

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: G3-1909-518-1

Luminaire Tested: **LM-05L-927-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G3-1909-518-1  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: iO LED  
Catalog Number: LM-05L-927-120-UNV-S-STD-4F  
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.  
500 LUMENS PER FOOT, 48 INCH FIXTURE.  
Light Source: (180) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

**Summary**

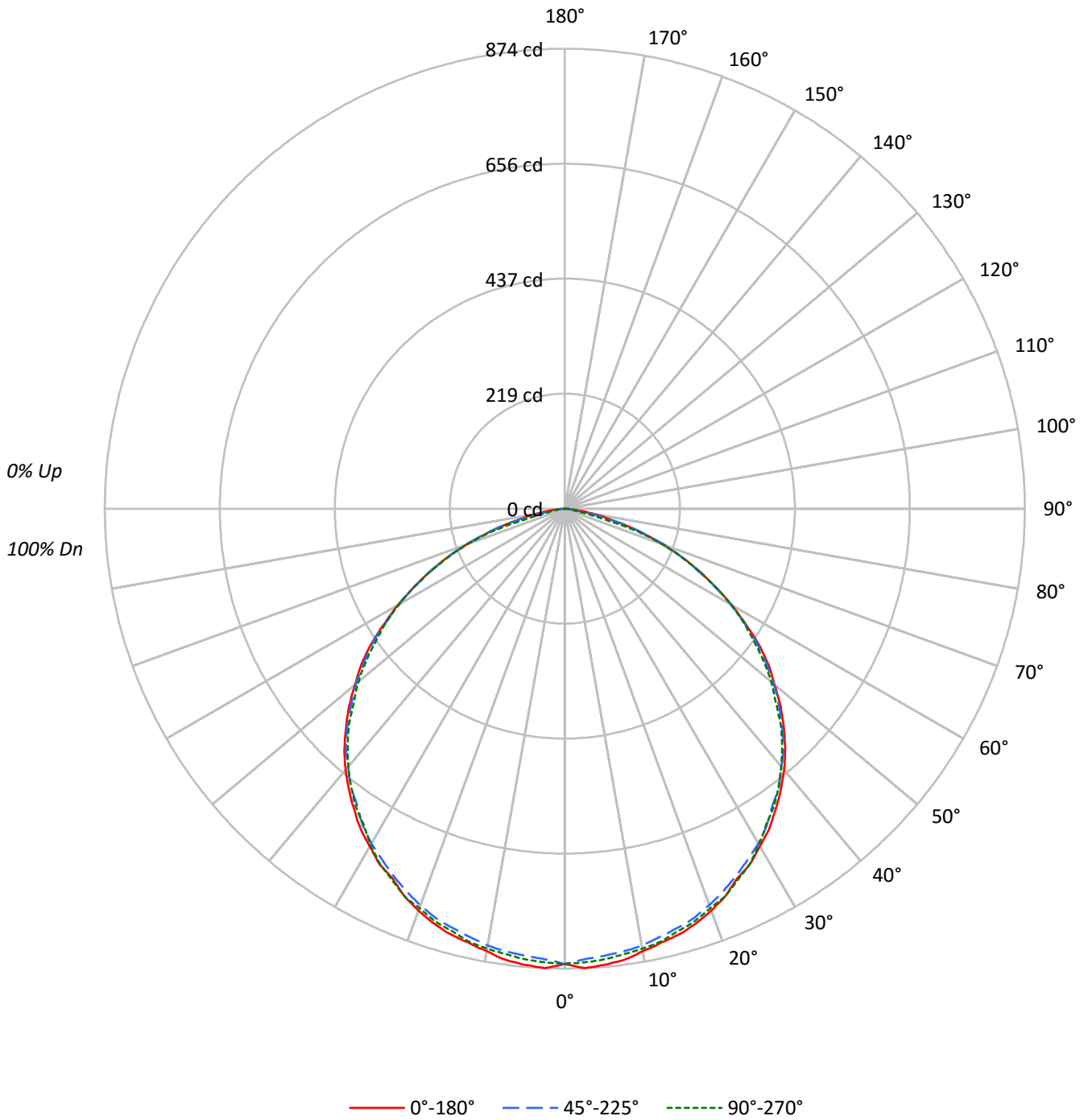
Lumens per Lamp: N/A  
Luminaire Lumens: 2362.3 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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									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	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	93	90	91	89	88	86																												
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																												
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61																												
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																												
5	77	64	56	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	54	47	42	52	46	42	39																												
7	66	53	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	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18622	18622	18622
5°	18801	18433	18585
10°	18668	18428	18559
15°	18677	18387	18521
20°	18625	18373	18511
25°	18409	18290	18480
30°	18420	18271	18345
35°	18344	18081	18186
40°	18210	17986	17986
45°	17902	17780	17658
50°	17416	17349	17148
55°	16890	16740	16439
60°	15758	15672	15672
65°	14467	14263	14314
70°	12400	12589	12400
75°	9565	9649	6155
80°	6199	2727	2356
85°	2717	1482	1482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	3.5
10°-20°	234.7	9.9
20°-30°	358.0	15.2
30°-40°	433.8	18.4
40°-50°	450.3	19.1
50°-60°	397.3	16.8
60°-70°	280.6	11.9
70°-80°	114.5	4.8
80°-90°	11.3	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°	674.5	28.6
0°-40°	1108.3	46.9
0°-60°	1955.9	82.8
0°-90°	2362.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	870	862	853	863	860	83
15°	838	831	825	830	831	236
25°	775	777	770	783	778	359
35°	698	693	688	697	692	437
45°	588	584	584	581	580	453
55°	450	451	446	441	438	400
65°	284	290	280	286	281	279
75°	115	114	116	92	74	125
85°	11	6	6	6	6	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	865	865	865	865	865
2.5°	874	866	857	864	863
5°	870	862	853	863	860
7.5°	865	858	849	855	854
10°	854	851	843	850	849
12.5°	845	844	834	843	843
15°	838	831	825	830	831
17.5°	827	821	816	822	822
20°	813	807	802	808	808
22.5°	797	793	787	802	797
25°	775	777	770	783	778
27.5°	762	761	752	759	761
30°	741	741	735	738	738
32.5°	722	715	714	718	712
35°	698	693	688	697	692
37.5°	674	671	668	673	667
40°	648	641	640	641	640
42.5°	620	620	616	615	611
45°	588	584	584	581	580
47.5°	556	558	551	551	543
50°	520	525	518	517	512
52.5°	488	487	482	478	476
55°	450	451	446	441	438
57.5°	407	414	404	403	403
60°	366	372	364	366	364
62.5°	323	336	322	327	323
65°	284	290	280	286	281
67.5°	241	243	240	242	239
70°	197	196	200	199	197
72.5°	155	153	158	159	146
75°	115	114	116	92	74
77.5°	80	80	71	37	34
80°	50	52	22	19	19
82.5°	27	23	11	11	11
85°	11	6	6	6	6
87.5°	3	3	3	3	3
90°	0	0	0	0	0

(END OF REPORT)