

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: P295357

Luminaire Tested: **LM-05L-930-120-UNV-S-STD-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295357
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-930-120-UNV-S-STD-2F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 24 INCH FIXTURE.
Light Source: (90) 3000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

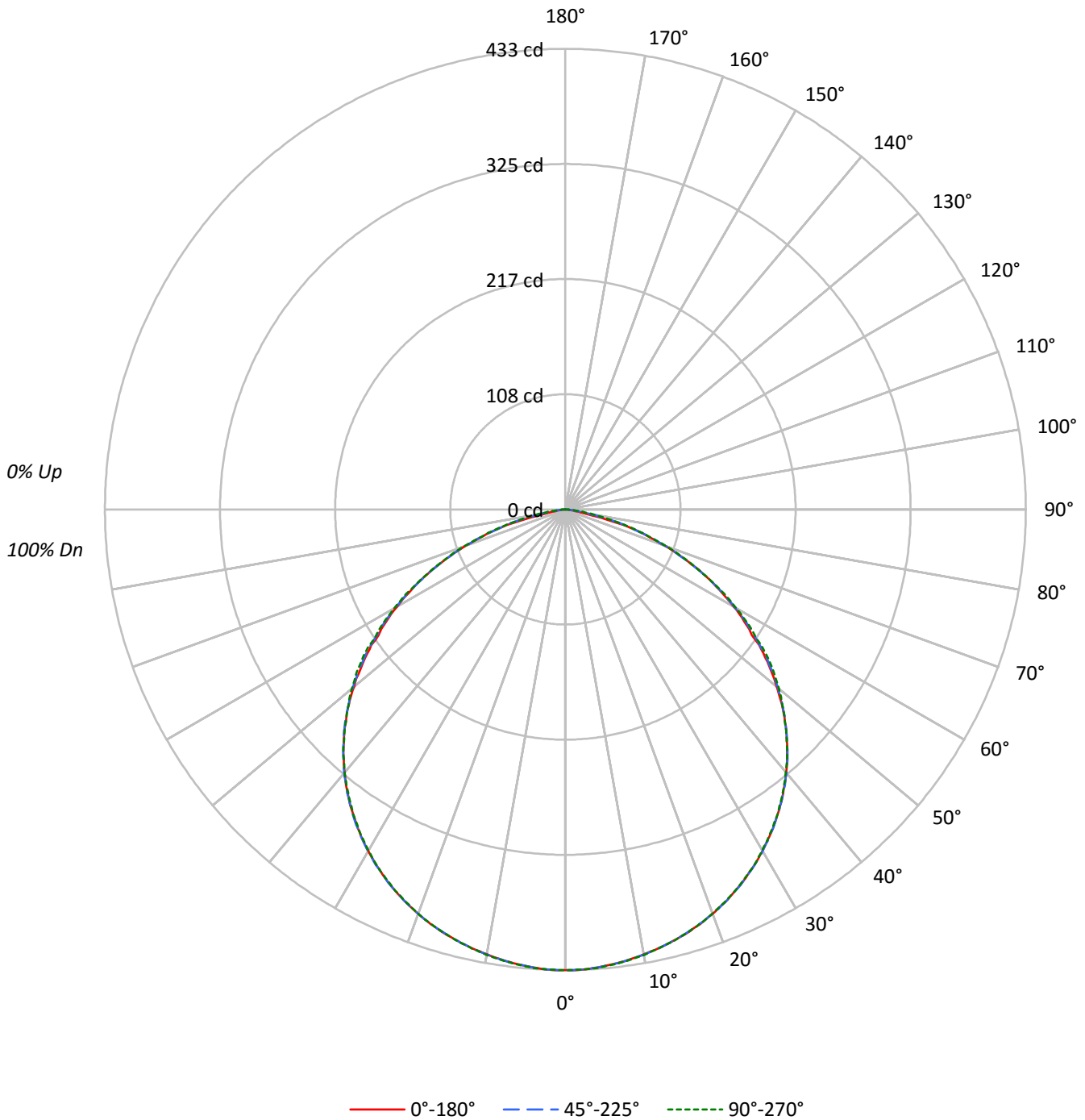
Lumens per Lamp: N/A
Luminaire Lumens: 1189.5 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.04m x L: 0.6m x H: 0m)
CIE Type: Direct

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°	18847	18847	18847
5°	18815	18817	18828
10°	18763	18774	18785
15°	18751	18747	18742
20°	18728	18731	18719
25°	18689	18698	18670
30°	18624	18634	18594
35°	18516	18524	18511
40°	18346	18372	18318
45°	18073	18076	18061
50°	17560	17652	17723
55°	16881	16995	17184
60°	15903	16007	16172
65°	14677	14636	14697
70°	12578	12591	12807
75°	9563	9890	10016
80°	2430	4935	6588
85°	1098	1397	2994



