

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: P295369

Luminaire Tested: **LM-15L-930-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295369
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-930-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 3000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

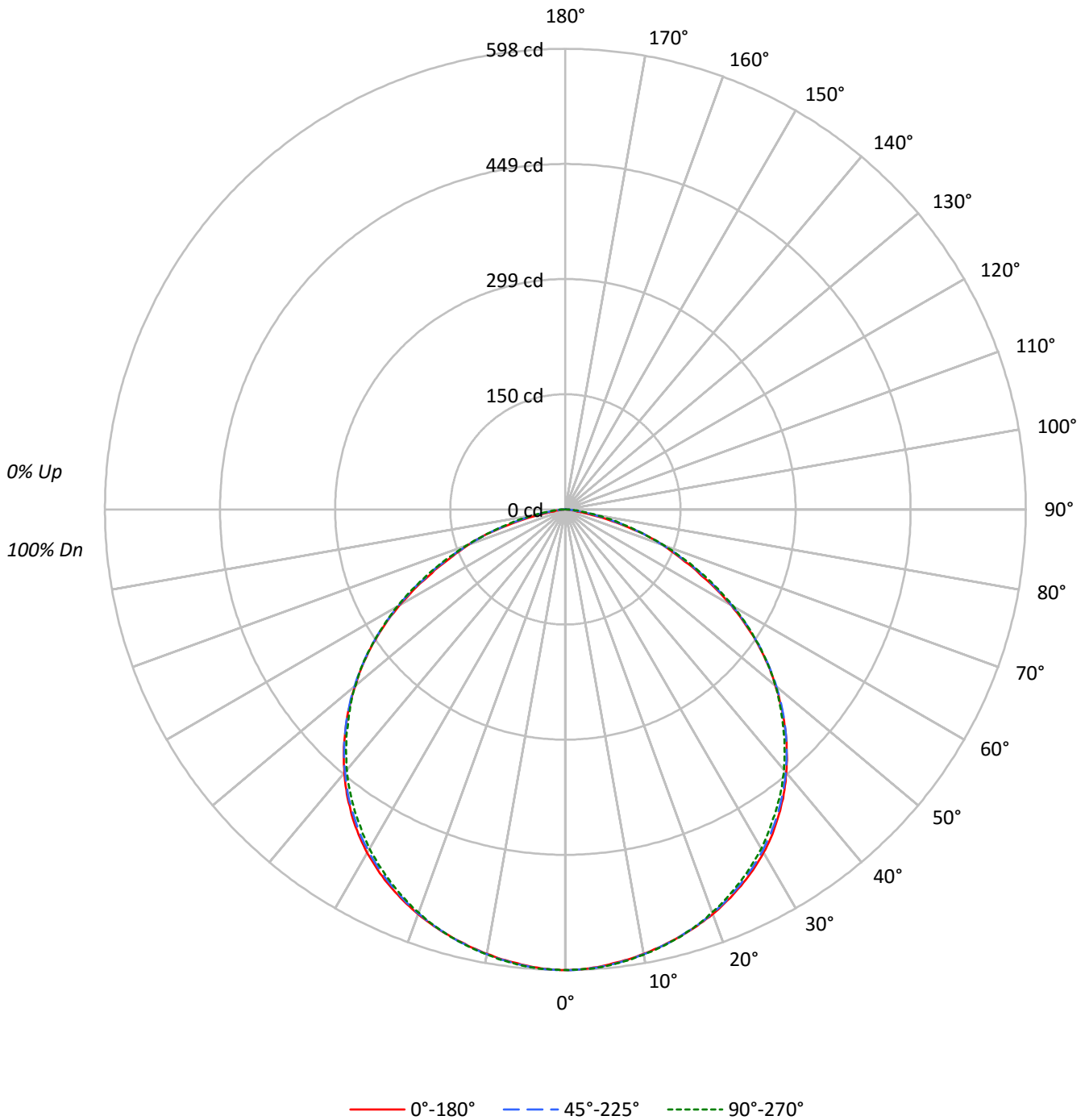
Lumens per Lamp: N/A
Luminaire Lumens: 1636.3 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): 120
Input Current (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	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°	52465	52465	52465
5°	52313	52392	52419
10°	52196	52245	52268
15°	52154	52159	52191
20°	52201	52107	51977
25°	52207	52004	51791
30°	52144	51850	51526
35°	51808	51567	51101
40°	51117	50997	50567
45°	50105	50099	49646
50°	48610	48787	48610
55°	46721	46851	46844
60°	43579	43904	44316
65°	38856	39717	40142
70°	34214	34252	34675
75°	24606	27046	27893
80°	9396	15988	18994
85°	5737	7649	12279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.5
10°-20°	162.2	9.9
20°-30°	247.7	15.1
30°-40°	300.8	18.4
40°-50°	310.8	19.0
50°-60°	273.0	16.7
60°-70°	189.0	11.6
70°-80°	84.7	5.2
80°-90°	11.7	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°	466.4	28.5
0°-40°	767.2	46.9
0°-60°	1350.9	82.6
0°-90°	1636.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	594	595	595	595	595	56
15°	574	574	574	574	575	162
25°	539	539	537	536	535	249
35°	484	484	482	479	477	302
45°	404	404	404	403	400	311
55°	306	304	306	308	306	272
65°	187	188	191	194	193	186
75°	73	78	80	81	82	78
85°	6	7	8	9	12	8
90°	1	2	2	2	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	598.1	598.1	598.1	598.1
1°	597.9	598.1	598.0	598.0
2°	597.5	597.8	597.7	597.4
3°	596.6	597.0	597.2	597.3
4°	595.5	596.0	596.4	596.6
5°	594.1	594.8	595.2	595.3
6°	592.8	593.4	593.8	594.0
7°	591.4	591.9	592.3	592.5
8°	589.8	590.3	590.5	591.0
9°	588.0	588.5	588.6	589.0
10°	586.0	586.6	586.5	586.8
11°	584.0	584.5	584.2	584.9
12°	581.7	582.3	582.1	582.3
13°	579.3	579.7	579.6	580.1
14°	577.0	577.4	577.1	577.3
15°	574.3	574.4	574.3	574.7
16°	571.6	571.8	571.2	571.4
