

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: P295366

Luminaire Tested: **LM-10L-935-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295366
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-935-120-UNV-S-STD-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 3500K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

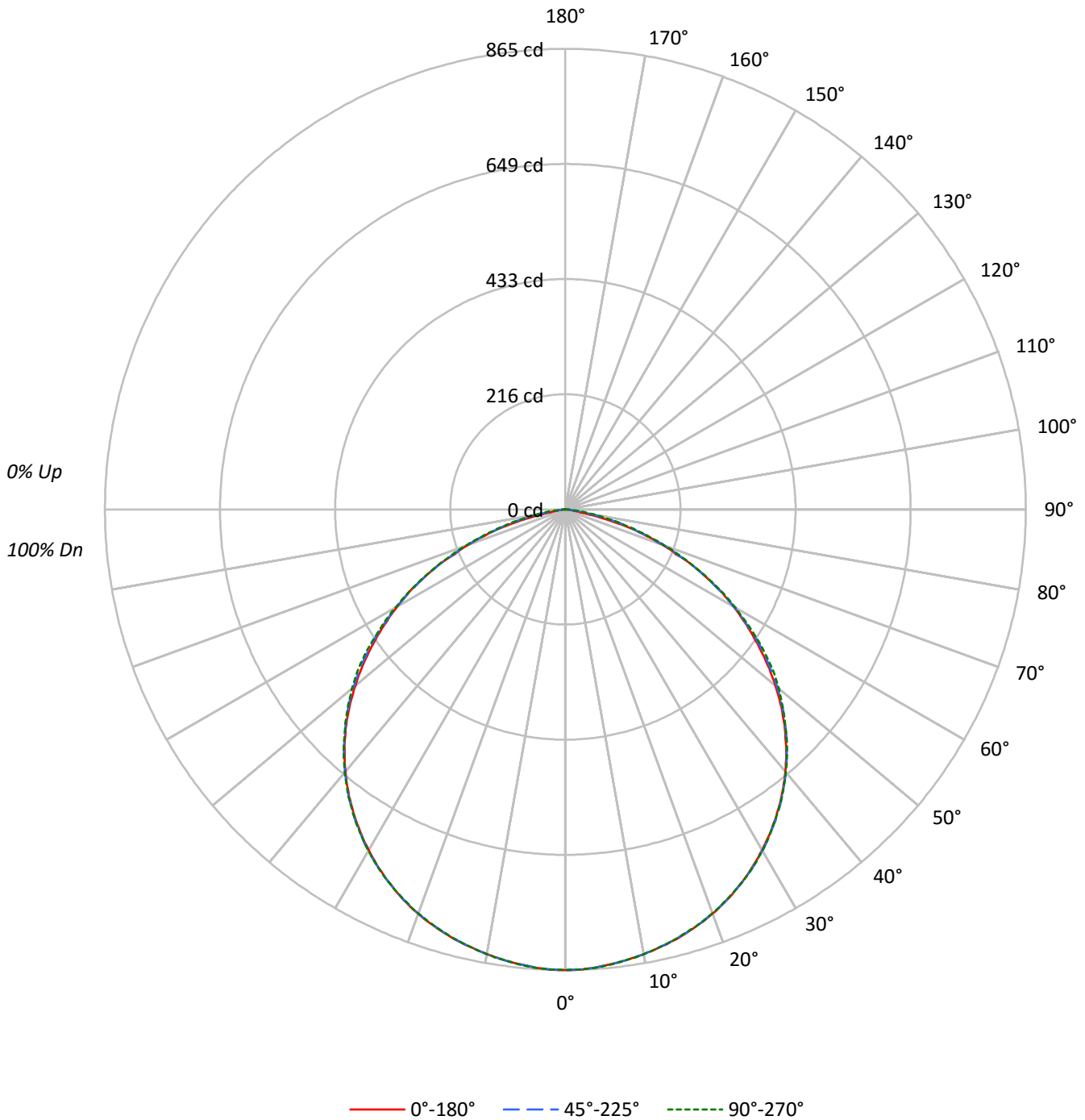
Lumens per Lamp: N/A
Luminaire Lumens: 2370.2 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (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	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°	37634	37634	37634
5°	37555	37550	37568
10°	37455	37455	37463
15°	37439	37408	37417
20°	37401	37374	37364
25°	37291	37310	37306
30°	37117	37175	37187
35°	36873	36950	36926
40°	36476	36587	36601
45°	35900	36014	36023
50°	34870	35154	35418
55°	33443	33819	34156
60°	31744	31779	32110
65°	29045	28978	29189
70°	24520	24882	25245
75°	18319	19369	19966
80°	5135	9857	13476
85°	2945	3469	6588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.4
10°-20°	234.6	9.9
20°-30°	358.3	15.1
30°-40°	435.0	18.4
40°-50°	451.0	19.0
50°-60°	397.6	16.8
60°-70°	278.3	11.7
70°-80°	120.8	5.1
80°-90°	12.9	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°	674.6	28.5
0°-40°	1109.6	46.8
0°-60°	1958.2	82.6
0°-90°	2370.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2370.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	860	860	860	860	860	82
15°	831	831	831	831	831	235
25°	777	777	777	777	777	358
35°	694	695	696	696	695	434
45°	584	584	585	586	586	449
55°	441	442	446	450	450	394
65°	282	281	282	283	284	277
75°	109	113	115	117	119	110
85°	6	6	7	9	13	8
90°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	865.2	865.2	865.2	865.2
1°	865.4	864.8	865.0	864.7
2°	864.7	864.4	864.2	864.2
3°	863.5	863.2	863.4	863.5
4°	861.8	861.6	862.1	862.2
5°	860.1	859.7	860.3	860.4
6°	857.8	858.0	858.3	858.4
7°	855.8	855.6	856.0	856.4
8°	853.4	853.1	853.6	853.8
9°	851.0	850.6	851.0	851.2
10°	848.0	847.8	848.2	848.2
11°	845.2	844.8	845.2	845.0
12°	842.0	841.8	841.8	841.6
13°	838.8	838.3	838.4	838.2
14°	835.3	834.7	834.4	834.8
15°	831.4	830.9	830.5	830.9
