

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: P295352

Luminaire Tested: **LM-05L-927-120-UNV-S-STD-1F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295352
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-927-120-UNV-S-STD-1F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 12 INCH FIXTURE.
Light Source: (42) 2700K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

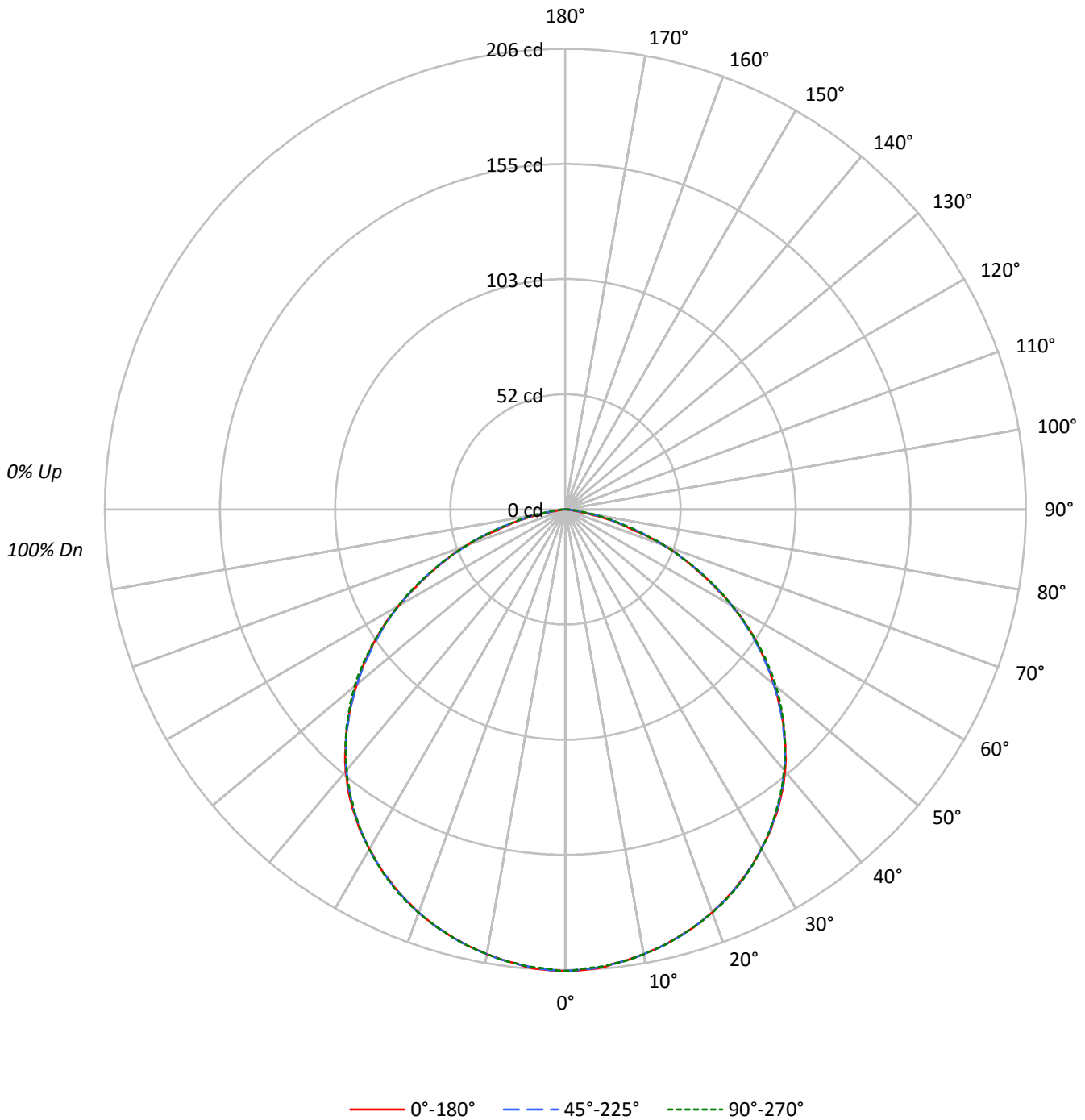
Lumens per Lamp: N/A
Luminaire Lumens: 562.2 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.3m x H: 0m)
CIE Type: Direct

