

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: P295356

Luminaire Tested: **LM-05L-927-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1813892A001)
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-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 2700K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

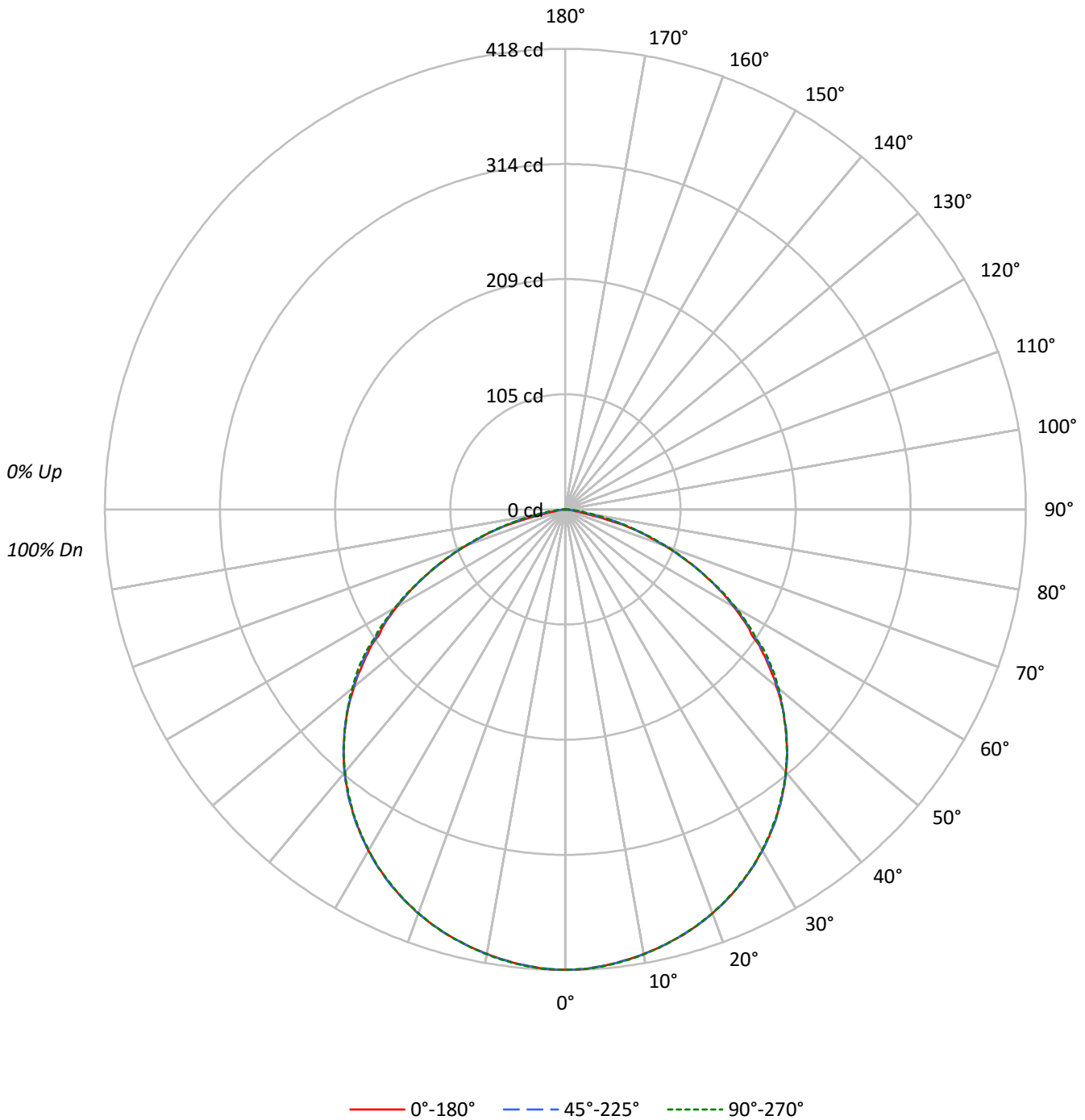
Lumens per Lamp: N/A
Luminaire Lumens: 1147.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

