

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: P295371

Luminaire Tested: **LM-15L-940-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295371
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-940-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 4000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

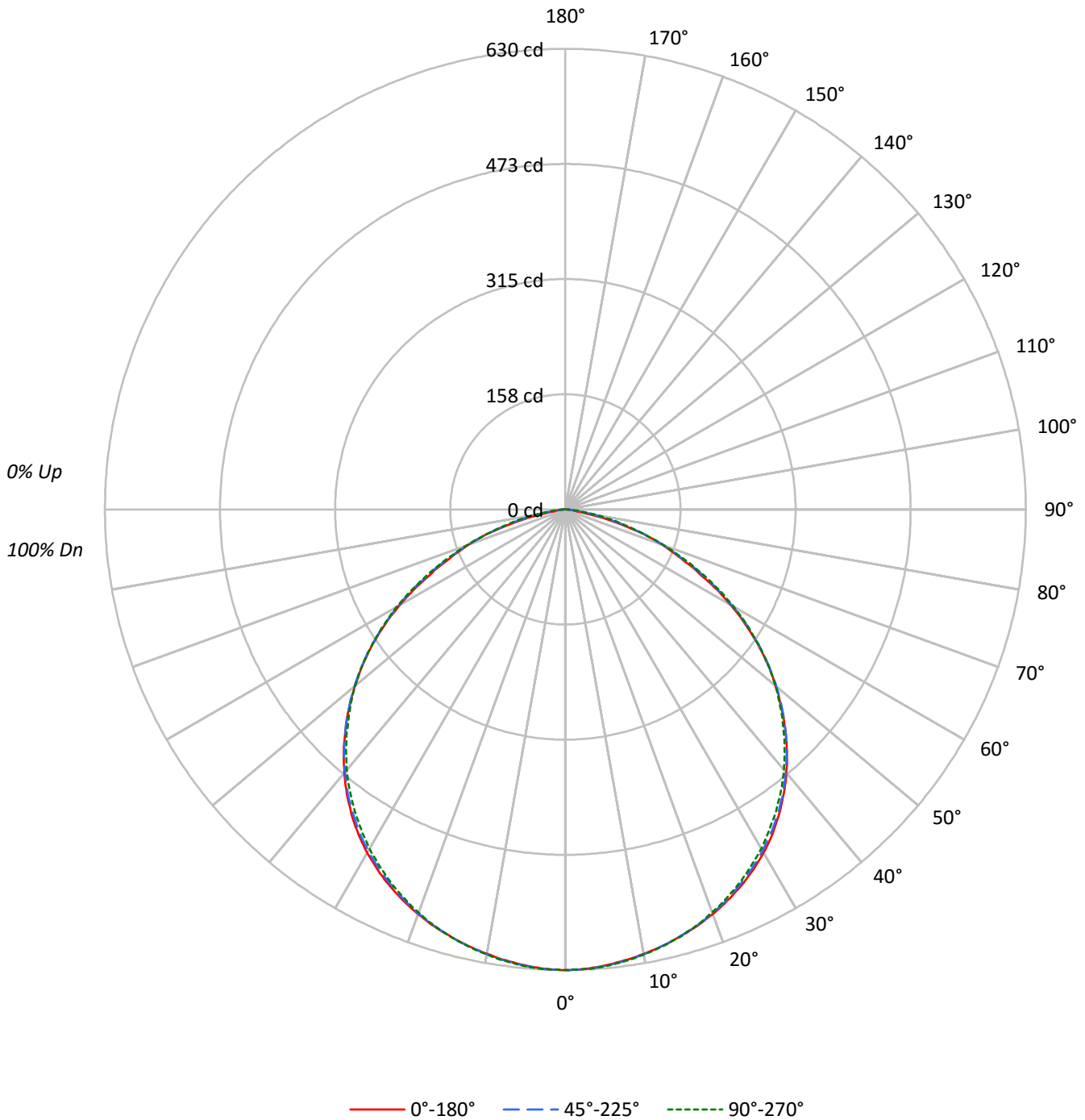
Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

