

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: P295353

Luminaire Tested: **LM-05L-930-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1813875A001)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-05L-930-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 3000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

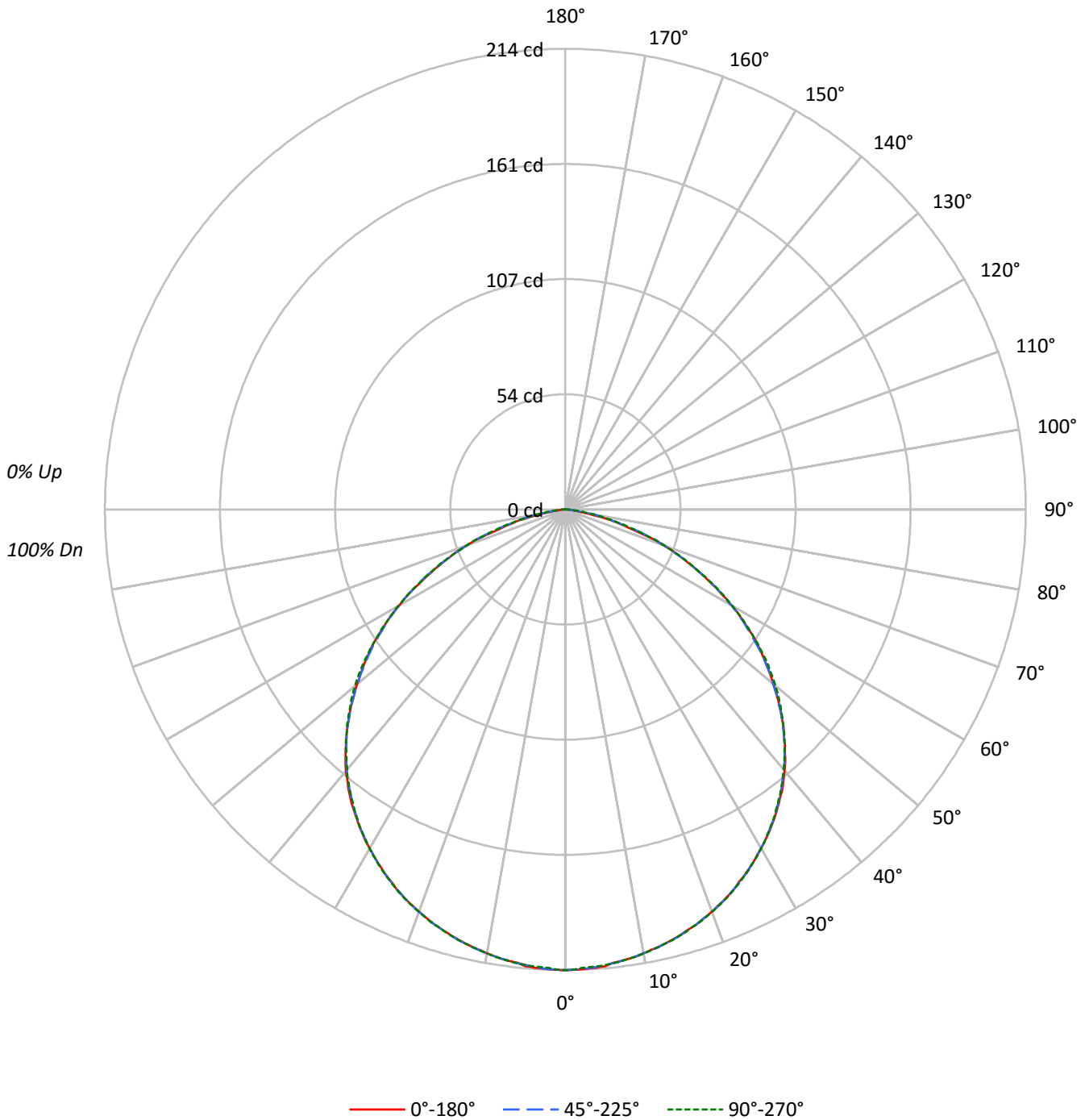
Lumens per Lamp: N/A
Luminaire Lumens: 583.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

