

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: P295355

Luminaire Tested: **LM-05L-940-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295355
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-940-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 4000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

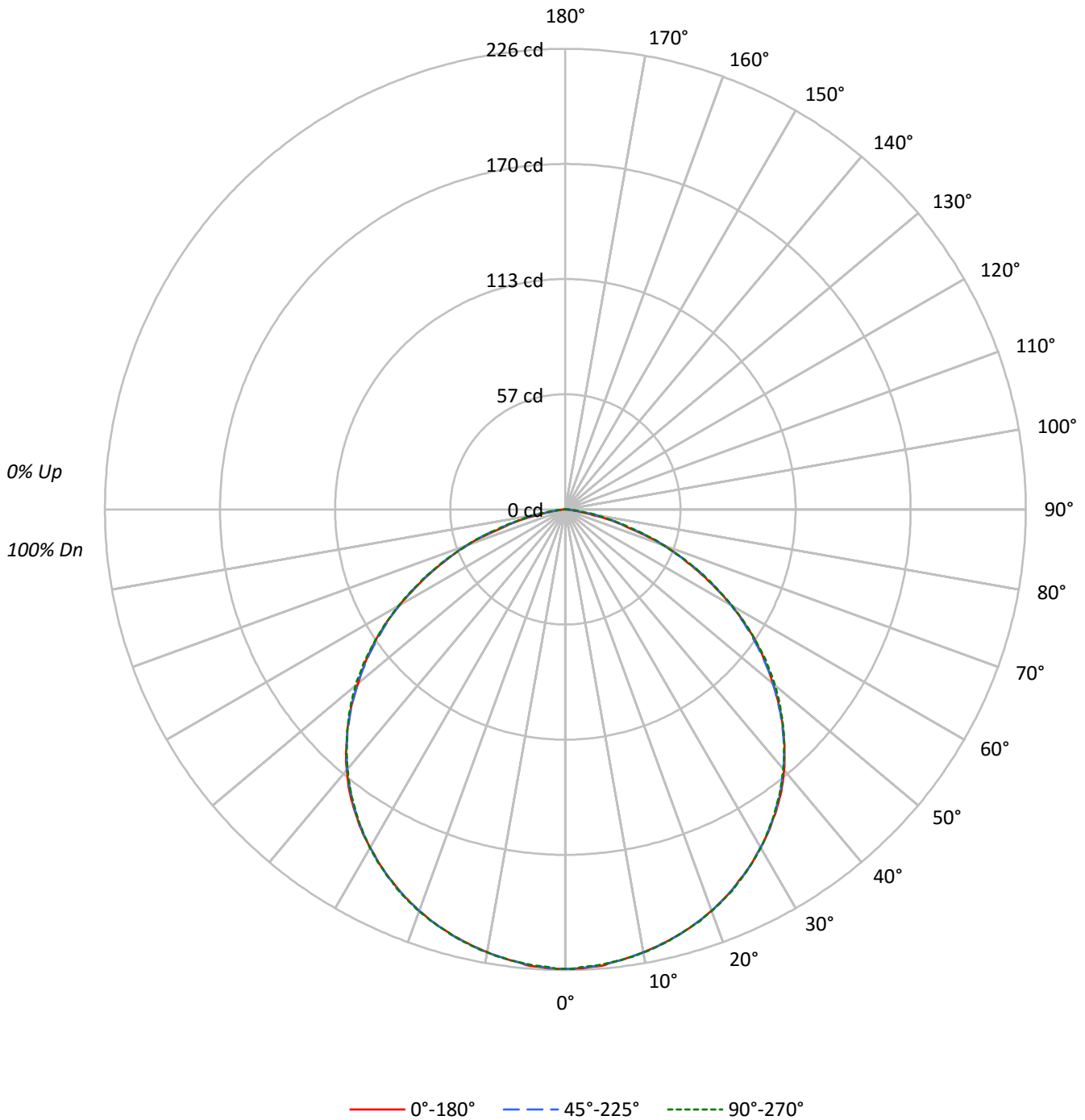
Lumens per Lamp: N/A
Luminaire Lumens: 614.2 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

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	
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°	19781	19781	19781
5°	19759	19715	19707
10°	19649	19663	19667
15°	19616	19625	19616
20°	19575	19575	19585
25°	19483	19508	19512
30°	19407	19412	19427
35°	19318	19281	19254
40°	19123	19060	19043
45°	18732	18689	18757
50°	18150	18157	18341
55°	17557	17404	17618
60°	16491	16482	16561
65°	14903	15100	15069
70°	13208	13029	13080
75°	9625	10049	10134
80°	4748	6643	7072
85°	2214	2818	4026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	3.5
10°-20°	61.0	9.9
20°-30°	92.9	15.1
30°-40°	112.6	18.3
40°-50°	116.2	18.9
50°-60°	101.9	16.6
60°-70°	71.7	11.7
70°-80°	32.2	5.2
80°-90°	4.5	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°	175.2	28.5
0°-40°	287.7	46.8
0°-60°	505.8	82.4
0°-90°	614.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	226	226	226	226	226	
5°	224	224	224	224	224	21
15°	216	216	216	216	216	61
25°	201	201	202	202	202	93
35°	180	180	180	180	180	113
45°	151	151	151	151	151	116
55°	115	113	114	115	115	102
65°	72	73	73	72	73	71
75°	28	28	30	31	30	30
85°	2	2	3	3	4	3
90°	1	1	1	0	0	



