

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: P295359

Luminaire Tested: **LM-05L-940-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1813892A001)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-05L-940-120-UNV-S-STD-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 4000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

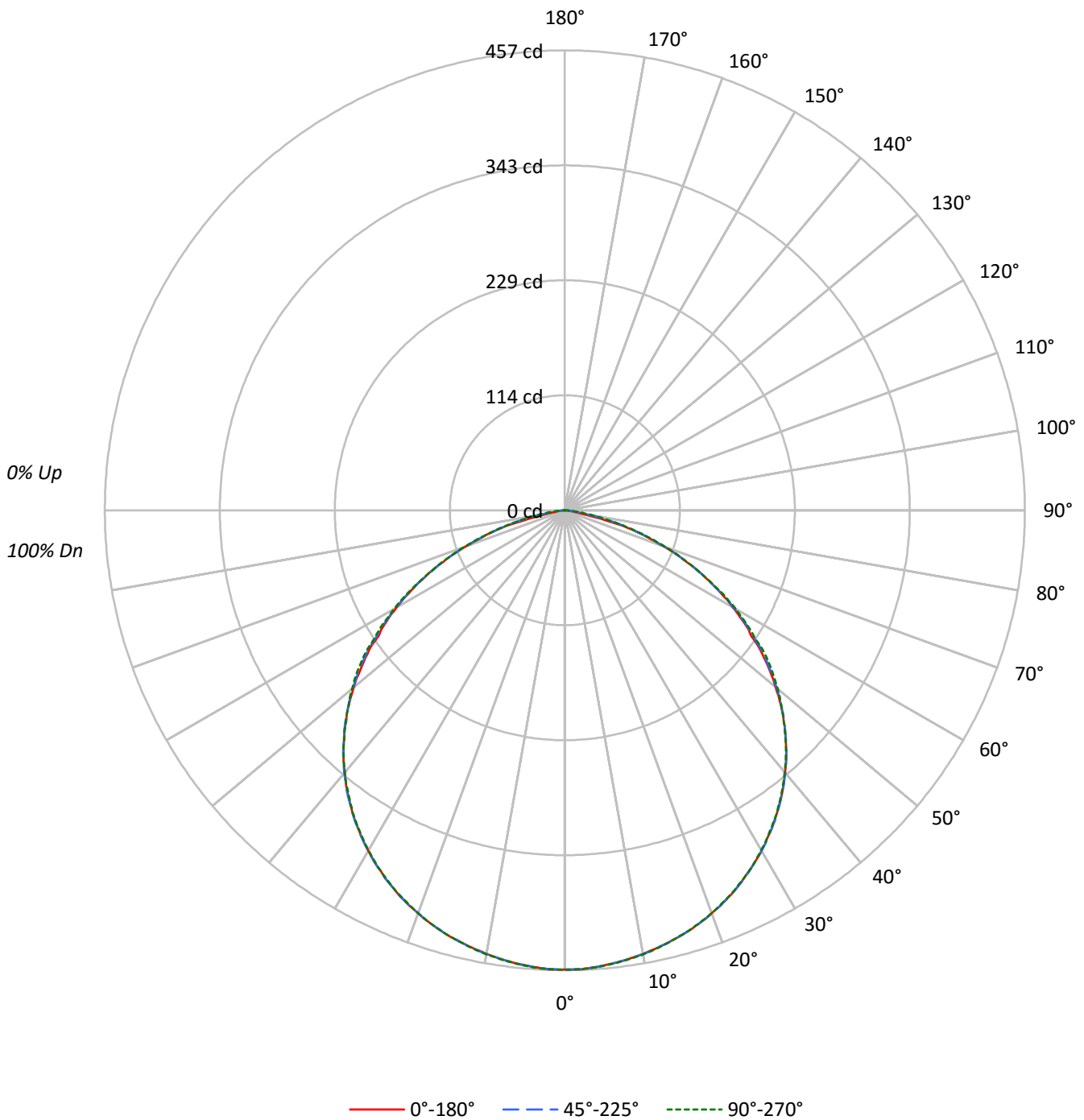
Lumens per Lamp: N/A
Luminaire Lumens: 1253.2 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

