

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: P295370

Luminaire Tested: **LM-15L-935-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1813875J001)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-15L-935-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 3500K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

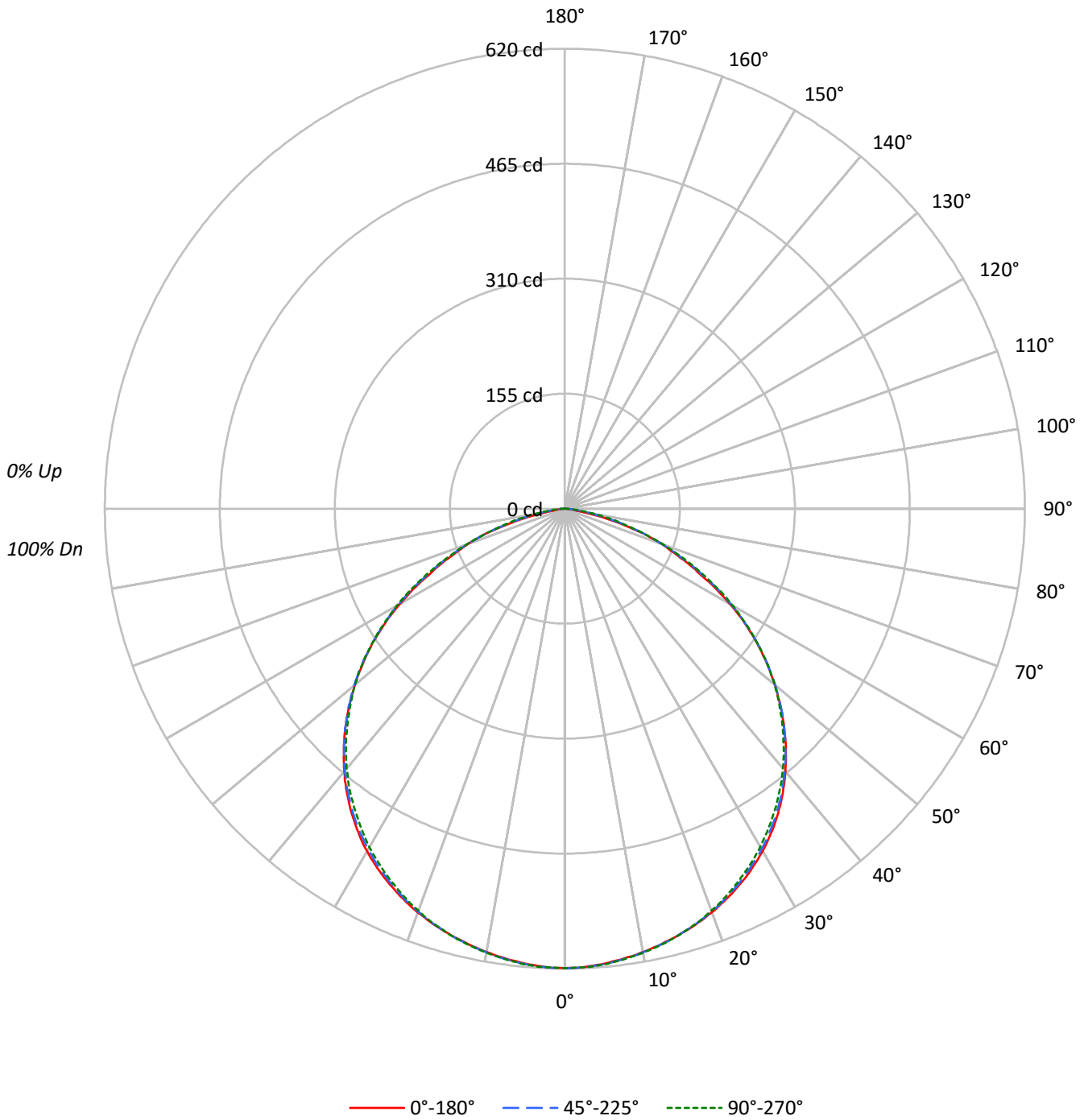
Lumens per Lamp: N/A
Luminaire Lumens: 1694.8 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

