

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: P295367

Luminaire Tested: **LM-10L-940-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1813875F001)
Test Lab: INNOVATION 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-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 4000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

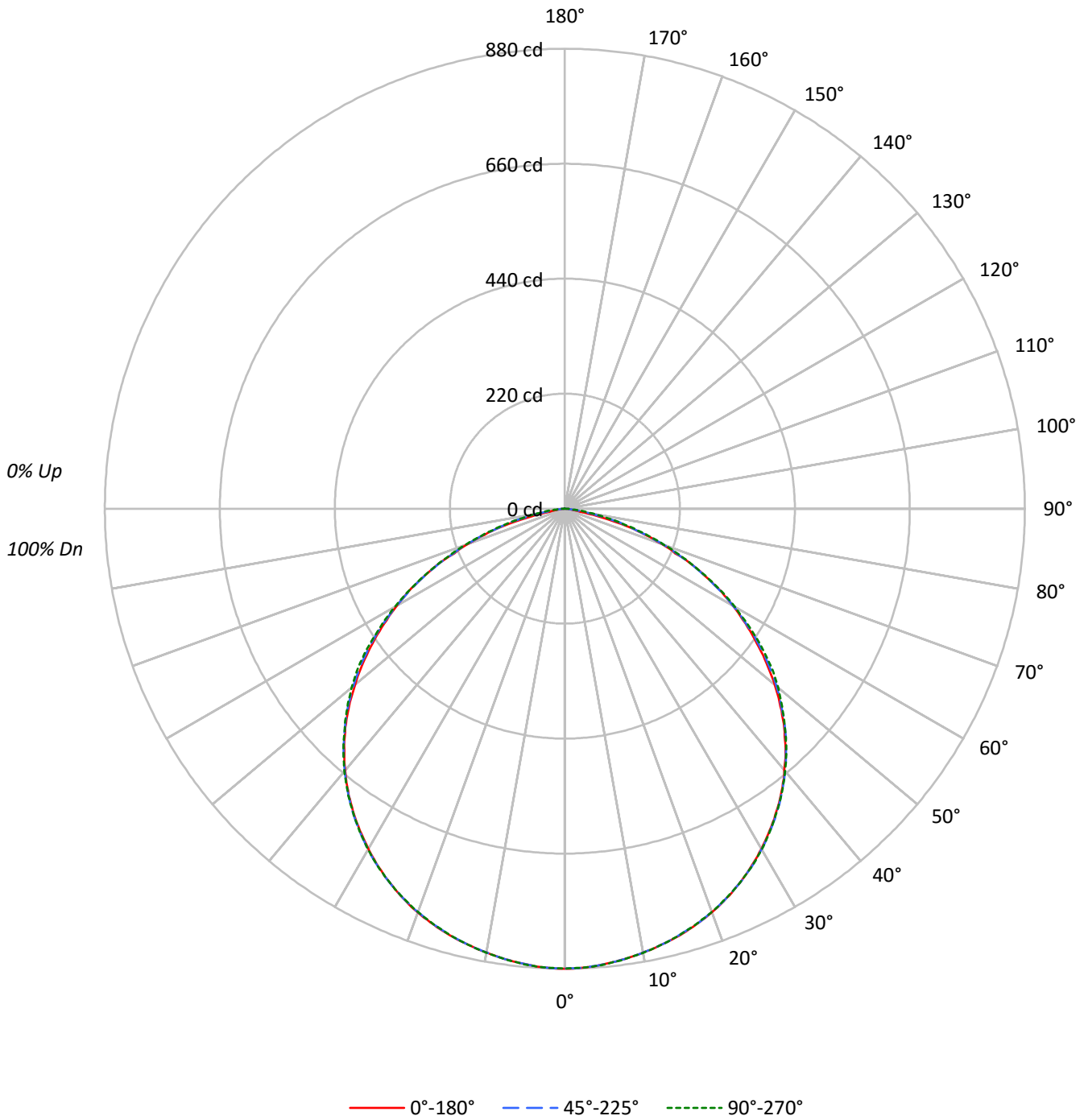
Lumens per Lamp: N/A
Luminaire Lumens: 2411.1 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

Input Watts (W): 18.8
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



TEST NUMBER: P295367
CATALOG NUMBER: LM-10L-940-120-UNV-S-STD-2F

Luminous Intensity Polar Plot





TEST NUMBER: P295367

CATALOG NUMBER: LM-10L-940-120-UNV-S-STD-2F

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	80	72	66	77	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	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	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°	38282	38282	38282
5°	38205	38197	38214
10°	38099	38099	38108
15°	38088	38052	38061
20°	38045	38022	38003
25°	37939	37956	37949
30°	37760	37815	37830
35°	37505	37587	37563
40°	37101	37220	37237
45°	36515	36635	36638
50°	35472	35760	36034
55°	34020	34399	34748
60°	32292	32331	32658
65°	29549	29477	29693
70°	24939	25302	25690
75°	18638	19697	20302
80°	5210	10020	13702
85°	2945	3518	6638



