

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: P295375

Luminaire Tested: **LM-15L-940-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295375
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-940-120-UNV-S-STD-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 4000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

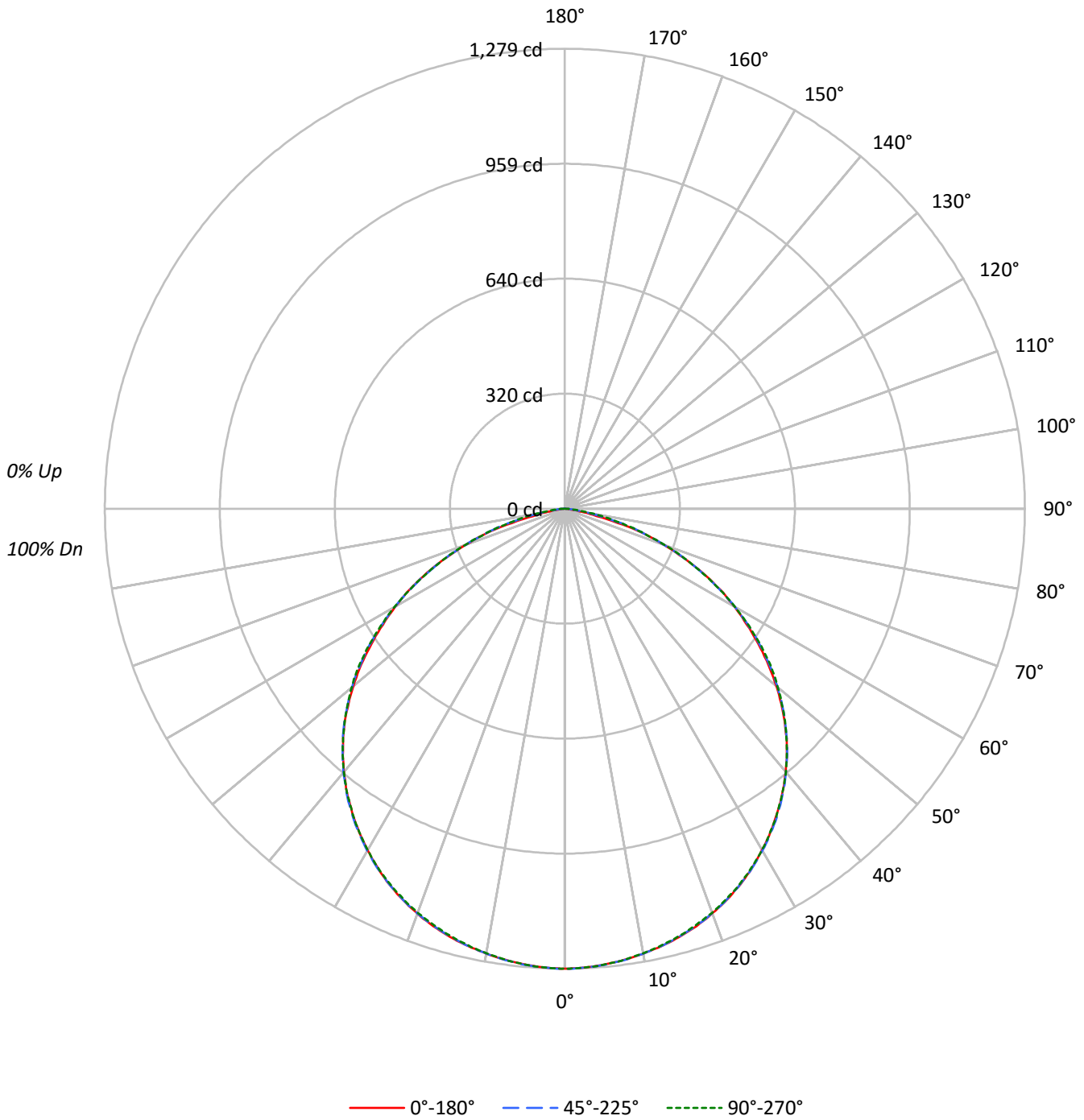
Lumens per Lamp: N/A
Luminaire Lumens: 3525.3 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