Input Watts (W): 9.9
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	98	107	103	99	96	99	96	93	95	92	90	91	89	88	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	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	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19856	19856	19856
5°	19823	19825	19836
10°	19770	19779	19792
15°	19760	19751	19746
20°	19733	19735	19724
25°	19687	19699	19668
30°	19623	19631	19588
35°	19509	19517	19498
40°	19328	19354	19294
45°	19039	19045	19026
50°	18501	18602	18670
55°	17783	17905	18109
60°	16755	16868	17033
65°	15459	15423	15480
70°	13252	13265	13494
75°	10084	10420	10554
80°	2555	5210	6939
85°	1148	1472	3194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	3.4
10°-20°	123.9	9.9
20°-30°	189.1	15.1
30°-40°	229.8	18.3
40°-50°	238.5	19.0
50°-60°	210.4	16.8
60°-70°	148.1	11.8
70°-80°	64.1	5.1
80°-90°	6.1	0.5
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°	356.1	28.4
0°-40°	585.9	46.8
0°-60°	1034.9	82.6
0°-90°	1253.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	454	454	454	454	454	43
15°	439	439	439	439	438	124
25°	410	410	410	410	410	189
35°	367	368	368	367	367	230
45°	310	310	310	310	309	238
55°	234	235	236	238	239	209
65°	150	149	150	151	150	148
75°	60	62	62	62	63	58
85°	2	3	3	4	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	456.5	456.5	456.5	456.5
1°	456.6	456.2	456.4	456.4
2°	456.4	456.1	456.0	456.2
3°	455.7	455.5	455.7	455.9
4°	454.8	454.8	455.2	455.2
5°	454.0	453.9	454.2	454.3
6°	452.9	452.8	453.2	453.4
7°	451.8	451.7	452.1	452.2
8°	450.4	450.4	450.8	451.0
9°	449.2	449.1	449.2	449.4
10°	447.6	447.6	448.0	448.1
11°	445.9	446.1	446.3	446.4
12°	444.4	444.4	444.5	444.6
13°	442.5	442.5	442.6	442.6
14°	440.6	440.6	440.7	440.8
15°	438.8	438.6	438.6	438.5
16°	436.6	436.4	436.3	436.5
17°	434.2	434.1	434.2	434.0
18°	431.6	431.8	431.6	431.7
19°	429.2	429.0	429.1	428.9
20°	426.3	426.4	426.3	426.1
21°	423.4	423.5	423.3	423.2
22°	420.4	420.6	420.4	420.1
23°	417.2	417.3	417.2	416.7
24°	413.8	413.9	413.9	413.6
25°	410.2	410.5	410.4	409.8
26°	406.8	406.9	406.8	406.3
27°	402.6	403.0	403.0	402.6
28°	399.1	399.2	399.0	398.8
29°	394.8	395.0	395.1	394.4
30°	390.7	390.8	390.9	390.0
31°	386.3	386.3	386.5	385.8
32°	381.7	382.0	382.0	381.2
33°	377.2	377.3	377.2	376.5
34°	372.3	372.7	372.6	371.6
35°	367.4	367.7	367.4	367.2
36°	362.2	362.6	362.4	361.4
37°	357.2	357.4	357.1	356.5
38°	351.6	352.2	351.8	351.0
39°	346.2	346.6	346.0	345.7
40°	340.4	341.0	340.7	339.8
41°	334.6	335.0	334.7	334.2
42°	328.5	329.2	328.7	328.5
43°	322.4	322.8	322.5	322.2
44°	315.8	316.3	316.2	315.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	309.5	309.5	309.7	309.3
46°	302.4	303.1	303.2	302.4
47°	295.8	296.0	296.5	296.2
48°	288.6	288.9	289.5	289.2
49°	281.2	281.8	282.5	283.0
50°	273.4	274.4	275.4	275.9
51°	266.2	266.7	267.8	269.0
52°	258.0	259.0	260.8	262.2
53°	250.4	251.1	253.2	254.7
54°	242.4	242.9	245.5	247.0
55°	234.5	234.7	237.5	238.8
56°	223.0	226.1	227.3	228.0
57°	217.5	217.4	221.2	221.2
58°	209.0	209.2	212.9	212.8
59°	201.2	200.4	204.5	203.9
60°	192.6	192.0	195.8	195.8
61°	184.6	183.3	187.0	186.9
62°	175.8	175.0	177.8	178.5
63°	167.4	166.0	169.3	169.1
64°	158.8	157.3	159.8	159.8
65°	150.2	149.0	150.7	150.4
66°	141.2	140.2	141.2	141.8
67°	132.0	131.9	131.9	132.6
68°	122.8	123.2	122.2	124.1
69°	113.6	114.5	113.0	115.0
70°	104.2	104.8	103.8	106.1
71°	94.9	95.8	94.6	96.9
72°	85.8	86.4	86.0	88.0
73°	77.8	77.6	77.6	79.7
74°	68.5	69.4	69.4	70.6
75°	60.0	62.6	61.4	62.8
76°	43.0	55.1	55.2	55.0
77°	29.2	42.2	47.3	47.3
78°	22.4	29.4	40.9	40.0
79°	16.0	20.0	34.2	33.8
80°	10.2	13.7	27.9	27.7
81°	7.4	9.0	21.2	22.4
82°	5.6	6.3	14.8	17.4
83°	4.4	4.8	8.0	13.2
84°	3.3	3.8	4.4	9.8
85°	2.3	2.8	3.1	6.4
86°	1.6	1.9	2.2	3.8
87°	1.0	1.2	1.5	2.1
88°	0.5	0.6	0.8	1.0
89°	0.1	0.3	0.4	0.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.0	0.0	0.2	0.0

(END OF REPORT)