

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: P364401

Luminaire Tested: **LM-10L-930-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-518-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-10L-930-120-UNV-S-STD-4F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 48 INCH FIXTURE.
Light Source: (180) 3000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

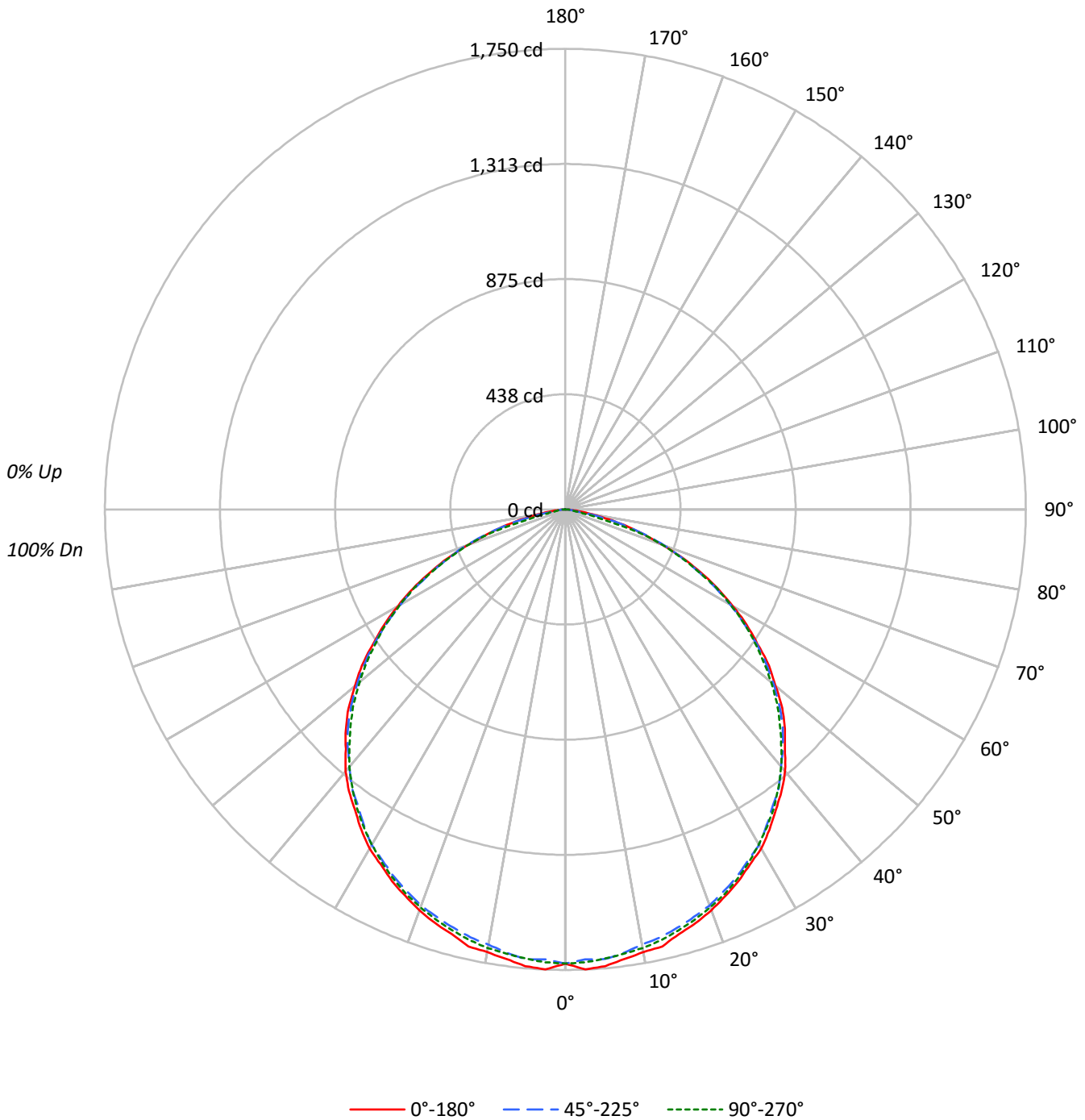
Lumens per Lamp: N/A
Luminaire Lumens: 4705.8 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	93	90	91	89	88	86
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37148	37148	37148
5°	37649	37068	37022
10°	37337	36703	36996
15°	37211	36680	36910
20°	37134	36706	36873
25°	36998	36604	36777
30°	36991	36581	36554
35°	36630	36112	36330
40°	36517	35876	35876
45°	35928	35581	35109
50°	34942	34593	34175
55°	33475	33201	32927
60°	31659	31168	31211
65°	29000	28317	28368
70°	24542	25259	24674
75°	19322	19064	11728
80°	12087	5269	4761
85°	5113	3063	3063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.5
10°-20°	468.1	9.9
20°-30°	713.7	15.2
30°-40°	865.2	18.4
40°-50°	896.7	19.1
50°-60°	791.5	16.8
60°-70°	557.9	11.9
70°-80°	227.0	4.8
80°-90°	22.6	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°	1345.1	28.6
0°-40°	2210.3	47.0
0°-60°	3898.4	82.8
0°-90°	4705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4705.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1742	1722	1715	1720	1713	165
15°	1670	1662	1646	1661	1656	472
25°	1558	1552	1541	1548	1548	718
35°	1394	1384	1374	1383	1382	874
