

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: P295361

Luminaire Tested: **LM-10L-930-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295361
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-930-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 3000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

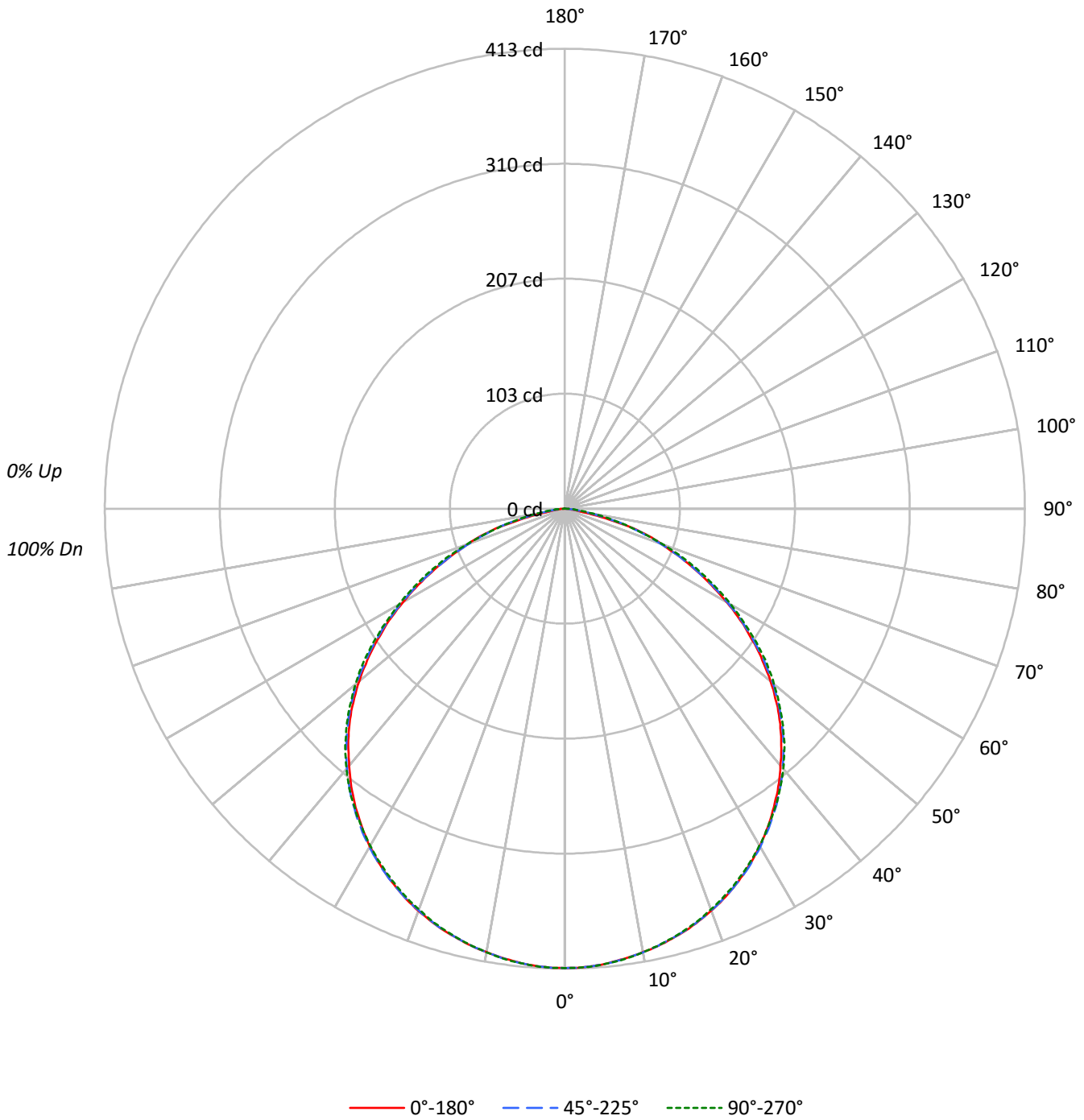
Lumens per Lamp: N/A
Luminaire Lumens: 1118.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