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CATALOG NUMBER: LM-05L-940-120-UNV-S-STD-1F

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	225.5	225.5	225.5	225.5
1°	225.4	225.1	225.5	225.6
2°	225.4	225.0	225.4	224.7
3°	225.0	224.8	224.8	224.4
4°	224.8	224.5	224.4	224.3
5°	224.4	223.7	224.1	223.8
6°	223.2	223.3	223.6	223.3
7°	222.8	222.8	222.8	223.0
8°	222.2	222.1	222.2	222.2
9°	221.4	221.5	221.5	221.6
10°	220.6	220.7	220.8	220.8
11°	219.8	219.9	219.9	220.0
12°	219.0	219.0	219.1	219.0
13°	218.0	218.1	218.2	218.2
14°	217.0	217.1	217.1	217.2
15°	216.0	216.0	216.2	216.0
16°	214.7	214.9	214.8	214.8
17°	213.6	213.6	213.8	213.6
18°	212.4	212.4	212.4	212.6
19°	211.0	211.0	211.1	211.1
20°	209.7	209.6	209.8	209.8
21°	208.1	208.1	208.2	208.3
22°	206.6	206.6	206.8	206.8
23°	205.0	204.8	205.0	205.2
24°	203.2	203.2	203.4	203.6
25°	201.3	201.5	201.6	201.6
26°	199.6	199.7	199.7	199.8
27°	197.7	197.8	197.8	197.9
28°	195.8	195.8	195.8	196.0
29°	193.6	193.8	193.7	193.9
30°	191.6	191.6	191.7	191.8
31°	189.6	189.5	189.4	189.5
32°	187.5	187.1	187.3	187.2
33°	185.2	184.8	184.9	184.8
34°	182.7	182.4	182.4	182.4
35°	180.4	180.0	180.1	179.8
36°	177.9	177.5	177.3	177.1
37°	175.4	175.0	174.6	174.7
38°	172.8	172.4	172.0	172.0
39°	169.8	169.6	169.0	169.3
40°	167.0	166.7	166.2	166.3
41°	164.0	163.8	163.2	163.5
42°	160.8	160.7	160.1	160.4
43°	157.6	157.6	157.0	157.4
44°	154.2	154.2	153.8	154.4



TEST NUMBER: P295355

CATALOG NUMBER: LM-05L-940-120-UNV-S-STD-1F

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	151.0	150.8	150.5	151.2
46°	147.4	147.3	147.3	148.0
47°	144.1	143.7	143.8	144.6
48°	140.4	140.0	140.5	141.4
49°	136.6	136.2	136.9	137.9
50°	133.0	132.5	133.6	134.4
51°	129.4	128.6	129.9	130.8
52°	125.8	124.7	126.2	126.8
53°	122.1	120.9	122.5	123.2
54°	118.5	116.9	118.6	119.0
55°	114.8	113.0	114.6	115.2
56°	110.8	109.1	110.7	110.8
57°	106.6	105.2	106.6	107.0
58°	102.6	101.4	102.6	102.6
59°	98.2	97.7	98.4	98.6
60°	94.0	93.6	94.3	94.4
61°	89.7	89.7	89.9	90.2
62°	85.0	85.5	85.7	85.8
63°	80.6	81.6	81.0	81.4
64°	76.4	77.3	76.7	77.2
65°	71.8	73.1	72.4	72.6
66°	67.8	68.8	68.0	68.5
67°	63.4	64.6	63.6	64.2
68°	59.8	59.8	58.6	59.8
69°	55.6	55.8	54.6	55.4
70°	51.5	51.7	49.9	51.0
71°	47.0	47.8	46.0	48.0
72°	41.2	43.9	41.8	42.0
73°	35.2	39.1	38.1	37.8
74°	31.0	33.8	34.3	33.9
75°	28.4	28.5	30.8	29.9
76°	25.4	24.7	27.0	26.4
77°	20.9	21.8	23.6	22.9
78°	15.7	19.0	20.6	20.0
79°	11.9	15.4	17.6	16.8
80°	9.4	11.8	14.5	14.0
81°	6.4	8.3	11.2	11.2
82°	4.5	5.8	9.0	9.0
83°	3.5	4.2	6.6	7.1
84°	2.8	3.2	4.9	5.2
85°	2.2	2.5	3.1	4.0
86°	1.6	2.0	2.2	2.7
87°	1.3	1.5	1.7	1.8
88°	1.0	1.2	1.2	1.0
89°	0.8	0.9	0.9	0.6



TEST NUMBER: P295355
CATALOG NUMBER: LM-05L-940-120-UNV-S-STD-1F

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.6	0.8	0.5	0.4

(END OF REPORT)