

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: P295368

Luminaire Tested: **LM-15L-927-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295368
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-927-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 2700K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

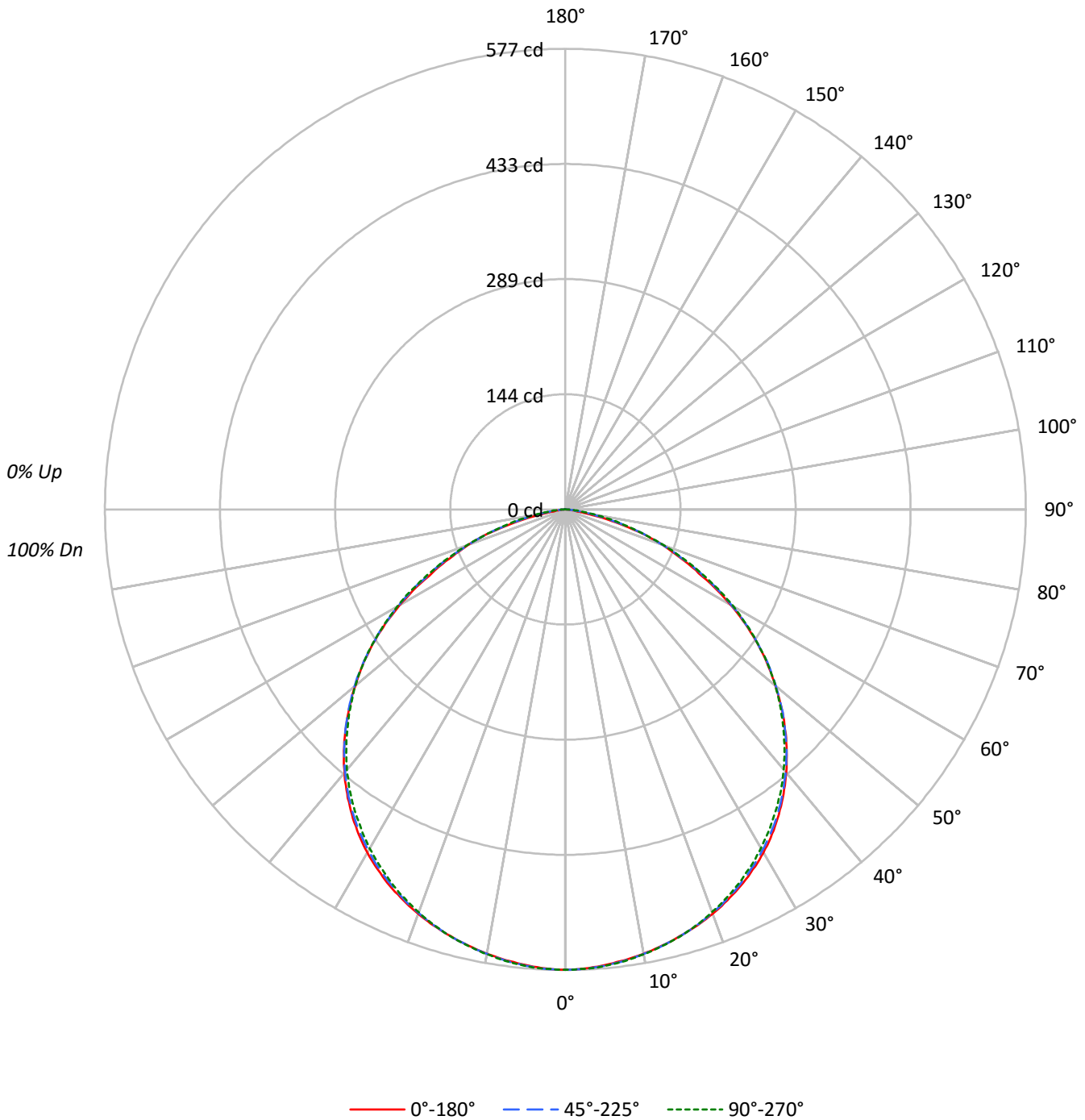
Lumens per Lamp: N/A
Luminaire Lumens: 1577.9 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

