

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: P295364

Luminaire Tested: **LM-10L-927-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1813875F001)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-10L-927-120-UNV-S-STD-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 2700K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

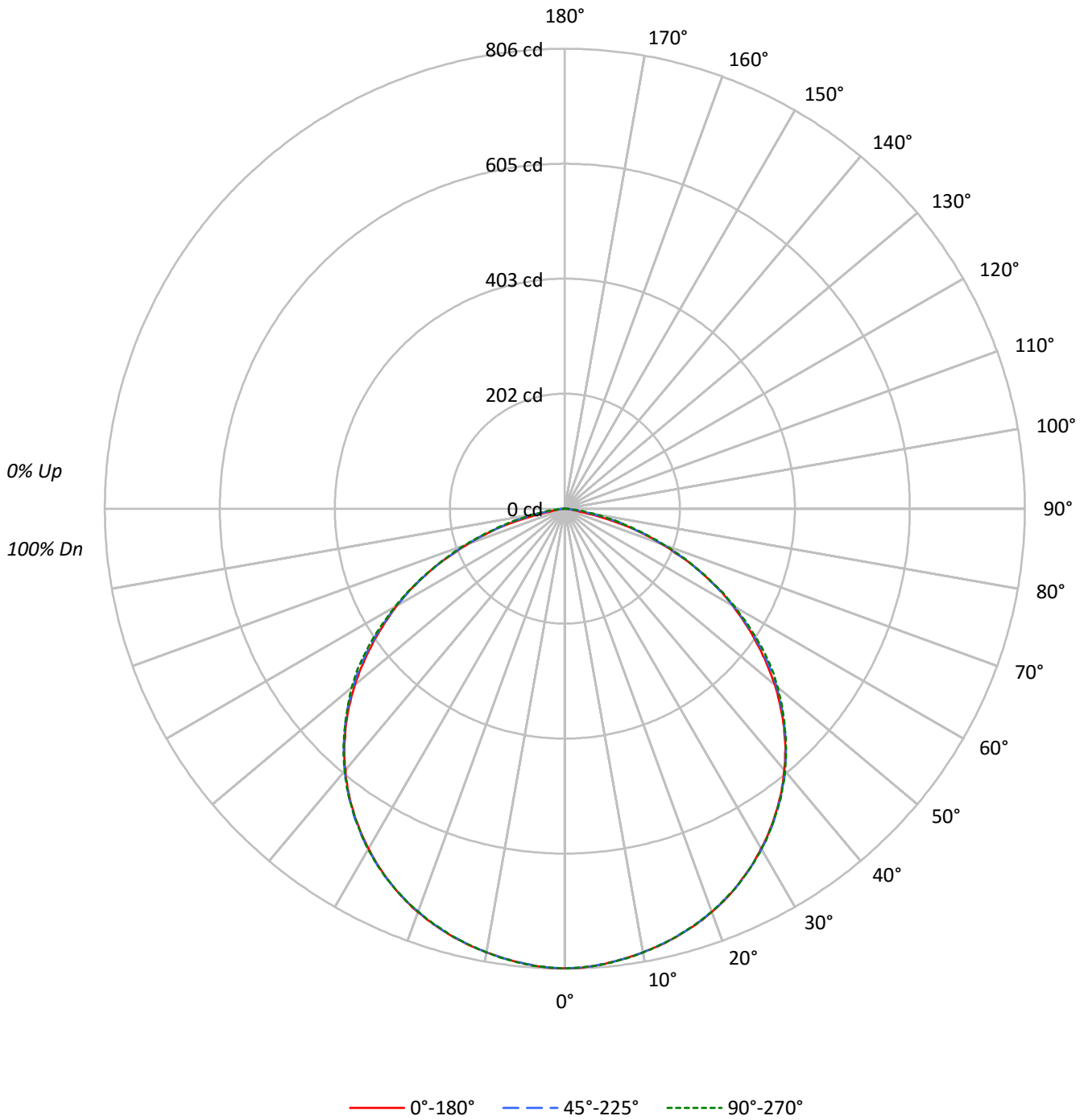
Lumens per Lamp: N/A
Luminaire Lumens: 2206.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