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 CATALOG NUMBER: LM-05L-930-120-UNV-S-STD-2F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	3.4
10°-20°	117.6	9.9
20°-30°	179.5	15.1
30°-40°	218.1	18.3
40°-50°	226.4	19.0
50°-60°	199.7	16.8
60°-70°	140.5	11.8
70°-80°	60.9	5.1
80°-90°	5.8	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°	338.0	28.4
0°-40°	556.1	46.8
0°-60°	982.3	82.6
0°-90°	1189.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	431	431	431	431	431	41
15°	416	416	416	416	416	118
25°	389	390	390	389	389	179
35°	349	349	349	349	349	218
45°	294	294	294	294	294	226
55°	223	223	224	226	227	198
65°	143	142	142	143	143	140
75°	57	59	59	59	60	55
85°	2	2	3	4	6	3
90°	0	0	0	0	0	



TEST NUMBER: P295357

CATALOG NUMBER: LM-05L-930-120-UNV-S-STD-2F

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°
0°	433.3	433.3	433.3	433.3
1°	433.4	433.1	433.2	433.2
2°	433.2	432.9	432.8	433.0
3°	432.6	432.3	432.5	432.7
4°	431.7	431.7	432.0	432.0
5°	430.9	430.8	431.1	431.2
6°	429.8	429.7	430.2	430.2
7°	428.8	428.7	429.1	429.2
8°	427.6	427.4	427.8	428.0
9°	426.4	426.2	426.4	426.6
10°	424.8	424.9	425.2	425.3
11°	423.2	423.4	423.6	423.6
12°	421.8	421.8	421.9	422.0
13°	420.0	420.0	420.2	420.0
14°	418.2	418.2	418.3	418.4
15°	416.4	416.3	416.3	416.2
16°	414.4	414.2	414.1	414.3
17°	412.1	412.1	412.1	412.0
18°	409.8	409.8	409.6	409.7
19°	407.4	407.2	407.3	407.1
20°	404.6	404.7	404.6	404.4
21°	401.8	402.0	401.8	401.6
22°	399.0	399.2	399.0	398.7
23°	396.0	396.1	396.0	395.5
24°	392.7	392.8	392.9	392.6
25°	389.4	389.7	389.5	389.0
26°	386.0	386.2	386.1	385.6
27°	382.2	382.4	382.5	382.1
28°	378.8	378.9	378.8	378.5
29°	374.7	374.9	375.0	374.3
30°	370.8	371.0	371.0	370.2
31°	366.7	366.7	366.8	366.1
32°	362.3	362.5	362.6	361.8
33°	358.0	358.2	358.0	357.4
34°	353.4	353.7	353.6	352.8
35°	348.7	349.0	348.7	348.6
36°	343.8	344.2	343.9	343.1
37°	339.1	339.2	339.0	338.4
38°	333.7	334.3	333.9	333.1
39°	328.6	329.0	328.4	328.1
40°	323.1	323.7	323.4	322.6
41°	317.6	317.9	317.7	317.2
42°	311.8	312.4	312.0	311.8
43°	306.0	306.4	306.2	305.8
44°	299.8	300.2	300.1	299.4



TEST NUMBER: P295357

CATALOG NUMBER: LM-05L-930-120-UNV-S-STD-2F

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
45°	293.8	293.8	293.9	293.6
46°	287.0	287.7	287.8	287.0
47°	280.8	280.9	281.4	281.2
48°	274.0	274.2	274.8	274.4
49°	266.9	267.5	268.1	268.6
50°	259.5	260.4	261.3	261.9
51°	252.8	253.1	254.2	255.3
52°	244.9	245.8	247.5	248.8
53°	237.6	238.3	240.4	241.8
54°	230.0	230.6	233.0	234.4
55°	222.6	222.8	225.4	226.6
56°	211.6	214.6	215.8	216.4
57°	206.4	206.4	210.0	210.0
58°	198.4	198.6	202.1	202.0
59°	191.0	190.2	194.1	193.6
60°	182.8	182.2	185.8	185.9
61°	175.2	174.0	177.5	177.4
62°	167.0	166.1	168.8	169.4
63°	158.8	157.6	160.7	160.4
64°	150.8	149.3	151.7	151.6
65°	142.6	141.4	143.0	142.8
66°	134.0	133.1	134.0	134.6
67°	125.3	125.2	125.2	125.8
68°	116.6	116.9	116.0	117.8
69°	107.7	108.7	107.2	109.1
70°	98.9	99.5	98.5	100.7
71°	90.0	90.9	89.8	91.9
72°	81.4	82.1	81.7	83.6
73°	73.8	73.6	73.6	75.6
74°	65.0	65.9	65.9	67.0
75°	56.9	59.4	58.3	59.6
76°	40.8	52.3	52.4	52.2
77°	27.6	40.1	44.9	44.9
78°	21.3	27.9	38.8	37.9
79°	15.2	19.0	32.5	32.1
80°	9.7	13.0	26.4	26.3
81°	7.0	8.6	20.2	21.2
82°	5.3	6.0	14.0	16.6
83°	4.2	4.6	7.6	12.5
84°	3.2	3.6	4.1	9.2
85°	2.2	2.6	3.0	6.0
86°	1.5	1.8	2.1	3.6
87°	0.9	1.2	1.4	2.0
88°	0.4	0.6	0.8	0.9
89°	0.1	0.2	0.4	0.2



TEST NUMBER: P295357

CATALOG NUMBER: LM-05L-930-120-UNV-S-STD-2F

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°
90°	0.0	0.0	0.2	0.0

(END OF REPORT)