17°	568.7	568.7	568.2	568.2
18°	565.9	565.6	564.7	564.8
19°	562.6	562.3	561.2	561.2
20°	559.2	559.0	557.4	556.8
21°	555.6	555.2	553.6	553.2
22°	551.8	551.6	549.4	548.7
23°	547.8	547.3	545.0	544.6
24°	543.7	543.2	540.6	539.8
25°	539.4	538.8	535.8	535.1
26°	535.0	534.1	531.0	529.9
27°	530.2	529.5	526.0	524.8
28°	525.3	524.4	521.0	519.6
29°	520.2	519.3	515.3	514.2
30°	514.8	513.8	510.0	508.7
31°	509.2	508.2	504.2	502.4
32°	503.2	502.4	498.6	496.4
33°	497.0	496.5	492.2	489.8
34°	490.4	490.1	486.0	483.5
35°	483.8	483.7	479.4	477.2
36°	476.6	476.7	472.4	470.4
37°	469.8	469.8	465.8	463.6
38°	462.0	462.4	458.6	456.6
39°	454.6	454.2	451.4	449.0
40°	446.4	446.6	444.1	441.6
41°	438.4	438.5	436.6	433.4
42°	430.1	430.2	428.7	425.6
43°	421.5	421.8	420.5	417.2
44°	412.8	413.0	412.3	409.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	403.9	404.2	403.5	400.2
46°	394.8	395.0	395.1	391.7
47°	385.5	385.6	386.2	383.0
48°	375.6	376.2	377.1	374.2
49°	366.4	366.2	368.2	365.4
50°	356.2	356.2	358.8	356.2
51°	346.7	346.2	349.4	346.8
52°	336.8	336.0	339.5	337.2
53°	326.6	325.4	329.8	327.2
54°	316.1	314.8	319.1	316.8
55°	305.5	303.9	308.8	306.3
56°	294.5	292.8	297.9	295.6
57°	282.9	282.1	287.2	284.8
58°	272.0	270.3	276.0	274.2
59°	259.7	259.5	264.9	263.0
60°	248.4	247.4	253.1	252.6
61°	235.4	235.9	241.8	240.8
62°	224.0	224.2	230.0	229.6
63°	211.7	211.8	218.1	216.6
64°	196.9	198.9	204.1	205.5
65°	187.2	188.6	194.1	193.4
66°	175.2	177.3	181.5	182.0
67°	163.4	165.2	170.1	170.5
68°	153.0	155.0	157.6	158.2
69°	142.8	143.6	146.1	147.4
70°	133.4	132.9	134.2	135.2
71°	123.0	122.2	122.8	124.5
72°	112.8	112.6	111.7	112.4
73°	98.3	103.3	100.7	102.0
74°	84.6	92.6	90.2	91.8
75°	72.6	79.5	80.1	82.3
76°	62.8	68.9	70.4	73.6
77°	49.1	58.0	61.9	63.8
78°	35.9	48.5	53.7	54.0
79°	27.1	35.4	45.9	48.0
80°	18.6	24.7	38.6	37.6
81°	14.4	17.5	30.8	32.2
82°	11.4	13.4	23.6	24.7
83°	9.3	10.6	16.2	19.8
84°	7.3	8.5	10.7	15.0
85°	5.7	6.8	8.4	12.2
86°	4.3	5.4	6.7	8.5
87°	3.1	4.1	5.4	6.0
88°	2.2	3.0	4.3	4.6
89°	1.5	2.3	3.3	3.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	1.0	1.7	2.4	1.1

(END OF REPORT)