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									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	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°	55281	55281	55281
5°	55122	55206	55228
10°	54993	55042	55074
15°	54942	54947	54979
20°	55001	54894	54758
25°	55014	54791	54569
30°	54939	54625	54281
35°	54592	54335	53843
40°	53854	53728	53281
45°	52797	52779	52301
50°	51230	51400	51230
55°	49214	49367	49352
60°	45895	46254	46702
65°	40931	41844	42280
70°	36060	36086	36522
75°	25961	28503	29418
80°	9901	16822	20055
85°	6039	8102	12883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.5
10°-20°	170.9	9.9
20°-30°	260.9	15.1
30°-40°	316.9	18.4
40°-50°	327.4	19.0
50°-60°	287.6	16.7
60°-70°	199.2	11.6
70°-80°	89.3	5.2
80°-90°	12.3	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°	491.4	28.5
0°-40°	808.3	46.9
0°-60°	1423.3	82.6
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	626	627	627	627	627	59
15°	605	605	605	605	605	171
25°	568	568	566	564	564	262
35°	510	510	507	505	503	319
45°	426	426	425	424	422	328
55°	322	321	323	325	323	287
65°	197	198	202	204	204	196
75°	77	82	84	85	87	82
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°	630.2	630.2	630.2	630.2
1°	630.0	630.1	630.0	630.0
2°	629.5	629.8	629.7	629.4
3°	628.6	629.0	629.2	629.3
4°	627.4	627.9	628.4	628.5
5°	626.0	626.7	627.2	627.2
6°	624.6	625.2	625.6	625.8
7°	623.0	623.6	624.0	624.2
8°	621.4	621.9	622.1	622.6
9°	619.4	620.0	620.1	620.6
10°	617.4	618.0	617.9	618.3
11°	615.2	615.8	615.5	616.3
12°	612.9	613.5	613.2	613.6
13°	610.4	610.7	610.6	611.2
14°	608.0	608.3	608.0	608.2
15°	605.0	605.1	605.0	605.4
16°	602.3	602.4	601.8	602.0
17°	599.2	599.2	598.6	598.6
18°	596.2	595.8	595.0	595.2
19°	592.6	592.4	591.3	591.2
20°	589.2	588.8	587.3	586.6
21°	585.3	585.0	583.2	582.8
22°	581.4	581.1	578.9	578.0
23°	577.2	576.6	574.1	573.7
24°	572.8	572.3	569.5	568.7
25°	568.4	567.7	564.5	563.8
26°	563.7	562.7	559.5	558.4
27°	558.6	557.9	554.2	552.9
28°	553.4	552.5	548.9	547.4
29°	548.0	547.1	542.8	541.7
30°	542.4	541.3	537.3	535.9
31°	536.5	535.4	531.2	529.3
32°	530.2	529.3	525.3	523.0
33°	523.6	523.1	518.6	516.1
34°	516.6	516.3	512.0	509.4
35°	509.8	509.6	505.2	502.8
36°	502.2	502.2	497.8	495.6
37°	494.8	495.0	490.8	488.4
38°	486.8	487.2	483.2	481.1
39°	479.0	478.6	475.6	473.0
40°	470.3	470.5	467.9	465.3
41°	462.0	462.0	460.0	456.6
42°	453.1	453.3	451.7	448.4
43°	444.2	444.4	443.0	439.6
44°	435.0	435.1	434.4	431.0



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	425.6	425.8	425.1	421.6
46°	416.0	416.2	416.2	412.7
47°	406.2	406.4	406.9	403.5
48°	395.8	396.3	397.4	394.3
49°	386.1	385.8	388.0	385.0
50°	375.4	375.3	378.0	375.4
51°	365.2	364.8	368.2	365.4
52°	354.8	354.0	357.6	355.2
53°	344.1	342.8	347.5	344.6
54°	333.0	331.6	336.2	333.8
55°	321.8	320.2	325.4	322.7
56°	310.2	308.5	313.9	311.4
57°	298.1	297.2	302.6	300.1
58°	286.6	284.8	290.7	288.9
59°	273.6	273.4	279.1	277.2
60°	261.6	260.7	266.6	266.2
61°	248.1	248.5	254.8	253.7
62°	236.0	236.2	242.3	242.0
63°	223.0	223.2	229.8	228.3
64°	207.4	209.6	215.0	216.5
65°	197.2	198.7	204.5	203.7
66°	184.6	186.8	191.2	191.7
67°	172.2	174.1	179.2	179.6
68°	161.2	163.3	166.1	166.7
69°	150.4	151.2	153.9	155.2
70°	140.6	140.0	141.4	142.4
71°	129.6	128.8	129.4	131.2
72°	118.8	118.7	117.7	118.4
73°	103.6	108.8	106.1	107.5
74°	89.2	97.6	95.1	96.6
75°	76.6	83.8	84.4	86.8
76°	66.1	72.6	74.2	77.6
77°	51.8	61.1	65.2	67.2
78°	37.8	51.1	56.6	56.8
79°	28.6	37.3	48.3	50.6
80°	19.6	26.0	40.6	39.7
81°	15.2	18.5	32.4	33.9
82°	12.0	14.1	24.8	26.1
83°	9.8	11.2	17.1	21.0
84°	7.8	9.0	11.3	15.8
85°	6.0	7.3	8.8	12.8
86°	4.5	5.6	7.0	9.0
87°	3.2	4.3	5.7	6.4
88°	2.2	3.2	4.6	4.9
89°	1.6	2.5	3.5	3.4



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	1.0	1.8	2.6	1.2

(END OF REPORT)