Input Watts (W): 5.1
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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	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	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°	18781	18781	18781
5°	18756	18712	18712
10°	18652	18656	18661
15°	18617	18626	18617
20°	18576	18581	18586
25°	18496	18515	18525
30°	18425	18425	18435
35°	18333	18301	18279
40°	18161	18087	18070
45°	17789	17746	17814
50°	17222	17236	17413
55°	16670	16525	16731
60°	15649	15649	15719
65°	14156	14332	14322
70°	12516	12362	12413
75°	9151	9524	9625
80°	4496	6314	6769
85°	2013	2667	3825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	3.5
10°-20°	57.9	9.9
20°-30°	88.2	15.1
30°-40°	106.9	18.3
40°-50°	110.3	18.9
50°-60°	96.8	16.6
60°-70°	68.1	11.7
70°-80°	30.5	5.2
80°-90°	4.2	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°	166.3	28.5
0°-40°	273.1	46.8
0°-60°	480.1	82.4
0°-90°	583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	214	214	214	214	214	
5°	213	212	212	213	212	20
15°	205	205	205	205	205	58
25°	191	191	191	191	191	88
35°	171	171	171	171	171	107
45°	143	143	143	143	144	110
55°	109	108	108	109	109	97
65°	68	69	69	69	69	68
75°	27	27	28	29	28	29
85°	2	2	3	3	4	3
90°	1	1	1	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	214.1	214.1	214.1	214.1
1°	214.0	213.7	214.0	214.0
2°	213.9	213.6	214.0	213.2
3°	213.6	213.4	213.4	213.0
4°	213.4	213.1	213.0	212.8
5°	213.0	212.3	212.7	212.5
6°	211.8	212.0	212.2	212.0
7°	211.4	211.4	211.5	211.6
8°	210.9	210.8	210.9	210.9
9°	210.2	210.2	210.2	210.4
10°	209.4	209.4	209.5	209.5
11°	208.6	208.7	208.8	208.8
12°	207.9	207.9	208.0	207.9
13°	207.0	207.0	207.1	207.1
14°	206.0	206.1	206.1	206.2
15°	205.0	205.0	205.2	205.0
16°	203.8	204.0	203.9	203.9
17°	202.8	202.7	202.9	202.8
18°	201.6	201.6	201.6	201.7
19°	200.3	200.2	200.3	200.4
20°	199.0	199.0	199.1	199.1
21°	197.4	197.5	197.6	197.7
22°	196.1	196.1	196.2	196.3
23°	194.5	194.5	194.6	194.7
24°	193.0	192.9	193.0	193.2
25°	191.1	191.3	191.3	191.4
26°	189.5	189.6	189.6	189.7
27°	187.6	187.8	187.8	187.9
28°	185.8	185.8	185.9	186.0
29°	183.8	183.9	183.9	184.0
30°	181.9	181.8	182.0	182.0
31°	180.0	179.8	179.8	179.8
32°	177.9	177.6	177.8	177.6
33°	175.8	175.4	175.6	175.4
34°	173.4	173.2	173.1	173.1
35°	171.2	170.9	170.9	170.7
36°	168.9	168.5	168.3	168.2
37°	166.4	166.1	165.8	165.8
38°	164.0	163.6	163.2	163.2
39°	161.2	160.9	160.4	160.7
40°	158.6	158.2	157.7	157.8
41°	155.8	155.5	154.9	155.2
42°	152.6	152.5	152.0	152.2
43°	149.6	149.6	149.0	149.5
44°	146.4	146.4	146.0	146.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	143.4	143.2	142.9	143.6
46°	139.9	139.8	139.8	140.4
47°	136.8	136.4	136.4	137.2
48°	133.2	132.8	133.4	134.2
49°	129.7	129.3	130.0	130.9
50°	126.2	125.8	126.8	127.6
51°	122.8	122.1	123.3	124.2
52°	119.4	118.4	119.8	120.4
53°	115.8	114.8	116.2	117.0
54°	112.4	111.0	112.6	113.0
55°	109.0	107.3	108.8	109.4
56°	105.2	103.6	105.1	105.2
57°	101.2	99.9	101.2	101.5
58°	97.4	96.2	97.4	97.4
59°	93.3	92.8	93.4	93.6
60°	89.2	88.8	89.6	89.6
61°	85.2	85.2	85.4	85.6
62°	80.8	81.2	81.3	81.5
63°	76.6	77.4	76.9	77.2
64°	72.4	73.4	72.8	73.2
65°	68.2	69.4	68.7	69.0
66°	64.4	65.2	64.5	65.0
67°	60.2	61.3	60.4	60.9
68°	56.8	56.8	55.6	56.8
69°	52.8	53.0	51.9	52.6
70°	48.8	49.1	47.3	48.4
71°	44.6	45.4	43.7	45.5
72°	39.1	41.6	39.7	39.8
73°	33.3	37.1	36.2	35.9
74°	29.5	32.1	32.6	32.2
75°	27.0	27.0	29.2	28.4
76°	24.1	23.4	25.6	25.0
77°	19.8	20.7	22.4	21.8
78°	14.9	18.0	19.5	19.0
79°	11.2	14.7	16.7	15.9
80°	8.9	11.2	13.8	13.4
81°	6.1	7.8	10.7	10.6
82°	4.2	5.5	8.6	8.4
83°	3.3	4.0	6.2	6.8
84°	2.7	3.0	4.6	5.0
85°	2.0	2.4	2.9	3.8
86°	1.5	1.8	2.1	2.6
87°	1.2	1.5	1.6	1.7
88°	0.9	1.1	1.1	1.0
89°	0.7	0.9	0.8	0.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.6	0.7	0.5	0.3

(END OF REPORT)