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	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°	50596	50596	50596
5°	50455	50526	50543
10°	50344	50375	50406
15°	50293	50297	50329
20°	50334	50250	50119
25°	50349	50146	49942
30°	50290	49997	49683
35°	49966	49725	49281
40°	49285	49170	48758
45°	48307	48307	47872
50°	46890	47047	46876
55°	45054	45177	45177
60°	42018	42333	42737
65°	37465	38305	38689
70°	32983	33034	33419
75°	23758	26080	26910
80°	9093	15407	18388
85°	5536	7398	11876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.5
10°-20°	156.4	9.9
20°-30°	238.8	15.1
30°-40°	290.0	18.4
40°-50°	299.7	19.0
50°-60°	263.3	16.7
60°-70°	182.3	11.6
70°-80°	81.7	5.2
80°-90°	11.3	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°	449.7	28.5
0°-40°	739.8	46.9
0°-60°	1302.7	82.6
0°-90°	1577.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	573	573	574	574	574	54
15°	554	554	554	554	554	156
25°	520	520	518	516	516	240
35°	467	466	464	462	460	292
45°	389	390	389	388	386	300
55°	295	293	295	297	295	262
65°	180	182	185	187	186	179
75°	70	75	77	78	79	75
85°	6	6	7	9	12	7
90°	1	1	2	2	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	576.8	576.8	576.8	576.8
1°	576.6	576.7	576.6	576.6
2°	576.2	576.4	576.4	576.1
3°	575.2	575.7	575.8	576.0
4°	574.2	574.7	575.1	575.2
5°	573.0	573.6	574.0	574.0
6°	571.6	572.2	572.6	572.8
7°	570.2	570.8	571.2	571.3
8°	568.8	569.2	569.4	569.8
9°	567.0	567.5	567.6	568.0
10°	565.2	565.6	565.5	565.9
11°	563.1	563.6	563.4	564.0
12°	561.0	561.5	561.2	561.6
13°	558.7	559.0	558.8	559.4
14°	556.4	556.7	556.5	556.7
15°	553.8	553.9	553.8	554.2
16°	551.2	551.4	550.8	551.0
17°	548.4	548.4	547.8	547.8
18°	545.7	545.4	544.6	544.6
19°	542.4	542.2	541.2	541.1
20°	539.2	539.0	537.6	536.9
21°	535.8	535.4	533.8	533.4
22°	532.1	531.9	529.8	529.1
23°	528.3	527.7	525.5	525.1
24°	524.3	523.8	521.2	520.6
25°	520.2	519.6	516.6	516.0
26°	516.0	515.0	512.1	511.0
27°	511.2	510.6	507.2	506.0
28°	506.6	505.7	502.4	501.0
29°	501.6	500.8	496.8	495.8
30°	496.5	495.4	491.8	490.5
31°	491.0	490.0	486.2	484.4
32°	485.2	484.4	480.8	478.7
33°	479.2	478.8	474.6	472.4
34°	472.9	472.6	468.6	466.2
35°	466.6	466.4	462.3	460.2
36°	459.6	459.7	455.6	453.6
37°	452.9	453.0	449.2	447.0
38°	445.5	445.8	442.2	440.3
39°	438.4	438.0	435.3	432.9
40°	430.4	430.6	428.2	425.8
41°	422.8	422.8	421.0	418.0
42°	414.7	414.8	413.4	410.4
43°	406.4	406.7	405.5	402.4
44°	398.2	398.2	397.6	394.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	389.4	389.7	389.1	385.9
46°	380.7	380.9	381.0	377.8
47°	371.8	371.9	372.5	369.3
48°	362.2	362.7	363.7	360.9
49°	353.4	353.1	355.1	352.4
50°	343.6	343.5	346.0	343.5
51°	334.3	333.9	337.0	334.5
52°	324.8	324.0	327.3	325.2
53°	315.0	313.8	318.0	315.4
54°	304.8	303.5	307.7	305.6
55°	294.6	293.0	297.8	295.4
56°	284.0	282.4	287.3	285.0
57°	272.8	272.0	277.0	274.6
58°	262.3	260.6	266.1	264.4
59°	250.4	250.2	255.5	253.6
60°	239.5	238.6	244.0	243.6
61°	227.0	227.5	233.2	232.2
62°	216.0	216.1	221.8	221.4
63°	204.2	204.3	210.3	208.9
64°	189.8	191.8	196.8	198.2
65°	180.5	181.9	187.2	186.4
66°	169.0	171.0	175.0	175.4
67°	157.6	159.4	164.0	164.4
68°	147.5	149.5	152.0	152.6
69°	137.7	138.5	140.8	142.1
70°	128.6	128.2	129.4	130.3
71°	118.6	117.8	118.4	120.0
72°	108.8	108.6	107.7	108.4
73°	94.8	99.6	97.1	98.4
74°	81.6	89.3	87.0	88.4
75°	70.1	76.7	77.2	79.4
76°	60.5	66.4	67.9	71.0
77°	47.4	55.9	59.6	61.4
78°	34.6	46.7	51.8	52.0
79°	26.2	34.2	44.2	46.3
80°	18.0	23.8	37.2	36.4
81°	14.0	16.9	29.6	31.1
82°	11.0	12.9	22.7	23.8
83°	9.0	10.2	15.6	19.2
84°	7.0	8.3	10.4	14.6
85°	5.5	6.6	8.1	11.8
86°	4.2	5.1	6.4	8.2
87°	3.0	4.0	5.2	5.8
88°	2.1	2.9	4.2	4.5
89°	1.4	2.3	3.2	3.1



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.9	1.6	2.3	1.1

(END OF REPORT)