Input Watts (W): 14.6
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	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	97	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	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	36	30	42	35	30	41	35	30	40	34	30	28				
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	54342	54342	54342
5°	54189	54264	54294
10°	54067	54107	54138
15°	54016	54021	54052
20°	54068	53970	53834
25°	54075	53867	53640
30°	54008	53699	53359
35°	53671	53414	52932
40°	52949	52817	52377
45°	51904	51886	51420
50°	50356	50527	50356
55°	48404	48526	48511
60°	45123	45474	45912
65°	40267	41139	41554
70°	35445	35470	35906
75°	25487	28029	28876
80°	9699	16519	19752
85°	5938	7901	12681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.5
10°-20°	168.0	9.9
20°-30°	256.5	15.1
30°-40°	311.5	18.4
40°-50°	321.9	19.0
50°-60°	282.8	16.7
60°-70°	195.8	11.6
70°-80°	87.7	5.2
80°-90°	12.1	0.7
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°	483.0	28.5
0°-40°	794.6	46.9
0°-60°	1399.2	82.6
0°-90°	1694.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	615	616	616	617	617	58
15°	595	595	595	595	595	168
25°	559	558	557	555	554	258
35°	501	501	499	496	494	313
45°	418	419	418	417	414	322
55°	316	315	317	319	317	282
65°	194	195	198	201	200	193
75°	75	81	83	84	85	81
85°	6	7	8	10	13	8
90°	1	2	2	2	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	619.5	619.5	619.5	619.5
1°	619.3	619.4	619.3	619.2
2°	618.8	619.1	619.0	618.8
3°	617.9	618.4	618.5	618.7
4°	616.8	617.2	617.6	617.8
5°	615.4	616.0	616.5	616.6
6°	614.0	614.6	615.0	615.2
7°	612.5	613.0	613.4	613.6
8°	610.8	611.4	611.6	612.0
9°	609.0	609.5	609.7	610.0
10°	607.0	607.5	607.4	607.8
11°	604.8	605.4	605.1	605.8
12°	602.5	603.1	602.9	603.2
13°	600.0	600.4	600.2	600.8
14°	597.6	598.0	597.6	598.0
15°	594.8	594.9	594.8	595.2
16°	592.0	592.2	591.6	591.8
17°	589.0	589.0	588.4	588.4
18°	586.1	585.8	585.0	585.0
19°	582.6	582.4	581.2	581.2
20°	579.2	578.9	577.4	576.7
21°	575.4	575.0	573.3	573.0
22°	571.5	571.3	569.0	568.3
23°	567.4	566.9	564.4	564.0
24°	563.1	562.6	559.8	559.0
25°	558.7	558.1	555.0	554.2
26°	554.2	553.2	550.0	548.8
27°	549.2	548.4	544.7	543.5
28°	544.0	543.2	539.6	538.1
29°	538.8	537.9	533.6	532.6
30°	533.2	532.1	528.2	526.8
31°	527.4	526.4	522.2	520.3
32°	521.2	520.3	516.4	514.2
33°	514.7	514.2	509.8	507.4
34°	507.9	507.6	503.3	500.8
35°	501.2	501.0	496.6	494.3
36°	493.7	493.8	489.3	487.2
37°	486.5	486.6	482.5	480.2
38°	478.6	478.8	474.9	473.0
39°	470.9	470.4	467.5	465.0
40°	462.4	462.5	460.0	457.4
41°	454.2	454.1	452.2	449.0
42°	445.4	445.6	444.0	440.8
43°	436.6	436.8	435.5	432.2
44°	427.6	427.7	427.0	423.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	418.4	418.6	417.9	414.5
46°	408.9	409.1	409.2	405.8
47°	399.4	399.4	400.0	396.7
48°	389.0	389.6	390.6	387.6
49°	379.5	379.3	381.4	378.4
50°	369.0	368.9	371.6	369.0
51°	359.1	358.6	361.9	359.2
52°	348.8	347.9	351.6	349.2
53°	338.2	337.0	341.6	338.8
54°	327.4	326.0	330.5	328.2
55°	316.5	314.8	319.8	317.2
56°	305.0	303.4	308.6	306.2
57°	293.0	292.2	297.5	295.0
58°	281.7	280.0	285.8	284.0
59°	269.0	268.8	274.4	272.4
60°	257.2	256.3	262.1	261.7
61°	243.8	244.3	250.4	249.4
62°	232.0	232.2	238.2	237.8
63°	219.2	219.4	225.8	224.4
64°	203.9	206.0	211.4	212.8
65°	194.0	195.4	201.0	200.2
66°	181.5	183.6	188.0	188.4
67°	169.3	171.2	176.2	176.6
68°	158.4	160.5	163.3	163.9
69°	147.9	148.7	151.3	152.6
70°	138.2	137.6	139.0	140.0
71°	127.4	126.6	127.2	129.0
72°	116.8	116.7	115.7	116.4
73°	101.8	107.0	104.3	105.7
74°	87.6	95.9	93.4	95.0
75°	75.2	82.4	83.0	85.2
76°	65.0	71.3	73.0	76.3
77°	50.9	60.0	64.1	66.0
78°	37.2	50.2	55.6	55.9
79°	28.1	36.7	47.5	49.8
80°	19.2	25.5	39.9	39.1
81°	15.0	18.2	31.8	33.4
82°	11.8	13.9	24.4	25.6
83°	9.6	11.0	16.8	20.5
84°	7.6	8.9	11.1	15.6
85°	5.9	7.1	8.6	12.6
86°	4.4	5.5	6.9	8.8
87°	3.2	4.3	5.6	6.2
88°	2.2	3.2	4.5	4.8
89°	1.5	2.4	3.4	3.3



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	1.0	1.8	2.5	1.2

(END OF REPORT)