

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: P295362

Luminaire Tested: **LM-10L-935-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1813875D001)
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-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 3500K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

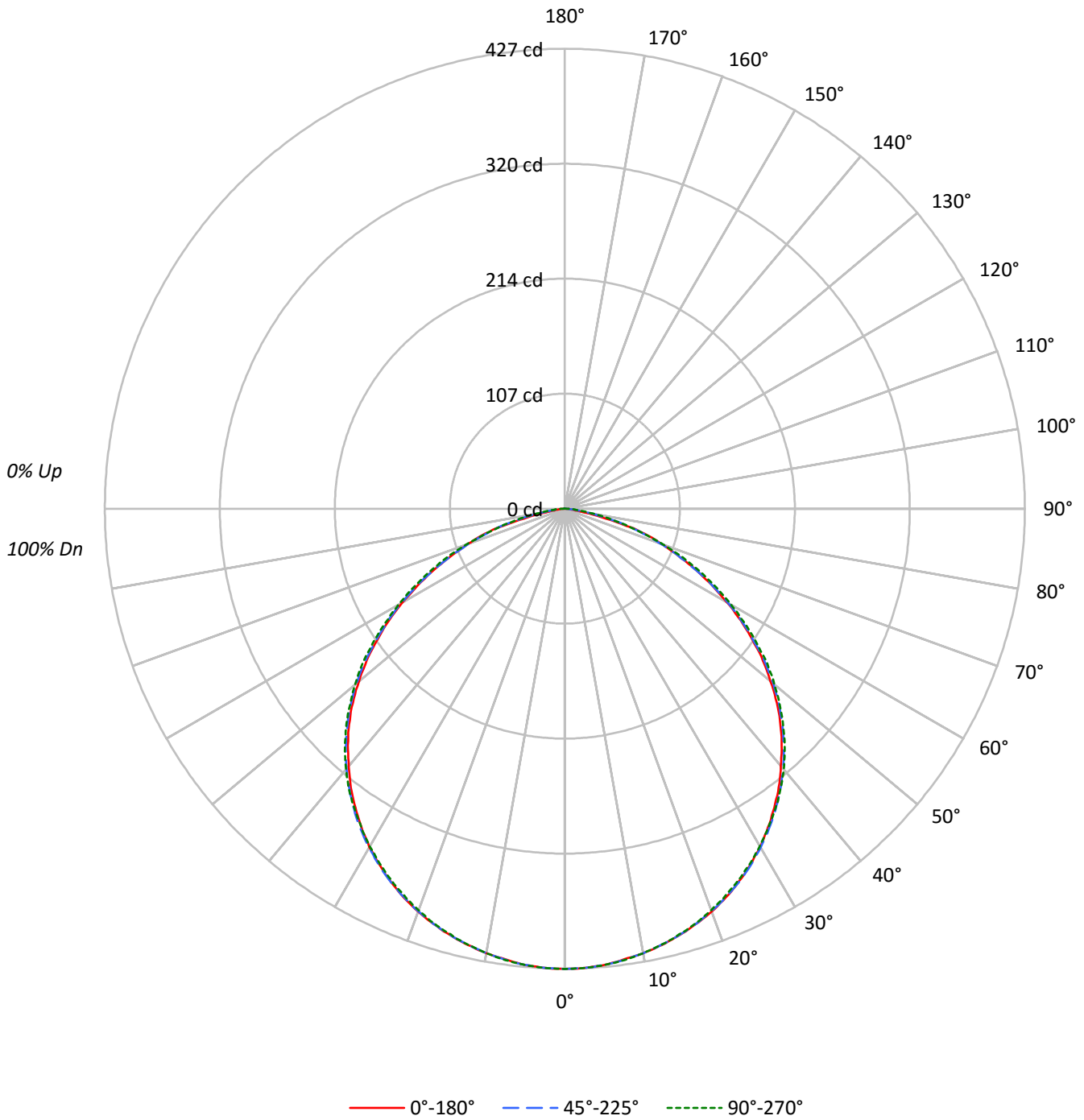
Lumens per Lamp: N/A
Luminaire Lumens: 1158.4 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

