

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: P295363

Luminaire Tested: **LM-10L-940-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295363
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-940-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 4000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

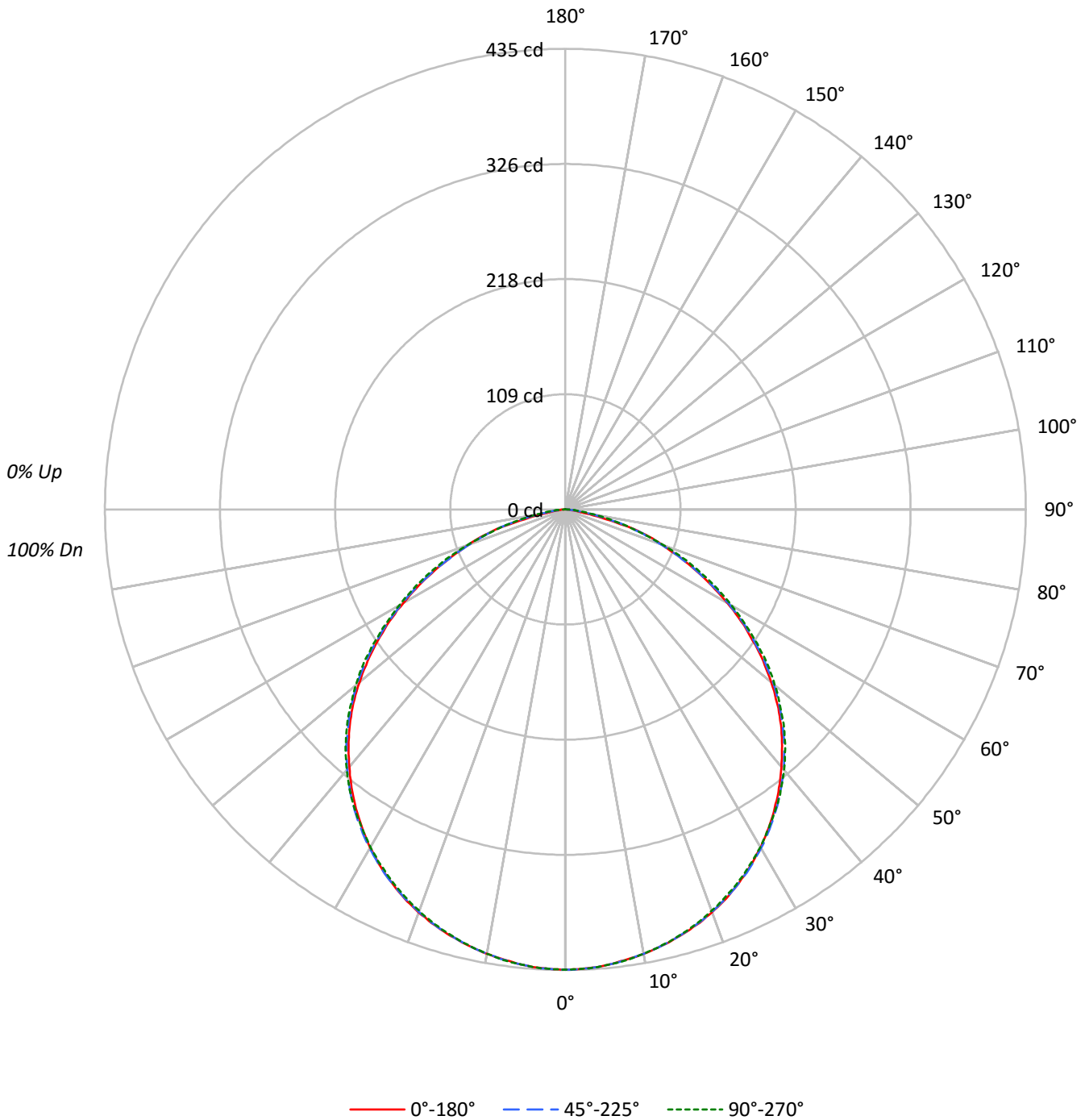
Lumens per Lamp: N/A
Luminaire Lumens: 1178.4 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