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	88	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	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	33	46	38	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°	18177	18177	18177
5°	18142	18144	18155
10°	18091	18102	18113
15°	18085	18076	18076
20°	18062	18062	18053
25°	18022	18031	17998
30°	17961	17968	17931
35°	17852	17863	17847
40°	17693	17719	17665
45°	17421	17427	17415
50°	16931	17022	17087
55°	16274	16388	16578
60°	15337	15437	15589
65°	14152	14111	14162
70°	12133	12139	12349
75°	9210	9537	9663
80°	2330	4759	6362
85°	1098	1372	2895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	3.4
10°-20°	113.4	9.9
20°-30°	173.1	15.1
30°-40°	210.3	18.3
40°-50°	218.3	19.0
50°-60°	192.6	16.8
60°-70°	135.5	11.8
70°-80°	58.7	5.1
80°-90°	5.6	0.5
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°	325.9	28.4
0°-40°	536.3	46.8
0°-60°	947.2	82.6
0°-90°	1147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	416	415	416	416	416	39
15°	402	401	401	401	401	113
25°	376	376	376	375	375	173
35°	336	336	336	336	336	210
45°	283	283	283	283	283	218
55°	215	215	216	218	219	191
65°	138	137	137	138	138	135
75°	55	57	57	57	58	53
85°	2	2	3	4	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	417.9	417.9	417.9	417.9
1°	418.0	417.6	417.7	417.8
2°	417.7	417.4	417.4	417.5
3°	417.0	416.8	417.0	417.2
4°	416.2	416.2	416.6	416.6
5°	415.5	415.4	415.7	415.8
6°	414.5	414.4	414.8	415.0
7°	413.5	413.4	413.7	413.8
8°	412.3	412.2	412.6	412.8
9°	411.1	411.0	411.2	411.4
10°	409.6	409.7	410.0	410.1
11°	408.2	408.3	408.5	408.6
12°	406.7	406.7	406.8	407.0
13°	405.0	405.0	405.2	405.0
14°	403.2	403.3	403.4	403.4
15°	401.6	401.4	401.4	401.4
16°	399.6	399.4	399.3	399.5
17°	397.4	397.3	397.4	397.2
18°	395.1	395.2	395.0	395.1
19°	392.9	392.7	392.7	392.5
20°	390.2	390.2	390.2	390.0
21°	387.5	387.6	387.5	387.4
22°	384.7	384.9	384.8	384.5
23°	381.8	381.9	381.8	381.4
24°	378.8	378.8	378.8	378.6
25°	375.5	375.8	375.6	375.0
26°	372.3	372.4	372.3	371.8
27°	368.6	368.8	368.8	368.4
28°	365.3	365.3	365.2	365.0
29°	361.2	361.5	361.6	361.0
30°	357.6	357.7	357.8	357.0
31°	353.6	353.6	353.8	353.1
32°	349.4	349.6	349.7	348.9
33°	345.2	345.4	345.2	344.6
34°	340.8	341.1	341.0	340.2
35°	336.2	336.5	336.3	336.1
36°	331.5	331.9	331.6	330.8
37°	327.0	327.2	326.8	326.3
38°	321.8	322.3	322.0	321.2
39°	316.9	317.2	316.7	316.4
40°	311.6	312.2	311.9	311.1
41°	306.3	306.6	306.4	305.8
42°	300.6	301.2	300.8	300.6
43°	295.0	295.4	295.2	294.8
44°	289.1	289.5	289.4	288.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	283.2	283.2	283.4	283.1
46°	276.8	277.4	277.5	276.8
47°	270.8	270.8	271.3	271.1
48°	264.2	264.4	265.0	264.6
49°	257.4	258.0	258.6	259.0
50°	250.2	251.1	252.0	252.5
51°	243.7	244.0	245.1	246.2
52°	236.1	237.1	238.7	240.0
53°	229.1	229.8	231.8	233.1
54°	221.8	222.3	224.7	226.0
55°	214.6	214.8	217.4	218.6
56°	204.1	206.9	208.1	208.6
57°	199.0	199.0	202.4	202.5
58°	191.4	191.5	194.8	194.7
59°	184.1	183.4	187.2	186.6
60°	176.3	175.7	179.2	179.2
61°	169.0	167.8	171.2	171.0
62°	161.0	160.1	162.8	163.4
63°	153.2	152.0	155.0	154.8
64°	145.4	144.0	146.3	146.2
65°	137.5	136.3	137.9	137.6
66°	129.2	128.4	129.2	129.8
67°	120.8	120.7	120.7	121.3
68°	112.4	112.7	111.9	113.6
69°	103.9	104.8	103.4	105.2
70°	95.4	95.9	95.0	97.1
71°	86.8	87.7	86.6	88.6
72°	78.5	79.1	78.7	80.6
73°	71.2	71.0	71.0	73.0
74°	62.7	63.6	63.5	64.6
75°	54.8	57.3	56.2	57.5
76°	39.4	50.4	50.4	50.2
77°	26.7	38.6	43.3	43.2
78°	20.6	26.9	37.4	36.6
79°	14.7	18.3	31.3	30.9
80°	9.3	12.5	25.5	25.4
81°	6.7	8.2	19.4	20.4
82°	5.1	5.8	13.6	16.0
83°	4.0	4.4	7.4	12.0
84°	3.0	3.4	4.0	8.9
85°	2.2	2.6	2.9	5.8
86°	1.5	1.7	2.0	3.5
87°	0.8	1.1	1.3	1.9
88°	0.4	0.6	0.7	0.8
89°	0.1	0.2	0.4	0.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.0	0.0	0.2	0.0

(END OF REPORT)