Input Watts (W): 9.9
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	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	69	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	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	39
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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37491	37491	37491
5°	37441	37432	37441
10°	37321	37326	37321
15°	37243	37238	37179
20°	37172	37130	37032
25°	36983	37007	36857
30°	36748	36809	36667
35°	36302	36522	36441
40°	35727	36105	36185
45°	35120	35424	35616
50°	34035	34465	34663
55°	32498	32743	33278
60°	30456	30763	31263
65°	27709	27792	28727
70°	24391	24032	24929
75°	17963	19878	19725
80°	6567	11164	13437
85°	3925	5083	8454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	3.5
10°-20°	115.7	10.0
20°-30°	176.1	15.2
30°-40°	213.0	18.4
40°-50°	219.9	19.0
50°-60°	191.8	16.6
60°-70°	133.2	11.5
70°-80°	60.4	5.2
80°-90°	8.0	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°	332.2	28.7
0°-40°	545.2	47.1
0°-60°	956.8	82.6
0°-90°	1158.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	425	425	425	425	425	40
15°	410	410	410	410	409	116
25°	382	382	382	382	381	176
35°	339	340	341	342	340	212
45°	283	284	286	287	287	218
55°	212	212	214	216	218	190
65°	134	134	134	135	138	132
75°	53	59	59	57	58	57
85°	4	4	5	6	8	5
90°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	427.4	427.4	427.4	427.4
1°	427.3	427.3	427.2	427.2
2°	427.0	426.9	427.0	427.0
3°	426.4	426.5	426.7	426.6
4°	425.9	425.8	425.9	426.0
5°	425.2	425.0	425.2	425.2
6°	424.0	424.1	424.2	424.3
7°	422.8	422.8	423.1	423.3
8°	421.5	421.6	422.0	422.1
9°	420.5	420.2	420.6	420.6
10°	419.0	419.0	419.1	419.0
11°	417.5	417.4	417.4	417.2
12°	415.7	415.9	415.6	415.7
13°	414.2	414.0	413.7	413.8
14°	412.2	412.1	411.8	411.7
15°	410.1	410.2	409.9	409.4
16°	408.2	408.0	407.6	407.4
17°	405.6	405.7	405.4	404.8
18°	403.5	403.3	402.8	402.5
19°	400.8	400.6	400.3	399.6
20°	398.2	398.0	397.5	396.7
21°	395.2	395.2	394.8	393.8
22°	392.3	392.3	391.6	390.9
23°	389.0	389.2	388.7	387.5
24°	385.7	385.9	385.4	384.4
25°	382.1	382.5	382.2	380.8
26°	378.6	379.0	378.7	377.4
27°	374.6	375.4	375.2	373.5
28°	370.8	371.3	371.4	369.9
29°	366.4	367.2	367.5	365.8
30°	362.8	363.0	363.8	362.0
31°	358.0	358.8	359.6	357.7
32°	353.5	354.4	355.5	353.6
33°	348.8	349.6	351.0	349.0
34°	343.8	345.2	346.6	344.9
35°	339.0	340.2	341.9	340.3
36°	333.7	335.3	337.0	336.1
37°	328.9	330.2	332.2	331.2
38°	323.3	325.1	326.9	326.3
39°	317.8	319.6	321.7	321.2
40°	312.0	314.0	316.6	316.0
41°	306.4	308.2	310.9	310.6
42°	300.9	302.3	305.4	305.0
43°	295.0	296.4	299.5	299.3
44°	289.2	290.0	293.8	293.1



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	283.1	283.8	287.3	287.1
46°	276.8	277.1	281.4	280.8
47°	270.5	270.8	274.8	274.2
48°	263.4	264.2	268.3	267.4
49°	256.8	257.4	261.3	261.0
50°	249.4	250.5	254.6	254.0
51°	242.7	243.3	247.3	247.6
52°	234.9	235.0	240.1	240.4
53°	228.4	228.3	232.5	233.5
54°	220.4	220.6	224.5	224.8
55°	212.5	212.4	215.8	217.6
56°	205.0	205.2	208.7	209.4
57°	197.7	197.8	200.4	201.9
58°	189.4	190.2	192.6	193.6
59°	182.0	182.9	183.8	186.2
60°	173.6	174.8	175.9	178.2
61°	165.3	167.1	167.0	170.4
62°	157.4	158.9	158.8	162.6
63°	149.6	150.9	150.2	154.5
64°	141.5	142.4	141.8	146.4
65°	133.5	134.2	133.6	138.4
66°	125.4	125.8	125.5	130.4
67°	117.4	117.3	117.4	122.5
68°	109.4	109.4	109.4	114.4
69°	101.8	101.6	101.4	106.0
70°	95.1	94.0	93.4	97.2
71°	88.7	86.8	85.7	88.4
72°	81.8	79.9	78.1	80.4
73°	73.6	73.4	70.6	72.6
74°	66.2	67.4	63.6	65.2
75°	53.0	60.4	56.9	58.2
76°	43.8	50.4	50.3	51.2
77°	34.4	42.0	43.0	44.6
78°	27.0	35.5	37.8	38.6
79°	18.9	24.6	32.2	32.3
80°	13.0	16.8	27.4	26.6
81°	9.9	11.8	22.4	21.6
82°	8.0	9.0	16.8	18.2
83°	6.4	7.1	11.0	14.0
84°	5.1	5.8	7.2	11.2
85°	3.9	4.5	5.6	8.4
86°	2.8	3.4	4.3	6.0
87°	2.0	2.6	3.3	4.4
88°	1.4	1.8	2.5	3.3
89°	0.8	1.4	1.9	2.4



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.6	1.0	1.4	1.4

(END OF REPORT)