

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: P295354

Luminaire Tested: **LM-05L-935-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295354
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-935-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 3500K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

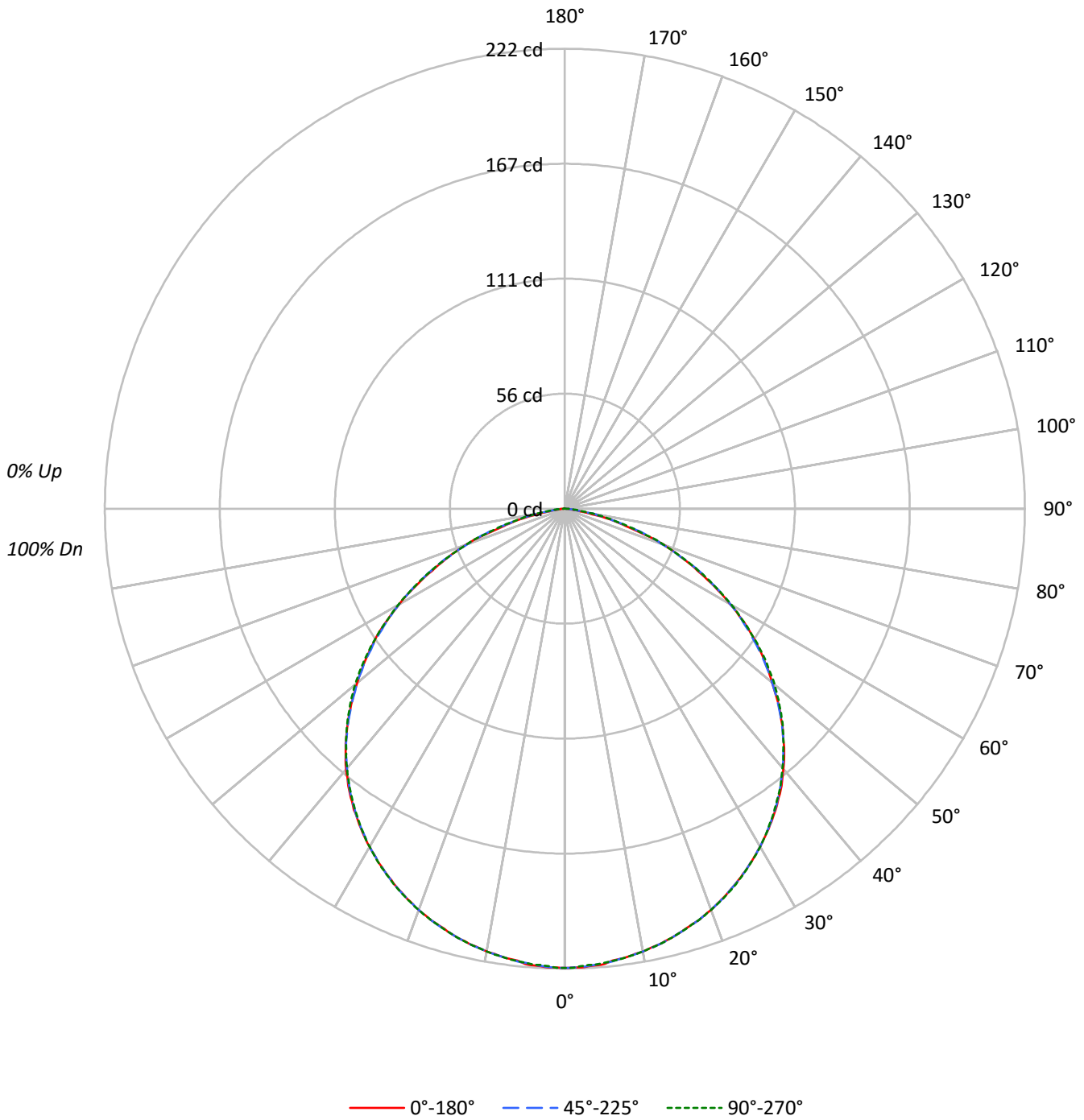
Lumens per Lamp: N/A
Luminaire Lumens: 603.8 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