Input Watts (W): 18.8
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	87	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	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°	35037	35037	35037
5°	34966	34961	34974
10°	34875	34871	34880
15°	34854	34830	34836
20°	34818	34798	34781
25°	34724	34740	34738
30°	34561	34608	34621
35°	34329	34401	34382
40°	33955	34063	34080
45°	33415	33528	33531
50°	32468	32728	32975
55°	31138	31483	31805
60°	29561	29587	29891
65°	27048	26986	27172
70°	22828	23159	23502
75°	17041	18024	18587
80°	4759	9168	12525
85°	2695	3219	6139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.4
10°-20°	218.4	9.9
20°-30°	333.6	15.1
30°-40°	405.0	18.4
40°-50°	419.9	19.0
50°-60°	370.2	16.8
60°-70°	259.1	11.7
70°-80°	112.5	5.1
80°-90°	12.0	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°	628.1	28.5
0°-40°	1033.1	46.8
0°-60°	1823.1	82.6
0°-90°	2206.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2206.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	801	800	801	801	801	76
15°	774	774	773	773	774	219
25°	724	724	724	724	724	334
35°	646	647	648	648	648	404
45°	543	544	545	546	545	418
55°	411	412	415	419	419	367
65°	263	262	262	263	264	258
75°	101	105	107	109	111	102
85°	5	6	6	8	12	7
90°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	805.5	805.5	805.5	805.5
1°	805.8	805.2	805.2	805.0
2°	805.0	804.7	804.6	804.6
3°	803.9	803.7	803.8	804.0
4°	802.3	802.2	802.6	802.8
5°	800.8	800.4	801.0	801.0
6°	798.6	798.8	799.1	799.2
7°	796.8	796.6	797.0	797.3
8°	794.6	794.2	794.8	795.0
9°	792.2	792.0	792.3	792.4
10°	789.6	789.3	789.7	789.7
11°	786.9	786.5	786.9	786.8
12°	784.0	783.8	783.8	783.6
13°	780.9	780.4	780.6	780.4
14°	777.6	777.2	776.9	777.2
15°	774.0	773.6	773.3	773.6
16°	770.2	769.8	769.6	769.2
17°	766.2	765.7	765.4	765.4
18°	761.8	761.6	761.3	761.0
19°	757.4	756.9	756.5	756.5
20°	752.2	751.9	751.6	751.4
21°	747.5	747.1	746.6	746.7
22°	741.9	741.5	741.4	741.2
23°	736.2	736.1	735.3	735.5
24°	730.0	730.1	729.8	730.0
25°	723.5	724.0	723.7	723.8
26°	717.0	717.4	717.6	717.4
27°	710.2	710.8	710.7	711.0
28°	703.2	703.8	704.0	704.0
29°	695.7	696.4	696.7	696.5
30°	688.1	688.8	689.3	689.3
31°	680.2	681.2	681.9	681.4
32°	672.1	673.1	673.8	673.2
33°	663.9	664.4	665.7	664.8
34°	655.4	656.2	657.2	656.1
35°	646.5	647.2	648.5	647.5
36°	637.4	638.4	639.1	638.6
37°	628.3	629.0	630.2	629.8
38°	618.6	619.5	620.2	619.9
39°	608.6	609.6	610.8	610.2
40°	598.0	599.5	600.3	600.2
41°	588.2	588.9	590.3	589.8
42°	577.0	578.3	579.4	579.2
43°	566.6	567.2	568.8	568.4
44°	554.4	556.2	557.4	557.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	543.2	544.1	546.0	545.1
46°	531.0	532.3	534.5	534.2
47°	518.6	520.4	522.7	522.3
48°	506.0	507.9	510.4	511.2
49°	493.0	495.2	498.1	498.8
50°	479.8	482.0	485.3	487.3
51°	466.4	468.7	472.6	474.7
52°	452.6	454.6	459.5	462.4
53°	438.6	441.0	446.3	448.2
54°	424.6	426.2	432.2	434.0
55°	410.6	412.0	418.3	419.4
56°	396.4	397.0	403.8	404.2
57°	382.0	382.0	389.6	388.5
58°	367.7	367.1	374.3	374.1
59°	353.8	351.8	359.4	358.1
60°	339.8	336.6	343.6	343.6
61°	324.8	321.6	327.6	327.9
62°	310.5	306.7	312.3	313.2
63°	294.6	291.4	295.8	296.6
64°	278.8	276.6	279.4	280.4
65°	262.8	261.6	262.8	264.0
66°	247.0	247.0	246.1	248.1
67°	230.1	231.4	230.3	232.4
68°	208.6	212.9	212.8	216.4
69°	196.2	199.1	197.8	201.0
70°	179.5	183.2	181.0	184.8
71°	163.7	166.3	166.0	170.0
72°	148.4	150.0	149.9	153.8
73°	133.6	134.0	135.0	139.9
74°	117.8	119.7	120.9	124.6
75°	101.4	106.6	107.9	110.6
76°	78.9	95.2	96.0	96.0
77°	58.4	77.8	84.1	82.4
78°	43.0	56.5	72.2	71.2
79°	27.2	41.1	60.2	60.0
80°	19.0	23.4	49.8	50.0
81°	14.4	16.5	38.2	42.7
82°	11.6	12.6	26.9	31.0
83°	9.4	10.0	15.5	23.6
84°	7.3	7.9	9.7	18.2
85°	5.4	6.0	6.9	12.3
86°	4.0	4.4	5.1	8.4
87°	2.8	3.2	3.7	5.2
88°	1.9	2.2	2.7	2.9
89°	1.2	1.4	1.8	1.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.6	0.9	1.1	0.7

(END OF REPORT)