
42°	844.4	844.2	846.5	844.6
43°	827.8	828.4	830.3	828.6
44°	812.5	811.8	814.6	812.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	794.4	794.6	797.0	795.3
46°	778.0	778.0	780.5	778.5
47°	759.2	760.2	762.6	761.2
48°	740.7	742.1	745.6	742.9
49°	722.0	723.7	726.6	726.3
50°	702.8	704.8	709.1	707.9
51°	683.0	685.5	689.5	690.8
52°	663.2	665.2	669.8	671.2
53°	642.7	645.6	650.7	652.4
54°	622.0	624.1	630.4	630.4
55°	601.1	603.4	610.7	610.2
56°	580.3	581.9	589.7	587.4
57°	559.5	560.6	568.6	566.5
58°	539.0	538.6	547.9	543.7
59°	518.6	517.0	525.0	522.6
60°	498.0	494.7	503.4	499.8
61°	476.1	472.5	480.2	477.7
62°	455.8	450.6	457.8	454.9
63°	433.2	428.6	433.8	431.8
64°	410.7	407.0	410.0	408.3
65°	387.2	385.6	385.7	385.0
66°	363.6	364.1	362.3	362.4
67°	339.8	341.8	337.9	340.0
68°	314.8	319.3	314.6	317.5
69°	290.8	295.8	290.6	294.3
70°	267.2	269.8	266.8	271.2
71°	244.4	248.2	244.4	247.4
72°	221.5	225.0	220.7	222.6
73°	196.8	203.4	199.3	203.8
74°	168.7	183.4	179.1	181.2
75°	139.0	159.0	159.8	160.3
76°	109.8	127.4	142.7	140.5
77°	82.2	100.6	124.3	122.2
78°	65.0	81.9	107.7	105.5
79°	52.8	61.9	89.9	87.8
80°	37.7	46.1	72.4	72.8
81°	25.4	32.8	55.1	58.7
82°	18.7	25.7	38.8	46.7
83°	14.4	16.2	26.2	37.0
84°	11.3	12.4	16.0	26.6
85°	8.8	9.8	11.0	18.3
86°	6.4	7.5	8.2	12.5
87°	4.9	5.6	6.2	8.0
88°	3.4	4.1	4.6	4.8
89°	2.5	3.0	3.2	2.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	1.7	2.1	2.2	1.2

(END OF REPORT)