

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: P364398

Luminaire Tested: **LM-05L-930-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-518-1)
Test Lab: INNOVATIONS 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-4F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 48 INCH FIXTURE.
Light Source: (180) 3000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

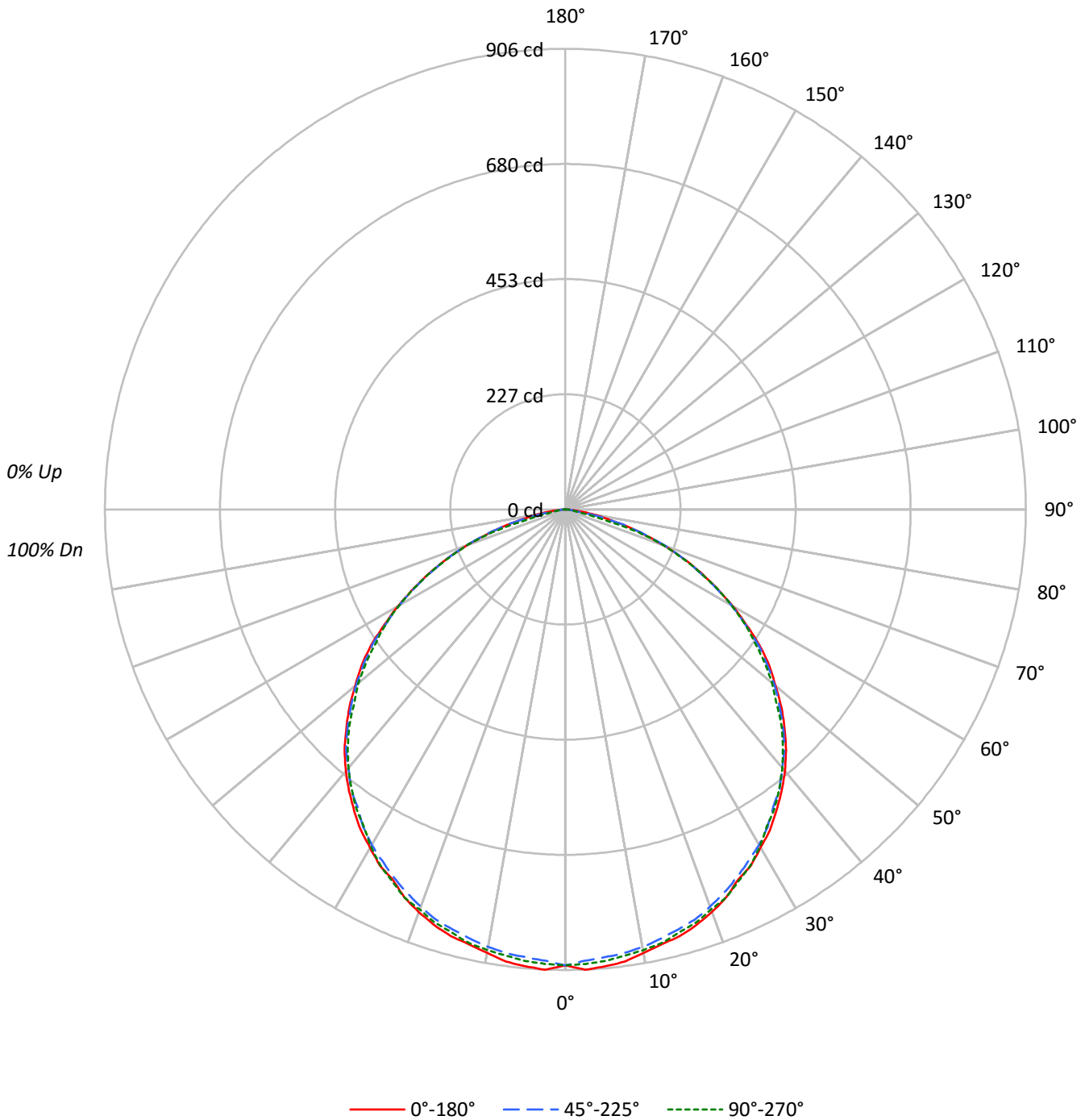
Lumens per Lamp: N/A
Luminaire Lumens: 2449.8 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): 120
Input Current (A_{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	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°	19310	19310	19310
5°	19497	19116	19274
10°	19359	19110	19245
15°	19368	19069	19207
20°	19315	19054	19196
25°	19091	18967	19164
30°	19101	18947	19024
35°	19025	18751	18859
40°	18885	18652	18652
45°	18565	18437	18313
50°	18062	17992	17784
55°	17516	17359	17047
60°	16344	16254	16254
65°	15002	14793	14844
70°	12859	13054	12859
75°	9923	10006	6380
80°	6434	2827	2442
85°	2816	1531	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.5
10°-20°	243.4	9.9
20°-30°	371.3	15.2
30°-40°	449.9	18.4
40°-50°	467.0	19.1
50°-60°	412.0	16.8
60°-70°	291.0	11.9
70°-80°	118.7	4.8
80°-90°	11.7	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°	699.5	28.6
0°-40°	1149.4	46.9
0°-60°	2028.3	82.8
0°-90°	2449.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	902	894	885	895	892	86
15°	869	862	856	861	862	245
25°	804	806	798	812	807	372
35°	724	719	714	723	718	453
45°	610	606	606	602	602	470
55°	467	468	462	457	454	415
65°	294	301	290	297	291	290
75°	119	118	120	95	77	129
85°	11	6	6	6	6	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.0	897.0	897.0	897.0	897.0
2.5°	906.4	898.1	888.7	896.0	895.0
5°	902.2	893.9	884.6	895.0	891.9
7.5°	897.0	889.8	880.4	886.7	885.6
10°	885.6	882.5	874.2	881.5	880.4
12.5°	876.3	875.3	864.9	874.2	874.2
15°	869.0	861.8	855.6	860.7	861.8
17.5°	857.6	851.4	846.2	852.4	852.4
20°	843.1	836.9	831.7	837.9	837.9
22.5°	826.5	822.4	816.1	831.7	826.5
25°	803.7	805.8	798.5	812.0	806.8
27.5°	790.2	789.2	779.9	787.1	789.2
30°	768.4	768.4	762.2	765.3	765.3
32.5°	748.7	741.5	740.4	744.6	738.4
35°	723.9	718.7	713.5	722.8	717.6
37.5°	699.0	695.9	692.7	697.9	691.7
40°	672.0	664.7	663.7	664.7	663.7
42.5°	643.0	643.0	638.8	637.8	633.6
45°	609.8	605.6	605.6	602.5	601.5
47.5°	576.6	578.7	571.4	571.4	563.1
50°	539.3	544.4	537.2	536.1	531.0
52.5°	506.1	505.0	499.9	495.7	493.6
55°	466.7	467.7	462.5	457.3	454.2
57.5°	422.1	429.3	419.0	417.9	417.9
60°	379.6	385.8	377.5	379.6	377.5
62.5°	335.0	348.4	333.9	339.1	335.0
65°	294.5	300.7	290.4	296.6	291.4
67.5°	249.9	252.0	248.9	251.0	247.9
70°	204.3	203.3	207.4	206.4	204.3
72.5°	160.7	158.7	163.9	164.9	151.4
75°	119.3	118.2	120.3	95.4	76.7
77.5°	83.0	83.0	73.6	38.4	35.3
80°	51.9	53.9	22.8	19.7	19.7
82.5°	28.0	23.9	11.4	11.4	11.4
85°	11.4	6.2	6.2	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)