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°	36193	36193	36193
5°	36146	36142	36138
10°	36021	36039	36039
15°	35962	35949	35908
20°	35883	35846	35762
25°	35705	35724	35579
30°	35472	35537	35401
35°	35049	35263	35188
40°	34490	34857	34925
45°	33916	34208	34388
50°	32861	33277	33462
55°	31382	31627	32131
60°	29404	29702	30175
65°	26755	26838	27730
70°	23544	23211	24057
75°	17353	19217	19047
80°	6314	10760	13033
85°	3825	4982	8152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	3.5
10°-20°	111.7	10.0
20°-30°	170.0	15.2
30°-40°	205.6	18.4
40°-50°	212.3	19.0
50°-60°	185.2	16.6
60°-70°	128.6	11.5
70°-80°	58.3	5.2
80°-90°	7.7	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°	320.7	28.7
0°-40°	526.4	47.1
0°-60°	923.8	82.6
0°-90°	1118.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1118.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	410	410	410	410	410	39
15°	396	396	396	396	395	112
25°	369	369	369	369	368	170
35°	327	328	329	330	329	205
45°	273	274	276	277	277	210
55°	205	205	207	209	210	183
65°	129	129	129	130	134	127
75°	51	57	57	55	56	55
85°	4	4	5	6	8	5
90°	0	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	412.6	412.6	412.6	412.6
1°	412.6	412.6	412.5	412.5
2°	412.4	412.2	412.4	412.2
3°	411.8	411.8	412.0	412.0
4°	411.2	411.2	411.2	411.3
5°	410.5	410.4	410.5	410.4
6°	409.4	409.5	409.6	409.7
7°	408.2	408.3	408.5	408.7
8°	407.0	407.1	407.5	407.5
9°	406.0	405.7	406.1	406.1
10°	404.4	404.6	404.6	404.6
11°	403.1	403.0	403.0	402.8
12°	401.4	401.5	401.2	401.4
13°	399.8	399.7	399.5	399.5
14°	397.9	397.8	397.6	397.4
15°	396.0	396.0	395.7	395.4
16°	394.1	394.0	393.6	393.4
17°	391.7	391.7	391.4	390.9
18°	389.6	389.4	388.9	388.6
19°	387.0	386.8	386.5	385.8
20°	384.4	384.3	383.7	383.1
21°	381.6	381.5	381.2	380.3
22°	378.8	378.8	378.1	377.4
23°	375.6	375.8	375.3	374.2
24°	372.4	372.6	372.1	371.2
25°	368.9	369.2	369.0	367.6
26°	365.6	365.9	365.6	364.3
27°	361.7	362.4	362.3	360.6
28°	358.1	358.4	358.6	357.2
29°	353.8	354.5	354.8	353.2
30°	350.2	350.5	351.2	349.5
31°	345.6	346.4	347.2	345.4
32°	341.4	342.2	343.2	341.4
33°	336.8	337.6	339.0	337.0
34°	332.0	333.2	334.7	333.0
35°	327.3	328.4	330.2	328.6
36°	322.2	323.7	325.4	324.5
37°	317.5	318.8	320.7	319.8
38°	312.2	313.9	315.6	315.0
39°	306.8	308.6	310.6	310.1
40°	301.2	303.1	305.7	305.0
41°	295.8	297.6	300.2	299.8
42°	290.5	291.9	294.9	294.6
43°	284.9	286.2	289.1	289.1
44°	279.2	280.0	283.6	283.0



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	273.4	274.1	277.4	277.2
46°	267.2	267.6	271.7	271.1
47°	261.2	261.5	265.3	264.8
48°	254.2	255.0	259.1	258.2
49°	248.0	248.6	252.3	252.0
50°	240.8	241.8	245.9	245.2
51°	234.3	234.9	238.8	239.0
52°	226.8	226.9	231.8	232.0
53°	220.4	220.4	224.4	225.4
54°	212.8	213.1	216.8	217.0
55°	205.2	205.2	208.4	210.1
56°	197.9	198.1	201.5	202.2
57°	191.0	191.0	193.5	195.0
58°	182.9	183.6	185.9	187.0
59°	175.7	176.6	177.5	179.8
60°	167.6	168.8	169.8	172.0
61°	159.6	161.3	161.2	164.5
62°	152.0	153.4	153.3	157.0
63°	144.4	145.7	145.1	149.2
64°	136.6	137.5	137.0	141.4
65°	128.9	129.6	129.0	133.6
66°	121.0	121.4	121.2	126.0
67°	113.3	113.3	113.4	118.2
68°	105.6	105.6	105.6	110.4
69°	98.3	98.2	97.9	102.4
70°	91.8	90.8	90.2	93.8
71°	85.6	83.8	82.8	85.4
72°	79.0	77.2	75.4	77.7
73°	71.1	70.9	68.2	70.1
74°	63.8	65.1	61.4	62.9
75°	51.2	58.4	55.0	56.2
76°	42.2	48.7	48.6	49.5
77°	33.2	40.6	41.5	43.1
78°	26.0	34.3	36.5	37.2
79°	18.2	23.8	31.1	31.2
80°	12.5	16.2	26.4	25.8
81°	9.5	11.4	21.6	20.8
82°	7.7	8.6	16.2	17.6
83°	6.2	6.9	10.7	13.5
84°	5.0	5.6	7.0	10.8
85°	3.8	4.4	5.5	8.1
86°	2.7	3.4	4.1	5.8
87°	2.0	2.5	3.2	4.3
88°	1.3	1.8	2.4	3.1
89°	0.8	1.3	1.8	2.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.5	1.0	1.3	1.4

(END OF REPORT)