45°	1180	1166	1169	1157	1153	908
55°	892	894	885	879	877	799
65°	569	570	556	563	557	561
75°	232	225	229	182	141	248
85°	21	12	12	12	12	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.6	1725.6	1725.6	1725.6	1725.6
2.5°	1749.5	1726.7	1711.1	1723.6	1722.5
5°	1742.2	1721.5	1715.3	1720.4	1713.2
7.5°	1722.5	1716.3	1699.7	1711.1	1702.8
10°	1708.0	1697.6	1679.0	1691.4	1692.4
12.5°	1700.7	1675.9	1665.5	1680.0	1676.9
15°	1669.6	1662.4	1645.8	1661.3	1656.1
17.5°	1647.9	1641.6	1624.0	1634.4	1634.4
20°	1620.9	1612.6	1602.2	1611.6	1609.5
22.5°	1589.8	1581.5	1571.1	1582.5	1581.5
25°	1557.6	1552.4	1541.0	1548.3	1548.3
27.5°	1520.3	1517.2	1503.7	1509.9	1511.0
30°	1488.1	1477.8	1471.6	1471.6	1470.5
32.5°	1443.6	1431.1	1423.9	1428.0	1428.0
35°	1393.8	1384.4	1374.1	1383.4	1382.4
37.5°	1350.2	1333.6	1332.6	1329.5	1330.5
40°	1299.4	1277.6	1276.6	1280.7	1276.6
42.5°	1235.1	1221.6	1223.7	1221.6	1214.4
45°	1180.1	1165.6	1168.7	1157.3	1153.2
47.5°	1117.9	1101.3	1103.4	1094.1	1091.0
50°	1043.3	1037.0	1032.9	1026.7	1020.4
52.5°	974.8	973.8	961.3	957.2	949.9
55°	891.9	893.9	884.6	879.4	877.3
57.5°	817.2	822.4	803.7	801.6	805.8
60°	735.3	742.5	723.9	725.9	724.9
62.5°	653.3	658.5	641.9	650.2	647.1
65°	569.3	570.4	555.9	563.1	556.9
67.5°	483.3	486.4	478.1	481.2	473.9
70°	389.9	387.9	401.3	395.1	392.0
72.5°	308.0	304.9	313.2	312.1	294.5
75°	232.3	225.0	229.2	182.5	141.0
77.5°	157.6	157.6	143.1	71.6	67.4
80°	97.5	101.6	42.5	39.4	38.4
82.5°	52.9	46.7	22.8	22.8	21.8
85°	20.7	12.4	12.4	12.4	12.4
87.5°	5.2	5.2	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)