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	42	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°	18105	18105	18105
5°	18086	18047	18051
10°	17993	17993	17993
15°	17954	17958	17945
20°	17914	17914	17923
25°	17828	17857	17867
30°	17766	17766	17776
35°	17680	17648	17626
40°	17508	17446	17428
45°	17144	17107	17181
50°	16608	16608	16785
55°	16058	15928	16119
60°	15088	15088	15158
65°	13616	13813	13803
70°	12106	11939	12003
75°	8812	9202	9286
80°	4344	6087	6517
85°	2013	2516	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.5	3.5
10°-20°	55.8	9.9
20°-30°	85.0	15.1
30°-40°	103.0	18.3
40°-50°	106.3	18.9
50°-60°	93.3	16.6
60°-70°	65.7	11.7
70°-80°	29.5	5.2
80°-90°	4.1	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°	160.3	28.5
0°-40°	263.3	46.8
0°-60°	463.0	82.4
0°-90°	562.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	206	206	206	206	206	
5°	205	205	205	205	205	19
15°	198	198	198	198	198	56
25°	184	184	184	185	185	85
35°	165	165	165	165	165	103
45°	138	138	138	138	138	106
55°	105	104	104	105	105	93
65°	66	67	67	66	66	65
75°	26	26	27	28	27	28
85°	2	2	2	3	4	3
90°	0	1	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	206.4	206.4	206.4	206.4
1°	206.4	206.1	206.4	206.4
2°	206.2	206.0	206.3	205.6
3°	206.0	205.8	205.8	205.4
4°	205.8	205.5	205.4	205.3
5°	205.4	204.8	205.1	205.0
6°	204.3	204.4	204.7	204.4
7°	203.9	203.9	203.9	204.0
8°	203.4	203.3	203.4	203.4
9°	202.6	202.8	202.7	202.8
10°	202.0	202.0	202.0	202.0
11°	201.2	201.3	201.3	201.3
12°	200.4	200.5	200.6	200.4
13°	199.6	199.6	199.7	199.7
14°	198.6	198.7	198.7	198.8
15°	197.7	197.7	197.8	197.6
16°	196.5	196.7	196.6	196.6
17°	195.6	195.5	195.7	195.5
18°	194.4	194.4	194.4	194.5
19°	193.1	193.0	193.2	193.2
20°	191.9	191.8	192.0	192.0
21°	190.4	190.4	190.6	190.6
22°	189.1	189.1	189.2	189.4
23°	187.6	187.5	187.7	187.8
24°	186.1	186.0	186.1	186.4
25°	184.2	184.5	184.5	184.6
26°	182.7	182.8	182.8	183.0
27°	181.0	181.0	181.0	181.1
28°	179.2	179.2	179.2	179.4
29°	177.2	177.4	177.3	177.4
30°	175.4	175.4	175.4	175.5
31°	173.4	173.4	173.4	173.4
32°	171.6	171.2	171.4	171.3
33°	169.5	169.2	169.2	169.2
34°	167.2	167.0	167.0	166.9
35°	165.1	164.8	164.8	164.6
36°	162.8	162.5	162.3	162.1
37°	160.5	160.2	159.8	159.9
38°	158.1	157.7	157.4	157.4
39°	155.4	155.2	154.6	155.0
40°	152.9	152.6	152.1	152.2
41°	150.2	150.0	149.4	149.7
42°	147.2	147.0	146.5	146.8
43°	144.2	144.2	143.7	144.2
44°	141.2	141.2	140.8	141.3



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	138.2	138.0	137.8	138.5
46°	134.9	134.8	134.8	135.4
47°	131.9	131.5	131.6	132.4
48°	128.4	128.1	128.6	129.4
49°	125.1	124.7	125.3	126.2
50°	121.7	121.2	122.2	123.0
51°	118.4	117.7	118.9	119.8
52°	115.2	114.2	115.5	116.1
53°	111.7	110.6	112.0	112.8
54°	108.4	107.0	108.5	109.0
55°	105.0	103.4	104.9	105.4
56°	101.5	99.8	101.3	101.4
57°	97.6	96.4	97.6	97.9
58°	93.9	92.9	93.9	94.0
59°	89.9	89.4	90.1	90.2
60°	86.0	85.6	86.4	86.4
61°	82.1	82.1	82.3	82.5
62°	77.8	78.3	78.4	78.6
63°	73.8	74.6	74.2	74.5
64°	69.9	70.8	70.2	70.6
65°	65.6	66.9	66.2	66.5
66°	62.1	62.9	62.2	62.6
67°	58.0	59.1	58.3	58.7
68°	54.8	54.8	53.6	54.8
69°	50.9	51.1	50.0	50.8
70°	47.2	47.4	45.7	46.8
71°	43.1	43.7	42.1	43.9
72°	37.7	40.2	38.3	38.4
73°	32.2	35.8	34.9	34.6
74°	28.4	30.9	31.4	31.1
75°	26.0	26.1	28.2	27.4
76°	23.2	22.6	24.8	24.2
77°	19.1	20.0	21.6	21.0
78°	14.4	17.4	18.8	18.3
79°	10.8	14.2	16.2	15.4
80°	8.6	10.8	13.3	12.9
81°	5.9	7.6	10.2	10.2
82°	4.2	5.3	8.3	8.2
83°	3.2	3.8	6.0	6.5
84°	2.5	2.9	4.5	4.9
85°	2.0	2.2	2.8	3.6
86°	1.5	1.8	2.0	2.5
87°	1.2	1.4	1.6	1.6
88°	0.9	1.1	1.1	1.0
89°	0.6	0.8	0.8	0.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.5	0.6	0.4	0.3

(END OF REPORT)