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°	38132	38132	38132
5°	38075	38079	38075
10°	37963	37967	37963
15°	37887	37874	37833
20°	37806	37764	37666
25°	37621	37641	37495
30°	37376	37442	37295
35°	36923	37148	37073
40°	36357	36729	36803
45°	35728	36031	36224
50°	34635	35058	35249
55°	33049	33309	33860
60°	30982	31289	31789
65°	28187	28280	29225
70°	24801	24455	25340
75°	18234	20234	20064
80°	6668	11366	13740
85°	3925	5234	8555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	3.5
10°-20°	117.7	10.0
20°-30°	179.1	15.2
30°-40°	216.7	18.4
40°-50°	223.7	19.0
50°-60°	195.1	16.6
60°-70°	135.5	11.5
70°-80°	61.5	5.2
80°-90°	8.2	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°	337.9	28.7
0°-40°	554.5	47.1
0°-60°	973.3	82.6
0°-90°	1178.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	432	432	432	432	432	41
15°	417	417	417	417	417	118
25°	389	389	389	388	387	179
35°	345	346	347	347	346	216
45°	288	289	290	292	292	222
55°	216	216	218	220	221	193
65°	136	136	136	137	141	134
75°	54	60	60	58	59	58
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°	434.7	434.7	434.7	434.7
1°	434.6	434.7	434.6	434.6
2°	434.4	434.3	434.4	434.3
3°	433.8	433.8	434.1	434.0
4°	433.2	433.2	433.2	433.3
5°	432.4	432.4	432.5	432.4
6°	431.3	431.4	431.6	431.6
7°	430.0	430.1	430.4	430.6
8°	428.8	428.9	429.3	429.4
9°	427.8	427.4	427.8	427.8
10°	426.2	426.2	426.3	426.2
11°	424.7	424.6	424.6	424.4
12°	422.9	423.0	422.7	422.8
13°	421.2	421.2	420.8	420.8
14°	419.2	419.2	418.9	418.8
15°	417.2	417.2	416.9	416.6
16°	415.2	415.0	414.6	414.4
17°	412.6	412.7	412.4	411.8
18°	410.4	410.2	409.8	409.5
19°	407.6	407.6	407.2	406.5
20°	405.0	404.8	404.3	403.5
21°	402.0	401.9	401.6	400.7
22°	399.1	399.0	398.3	397.6
23°	395.8	395.9	395.4	394.2
24°	392.4	392.5	392.0	391.0
25°	388.7	389.0	388.8	387.4
26°	385.2	385.5	385.2	383.9
27°	381.1	381.8	381.6	379.9
28°	377.2	377.6	377.8	376.3
29°	372.7	373.5	373.8	372.2
30°	369.0	369.3	370.0	368.2
31°	364.2	365.0	365.8	363.8
32°	359.6	360.5	361.6	359.6
33°	354.8	355.6	357.1	355.1
34°	349.8	351.1	352.6	350.8
35°	344.8	346.0	347.8	346.2
36°	339.5	341.0	342.8	341.9
37°	334.5	335.9	337.9	337.0
38°	328.8	330.7	332.5	331.8
39°	323.3	325.1	327.2	326.7
40°	317.5	319.4	322.1	321.4
41°	311.7	313.6	316.3	315.9
42°	306.0	307.5	310.7	310.3
43°	300.2	301.5	304.6	304.5
44°	294.1	295.0	298.8	298.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	288.0	288.7	292.2	292.0
46°	281.5	281.9	286.2	285.7
47°	275.2	275.5	279.5	278.9
48°	267.9	268.7	273.0	272.0
49°	261.2	261.9	265.8	265.6
50°	253.8	254.8	259.0	258.3
51°	246.8	247.5	251.6	251.8
52°	239.0	239.1	244.2	244.5
53°	232.3	232.2	236.4	237.5
54°	224.2	224.5	228.4	228.7
55°	216.1	216.1	219.5	221.4
56°	208.6	208.7	212.3	213.0
57°	201.1	201.3	203.8	205.4
58°	192.7	193.5	195.9	197.0
59°	185.2	186.0	187.0	189.4
60°	176.6	177.8	178.9	181.2
61°	168.1	170.0	169.9	173.2
62°	160.1	161.7	161.5	165.4
63°	152.2	153.6	152.8	157.2
64°	143.9	144.9	144.3	149.0
65°	135.8	136.5	136.0	140.8
66°	127.5	128.0	127.7	132.7
67°	119.4	119.4	119.5	124.6
68°	111.2	111.2	111.2	116.4
69°	103.6	103.4	103.1	107.8
70°	96.7	95.6	95.1	98.8
71°	90.2	88.3	87.2	89.9
72°	83.2	81.3	79.4	81.8
73°	74.9	74.7	71.8	73.8
74°	67.2	68.6	64.8	66.3
75°	53.8	61.5	57.9	59.2
76°	44.6	51.3	51.2	52.2
77°	35.0	42.8	43.8	45.4
78°	27.4	36.1	38.5	39.2
79°	19.2	25.1	32.8	32.9
80°	13.2	17.1	27.9	27.2
81°	10.0	12.0	22.8	22.0
82°	8.1	9.1	17.1	18.5
83°	6.6	7.2	11.3	14.2
84°	5.2	5.9	7.4	11.4
85°	3.9	4.6	5.8	8.5
86°	2.8	3.5	4.4	6.2
87°	2.1	2.6	3.4	4.5
88°	1.4	1.9	2.5	3.3
89°	1.0	1.4	2.0	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)