TEST NUMBER: P295367
 CATALOG NUMBER: LM-10L-940-120-UNV-S-STD-2F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.4
10°-20°	238.7	9.9
20°-30°	364.5	15.1
30°-40°	442.5	18.4
40°-50°	458.8	19.0
50°-60°	404.4	16.8
60°-70°	283.1	11.7
70°-80°	122.9	5.1
80°-90°	13.1	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°	686.3	28.5
0°-40°	1128.7	46.8
0°-60°	1991.9	82.6
0°-90°	2411.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	875	875	875	875	875	83
15°	846	845	845	845	845	239
25°	790	791	791	791	791	364
35°	706	707	708	708	707	442
45°	594	594	596	596	596	457
55°	449	450	454	457	458	401
65°	287	286	286	287	288	282
75°	111	115	117	119	121	112
85°	6	6	7	9	13	8
90°	1	1	1	1	1	



TEST NUMBER: P295367

CATALOG NUMBER: LM-10L-940-120-UNV-S-STD-2F

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	880.1	880.1	880.1	880.1
1°	880.4	879.8	879.8	879.6
2°	879.6	879.2	879.1	879.0
3°	878.4	878.1	878.2	878.4
4°	876.6	876.5	876.9	877.1
5°	875.0	874.5	875.1	875.2
6°	872.6	872.7	873.1	873.2
7°	870.6	870.4	870.8	871.2
8°	868.1	867.8	868.4	868.6
9°	865.6	865.3	865.6	865.8
10°	862.6	862.4	862.8	862.8
11°	859.8	859.4	859.7	859.6
12°	856.5	856.3	856.3	856.2
13°	853.2	852.7	852.9	852.7
14°	849.7	849.1	848.8	849.1
15°	845.8	845.2	844.8	845.2
16°	841.6	841.0	841.0	840.4
17°	837.0	836.6	836.2	836.4
18°	832.2	832.1	831.8	831.4
19°	827.6	827.1	826.6	826.6
20°	821.9	821.6	821.2	821.0
21°	816.7	816.2	815.8	815.8
22°	810.6	810.2	810.0	809.8
23°	804.3	804.3	803.4	803.6
24°	797.6	797.7	797.4	797.6
25°	790.5	791.0	790.7	790.7
26°	783.4	783.9	784.0	783.8
27°	776.0	776.7	776.5	776.8
28°	768.2	768.9	769.2	769.2
29°	760.2	760.9	761.2	761.0
30°	751.8	752.6	753.2	753.2
31°	743.1	744.3	745.1	744.4
32°	734.3	735.4	736.2	735.4
33°	725.3	725.9	727.4	726.4
34°	716.0	716.9	718.0	716.8
35°	706.3	707.1	708.6	707.4
36°	696.5	697.6	698.2	697.7
37°	686.6	687.2	688.5	688.0
38°	675.8	676.9	677.6	677.3
39°	665.0	666.0	667.3	666.6
40°	653.4	655.0	656.0	655.8
41°	642.6	643.4	645.0	644.4
42°	630.5	631.8	633.1	632.9
43°	619.0	619.7	621.5	621.1
44°	605.8	607.7	609.0	608.8



TEST NUMBER: P295367

CATALOG NUMBER: LM-10L-940-120-UNV-S-STD-2F

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	593.6	594.5	596.6	595.6
46°	580.1	581.6	584.0	583.7
47°	566.6	568.6	571.1	570.6
48°	552.8	554.9	557.6	558.4
49°	538.6	541.0	544.2	545.0
50°	524.2	526.7	530.2	532.5
51°	509.5	512.2	516.4	518.6
52°	494.4	496.7	502.0	505.2
53°	479.3	481.8	487.7	489.8
54°	464.0	465.7	472.2	474.2
55°	448.6	450.2	457.0	458.2
56°	433.0	433.7	441.2	441.6
57°	417.4	417.4	425.6	424.5
58°	401.8	401.1	409.0	408.7
59°	386.6	384.4	392.7	391.2
60°	371.2	367.8	375.5	375.4
61°	354.8	351.4	358.0	358.2
62°	339.2	335.1	341.2	342.1
63°	322.0	318.4	323.2	324.0
64°	304.6	302.2	305.3	306.4
65°	287.1	285.7	287.1	288.5
66°	269.9	269.9	268.9	271.1
67°	251.4	252.8	251.6	254.0
68°	227.9	232.6	232.6	236.4
69°	214.4	217.5	216.1	219.6
70°	196.1	200.1	197.8	202.0
71°	178.8	181.7	181.3	185.8
72°	162.1	163.9	163.8	168.1
73°	146.0	146.4	147.5	152.8
74°	128.8	130.8	132.1	136.2
75°	110.9	116.5	117.9	120.8
76°	86.2	103.9	104.9	104.8
77°	63.8	85.0	91.8	90.1
78°	47.0	61.8	78.9	77.7
79°	29.7	44.9	65.8	65.5
80°	20.8	25.5	54.5	54.7
81°	15.8	18.0	41.7	46.6
82°	12.7	13.7	29.4	33.9
83°	10.2	11.0	16.9	25.8
84°	8.0	8.6	10.6	19.9
85°	5.9	6.6	7.5	13.3
86°	4.4	4.8	5.6	9.2
87°	3.1	3.5	4.1	5.7
88°	2.0	2.4	2.9	3.2
89°	1.3	1.5	1.9	1.7



TEST NUMBER: P295367

CATALOG NUMBER: LM-10L-940-120-UNV-S-STD-2F

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.7	1.0	1.2	0.8

(END OF REPORT)