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°	55642	55642	55642
5°	55557	55588	55575
10°	55502	55500	55458
15°	55515	55463	55384
20°	55463	55433	55352
25°	55375	55358	55255
30°	55088	55163	55053
35°	54730	54871	54725
40°	54272	54346	54277
45°	53394	53487	53450
50°	51957	52268	52336
55°	49801	50294	50567
60°	47325	47434	47516
65°	43536	43367	43300
70°	37123	37282	37695
75°	25512	29276	29444
80°	10320	16207	19939
85°	4791	5664	9981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.4
10°-20°	347.8	9.9
20°-30°	531.4	15.1
30°-40°	645.7	18.3
40°-50°	669.9	19.0
50°-60°	591.1	16.8
60°-70°	416.3	11.8
70°-80°	181.0	5.1
80°-90°	21.0	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°	1000.2	28.4
0°-40°	1645.8	46.7
0°-60°	2906.9	82.5
0°-90°	3525.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1272	1273	1273	1273	1273	121
15°	1233	1233	1232	1231	1230	348
25°	1154	1154	1153	1152	1151	532
35°	1031	1032	1033	1033	1031	645
45°	868	868	870	870	869	669
55°	657	659	663	667	667	587
65°	423	422	421	421	421	416
75°	152	168	174	175	175	164
85°	10	10	11	14	20	14
90°	2	2	2	2	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	1279.2	1279.2	1279.2	1279.2
1°	1278.9	1279.2	1279.1	1278.8
2°	1277.9	1278.3	1278.4	1278.0
3°	1276.7	1277.0	1276.9	1276.7
4°	1274.6	1275.1	1275.2	1275.1
5°	1272.4	1273.2	1273.0	1272.8
6°	1269.8	1270.5	1270.4	1269.9
7°	1267.0	1267.6	1267.5	1266.9
8°	1263.8	1264.5	1264.2	1263.2
9°	1260.2	1260.6	1260.4	1259.6
10°	1256.6	1256.9	1256.2	1255.6
11°	1252.4	1252.6	1251.8	1250.8
12°	1248.1	1248.2	1247.0	1246.6
13°	1243.4	1243.2	1242.2	1241.0
14°	1238.4	1238.2	1236.5	1235.7
15°	1232.8	1232.5	1230.8	1229.9
16°	1226.9	1226.5	1224.8	1224.0
17°	1220.4	1220.1	1218.3	1216.9
18°	1213.7	1213.5	1211.8	1210.1
19°	1206.4	1206.4	1204.4	1203.2
20°	1198.2	1198.8	1196.3	1195.8
21°	1190.4	1190.9	1188.8	1187.4
22°	1181.6	1182.0	1180.3	1179.2
23°	1173.0	1173.2	1171.8	1169.8
24°	1163.2	1164.2	1162.3	1161.0
25°	1153.8	1154.1	1152.8	1151.3
26°	1143.1	1143.9	1142.5	1141.0
27°	1132.6	1133.3	1132.3	1130.7
28°	1120.6	1122.2	1121.0	1119.8
29°	1108.8	1110.4	1110.1	1108.4
30°	1096.8	1098.6	1098.0	1096.1
31°	1084.4	1086.2	1086.6	1083.9
32°	1071.6	1073.6	1073.9	1071.1
33°	1058.4	1060.4	1061.1	1057.8
34°	1044.7	1047.0	1047.8	1045.2
35°	1030.7	1032.9	1033.8	1030.6
36°	1016.6	1018.5	1019.2	1016.0
37°	1001.9	1004.0	1004.7	1002.0
38°	987.0	988.3	989.5	987.0
39°	970.8	972.4	973.8	971.8
40°	955.8	956.2	958.0	955.9
41°	938.4	940.0	941.2	939.6
42°	922.5	922.4	924.9	922.8
43°	904.4	905.1	907.2	905.3
44°	887.7	887.0	890.0	887.4



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	868.0	868.2	870.8	868.9
46°	850.0	850.1	852.8	850.6
47°	829.4	830.6	833.2	831.7
48°	809.2	810.8	814.7	811.7
49°	788.9	790.8	793.8	793.6
50°	767.8	770.0	774.8	773.4
51°	746.3	749.0	753.4	754.8
52°	724.5	726.8	731.8	733.4
53°	702.2	705.4	711.0	712.8
54°	679.7	681.9	688.7	688.8
55°	656.7	659.2	667.2	666.8
56°	634.0	635.8	644.3	641.8
57°	611.4	612.4	621.3	619.0
58°	588.8	588.5	598.6	594.0
59°	566.6	564.8	573.6	571.0
60°	544.0	540.5	550.0	546.2
61°	520.2	516.2	524.7	522.0
62°	498.1	492.3	500.2	497.0
63°	473.2	468.4	474.0	471.7
64°	448.7	444.6	448.0	446.0
65°	423.0	421.3	421.4	420.7
66°	397.2	397.8	395.8	396.0
67°	371.2	373.4	369.2	371.4
68°	343.9	348.9	343.8	346.9
69°	317.7	323.1	317.6	321.6
70°	291.9	294.7	291.6	296.4
71°	267.0	271.1	267.0	270.3
72°	242.0	245.8	241.2	243.2
73°	215.0	222.2	217.8	222.6
74°	184.4	200.4	195.6	198.0
75°	151.8	173.8	174.6	175.2
76°	120.0	139.1	155.9	153.5
77°	89.8	110.0	135.8	133.6
78°	71.0	89.4	117.8	115.2
79°	57.8	67.6	98.2	95.9
80°	41.2	50.3	79.1	79.6
81°	27.7	35.8	60.2	64.2
82°	20.4	28.1	42.4	51.0
83°	15.7	17.7	28.6	40.4
84°	12.3	13.6	17.5	29.0
85°	9.6	10.7	12.0	20.0
86°	7.0	8.2	9.0	13.6
87°	5.3	6.1	6.8	8.7
88°	3.8	4.4	5.0	5.2
89°	2.8	3.2	3.6	2.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	1.8	2.3	2.5	1.2

(END OF REPORT)