16°	827.3	826.8	826.6	826.2
17°	822.8	822.4	822.1	822.2
18°	818.2	818.0	817.6	817.4
19°	813.5	813.0	812.6	812.6
20°	808.0	807.6	807.2	807.2
21°	802.8	802.4	801.9	802.0
22°	796.8	796.5	796.3	796.0
23°	790.8	790.7	789.8	790.0
24°	784.0	784.2	783.8	784.0
25°	777.0	777.6	777.2	777.3
26°	770.1	770.6	770.8	770.6
27°	762.8	763.5	763.3	763.7
28°	755.2	755.9	756.2	756.2
29°	747.2	748.0	748.3	748.2
30°	739.0	739.9	740.4	740.4
31°	730.6	731.7	732.4	731.8
32°	721.9	722.9	723.7	723.0
33°	713.0	713.6	715.1	714.2
34°	703.9	704.8	705.9	704.7
35°	694.4	695.1	696.6	695.4
36°	684.7	685.8	686.4	685.9
37°	674.9	675.6	676.8	676.4
38°	664.4	665.4	666.1	665.8
39°	653.8	654.7	656.0	655.3
40°	642.4	643.9	644.8	644.6
41°	631.8	632.5	634.0	633.6
42°	619.8	621.2	622.4	622.2
43°	608.5	609.2	611.0	610.6
44°	595.5	597.4	598.6	598.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	583.6	584.4	586.5	585.6
46°	570.2	571.7	574.0	573.8
47°	557.0	559.0	561.4	561.0
48°	543.4	545.5	548.1	549.0
49°	529.5	531.8	535.0	535.8
50°	515.3	517.8	521.2	523.4
51°	500.8	503.4	507.6	509.8
52°	486.1	488.3	493.5	496.6
53°	471.2	473.7	479.4	481.4
54°	456.1	457.8	464.2	466.2
55°	441.0	442.6	449.3	450.4
56°	425.7	426.4	433.8	434.2
57°	410.2	410.3	418.4	417.3
58°	394.9	394.2	402.0	401.8
59°	380.0	377.9	386.0	384.6
60°	364.9	361.5	369.1	369.1
61°	348.8	345.4	351.9	352.2
62°	333.5	329.5	335.4	336.3
63°	316.5	313.0	317.7	318.6
64°	299.4	297.1	300.1	301.2
65°	282.2	280.9	282.2	283.6
66°	265.3	265.4	264.3	266.6
67°	247.2	248.6	247.4	249.6
68°	224.0	228.7	228.6	232.4
69°	210.8	213.8	212.4	215.8
70°	192.8	196.8	194.5	198.5
71°	175.8	178.6	178.2	182.6
72°	159.4	161.1	161.0	165.2
73°	143.5	143.8	145.0	150.2
74°	126.5	128.6	129.9	133.9
75°	109.0	114.6	115.9	118.8
76°	84.8	102.2	103.2	103.0
77°	62.8	83.5	90.3	88.6
78°	46.2	60.7	77.6	76.4
79°	29.2	44.1	64.7	64.4
80°	20.5	25.1	53.6	53.8
81°	15.6	17.8	41.0	45.8
82°	12.4	13.5	28.9	33.3
83°	10.0	10.8	16.6	25.4
84°	7.8	8.5	10.4	19.5
85°	5.9	6.5	7.4	13.2
86°	4.2	4.8	5.5	9.0
87°	3.0	3.4	4.0	5.6
88°	2.0	2.3	2.8	3.2
89°	1.2	1.5	1.9	1.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.7	1.0	1.2	0.8

(END OF REPORT)