Input Watts (W): 5.1
Input Voltage (V): 120
Input Current (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	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°	19447	19447	19447
5°	19425	19381	19381
10°	19329	19329	19329
15°	19289	19289	19280
20°	19249	19239	19249
25°	19164	19174	19183
30°	19083	19083	19093
35°	18997	18954	18933
40°	18802	18739	18711
45°	18422	18379	18459
50°	17836	17843	18041
55°	17251	17113	17312
60°	16211	16211	16281
65°	14654	14830	14820
70°	12978	12798	12875
75°	9490	9863	9964
80°	4647	6491	6971
85°	2214	2717	3925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	3.5
10°-20°	60.0	9.9
20°-30°	91.3	15.1
30°-40°	110.7	18.3
40°-50°	114.2	18.9
50°-60°	100.2	16.6
60°-70°	70.5	11.7
70°-80°	31.6	5.2
80°-90°	4.4	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°	172.2	28.5
0°-40°	282.8	46.8
0°-60°	497.3	82.4
0°-90°	603.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	603.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	222	222	222	222	222	
5°	221	220	220	220	220	21
15°	212	212	212	212	212	60
25°	198	198	198	198	198	91
35°	177	177	177	177	177	111
45°	148	148	148	148	149	114
55°	113	112	112	113	113	100
65°	71	72	71	71	71	70
75°	28	28	29	30	29	30
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°	221.7	221.7	221.7	221.7
1°	221.6	221.3	221.7	221.7
2°	221.6	221.3	221.6	220.9
3°	221.2	221.0	221.0	220.6
4°	221.0	220.7	220.6	220.5
5°	220.6	219.9	220.3	220.1
6°	219.4	219.5	219.9	219.6
7°	219.0	219.0	219.0	219.2
8°	218.4	218.4	218.5	218.4
9°	217.6	217.8	217.7	217.9
10°	217.0	217.0	217.0	217.0
11°	216.1	216.2	216.2	216.2
12°	215.3	215.3	215.4	215.3
13°	214.4	214.4	214.5	214.5
14°	213.4	213.4	213.4	213.5
15°	212.4	212.3	212.5	212.3
16°	211.0	211.3	211.2	211.2
17°	210.0	210.0	210.2	210.0
18°	208.8	208.8	208.8	208.9
19°	207.4	207.4	207.6	207.6
20°	206.2	206.0	206.2	206.2
21°	204.5	204.5	204.7	204.8
22°	203.1	203.1	203.2	203.3
23°	201.4	201.4	201.6	201.6
24°	199.8	199.8	199.9	200.1
25°	198.0	198.1	198.1	198.2
26°	196.2	196.3	196.3	196.4
27°	194.4	194.4	194.4	194.5
28°	192.5	192.4	192.5	192.6
29°	190.4	190.5	190.4	190.6
30°	188.4	188.4	188.4	188.5
31°	186.4	186.3	186.2	186.3
32°	184.2	183.9	184.1	184.0
33°	182.0	181.7	181.8	181.6
34°	179.6	179.4	179.3	179.2
35°	177.4	177.0	177.0	176.8
36°	174.8	174.5	174.4	174.2
37°	172.4	172.0	171.7	171.7
38°	169.8	169.4	169.1	169.1
39°	166.9	166.7	166.1	166.4
40°	164.2	163.9	163.4	163.4
41°	161.3	161.0	160.4	160.8
42°	158.1	158.0	157.4	157.6
43°	155.0	155.0	154.4	154.8
44°	151.6	151.6	151.2	151.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	148.5	148.3	148.0	148.8
46°	144.9	144.8	144.8	145.5
47°	141.6	141.3	141.4	142.2
48°	138.0	137.6	138.1	139.0
49°	134.3	133.9	134.6	135.6
50°	130.7	130.2	131.3	132.2
51°	127.2	126.4	127.7	128.5
52°	123.6	122.6	124.1	124.7
53°	120.0	118.9	120.4	121.1
54°	116.4	114.9	116.6	117.0
55°	112.8	111.1	112.7	113.2
56°	109.0	107.2	108.8	109.0
57°	104.8	103.4	104.8	105.2
58°	100.9	99.7	100.9	100.9
59°	96.6	96.1	96.8	96.9
60°	92.4	92.0	92.8	92.8
61°	88.2	88.2	88.4	88.6
62°	83.6	84.1	84.2	84.4
63°	79.2	80.2	79.7	80.0
64°	75.0	76.0	75.4	75.8
65°	70.6	71.8	71.1	71.4
66°	66.8	67.6	66.8	67.4
67°	62.4	63.5	62.6	63.1
68°	58.8	58.8	57.6	58.8
69°	54.6	54.8	53.7	54.5
70°	50.6	50.8	49.0	50.2
71°	46.3	47.0	45.2	47.2
72°	40.5	43.1	41.1	41.2
73°	34.6	38.5	37.5	37.2
74°	30.5	33.2	33.8	33.4
75°	28.0	28.0	30.2	29.4
76°	25.0	24.3	26.6	25.8
77°	20.5	21.5	23.2	22.6
78°	15.4	18.7	20.2	19.7
79°	11.6	15.2	17.3	16.5
80°	9.2	11.5	14.2	13.8
81°	6.3	8.1	11.0	11.0
82°	4.4	5.7	8.9	8.8
83°	3.4	4.1	6.4	7.0
84°	2.7	3.1	4.8	5.2
85°	2.2	2.4	3.0	3.9
86°	1.6	1.9	2.2	2.7
87°	1.2	1.5	1.6	1.8
88°	1.0	1.2	1.2	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	0.4

(END OF REPORT)