

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: P364399

Luminaire Tested: **LM-05L-935-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364399
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-935-120-UNV-S-STD-4F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 48 INCH FIXTURE.
Light Source: (180) 3500K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

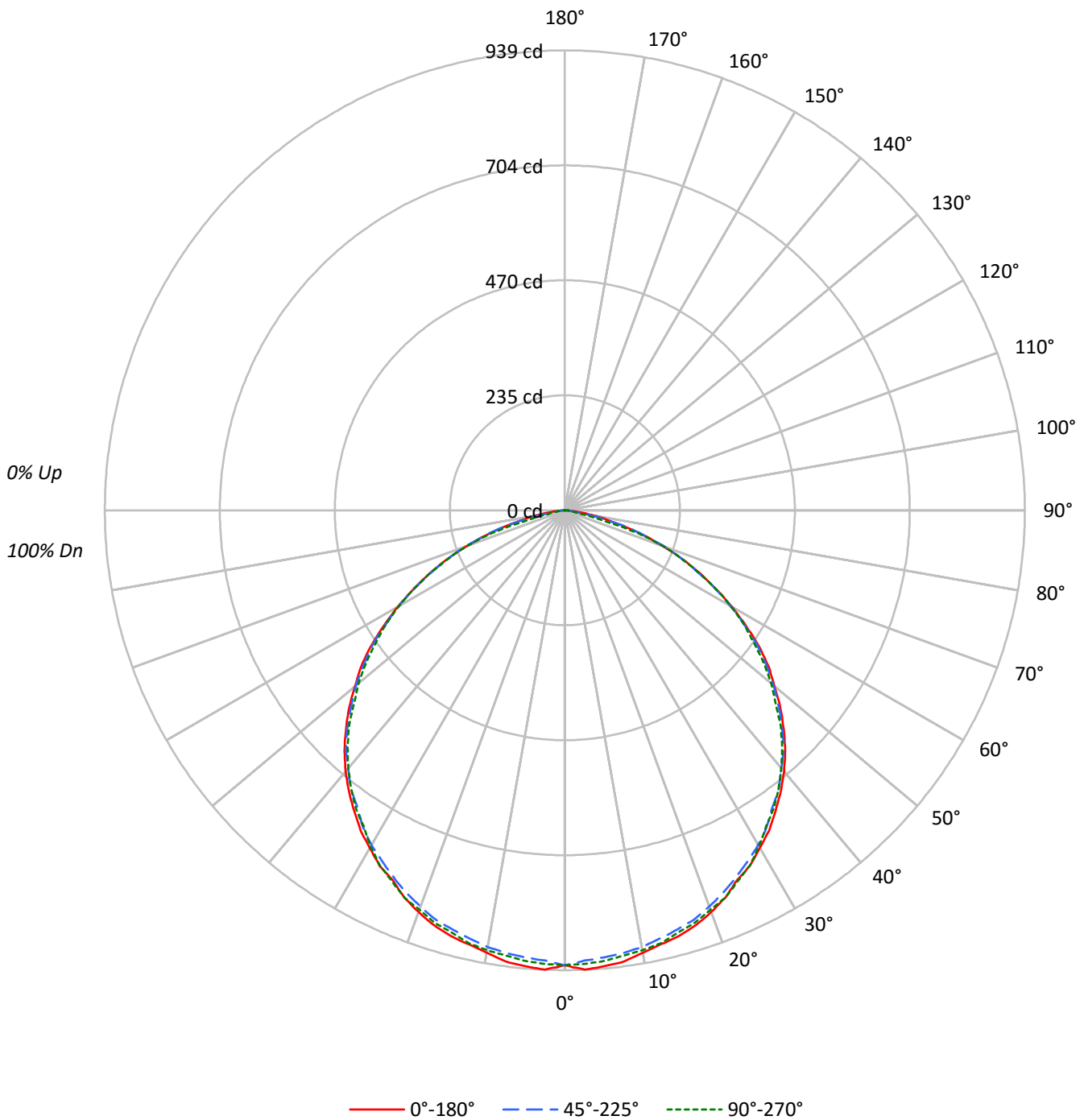
Lumens per Lamp: N/A
Luminaire Lumens: 2537.3 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): 120
Input Current (Ain): 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°	20002	20002	20002
5°	20192	19799	19961
10°	20052	19792	19934
15°	20061	19749	19894
20°	20005	19734	19883
25°	19772	19644	19848
30°	19785	19623	19705
35°	19703	19421	19534
40°	19559	19318	19318
45°	19229	19098	18967
50°	18705	18635	18417
55°	18140	17978	17655
60°	16925	16835	16835
65°	15536	15317	15373
70°	13319	13520	13319
75°	10272	10364	6613
80°	6657	2926	2529
85°	2915	1581	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.5
10°-20°	252.1	9.9
20°-30°	384.6	15.2
30°-40°	466.0	18.4
40°-50°	483.6	19.1
50°-60°	426.7	16.8
60°-70°	301.4	11.9
70°-80°	123.0	4.8
80°-90°	12.1	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°	724.5	28.6
0°-40°	1190.5	46.9
0°-60°	2100.8	82.8
0°-90°	2537.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	934	926	916	927	924	89
15°	900	893	886	892	893	254
25°	832	835	827	841	836	386
35°	750	744	739	749	743	469
45°	632	627	627	624	623	487
55°	483	484	479	474	470	429
65°	305	312	301	307	302	300
75°	124	122	125	99	80	134
85°	12	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°	929.1	929.1	929.1	929.1	929.1
2.5°	938.7	930.1	920.5	928.0	926.9
5°	934.4	925.9	916.2	926.9	923.7
7.5°	929.1	921.6	911.9	918.3	917.3
10°	917.3	914.0	905.4	913.0	911.9
12.5°	907.6	906.5	895.8	905.4	905.4
15°	900.1	892.6	886.1	891.5	892.6
17.5°	888.3	881.8	876.4	882.9	882.9
20°	873.2	866.8	861.4	867.9	867.9
22.5°	856.0	851.7	845.3	861.4	856.0
25°	832.4	834.6	827.0	841.0	835.6
27.5°	818.4	817.4	807.7	815.2	817.4
30°	795.9	795.9	789.4	792.7	792.7
32.5°	775.5	768.0	766.9	771.2	764.7
35°	749.7	744.3	739.0	748.6	743.3
37.5°	723.9	720.7	717.5	722.9	716.4
40°	696.0	688.5	687.4	688.5	687.4
42.5°	665.9	665.9	661.6	660.6	656.3
45°	631.6	627.3	627.3	624.0	623.0
47.5°	597.2	599.3	591.8	591.8	583.2
50°	558.5	563.9	556.4	555.3	549.9
52.5°	524.1	523.1	517.7	513.4	511.3
55°	483.3	484.4	479.0	473.7	470.4
57.5°	437.1	444.7	433.9	432.9	432.9
60°	393.1	399.6	391.0	393.1	391.0
62.5°	346.9	360.9	345.9	351.2	346.9
65°	305.0	311.5	300.7	307.2	301.8
67.5°	258.9	261.0	257.8	259.9	256.7
70°	211.6	210.5	214.8	213.7	211.6
72.5°	166.5	164.3	169.7	170.8	156.8
75°	123.5	122.4	124.6	98.8	79.5
77.5°	85.9	85.9	76.3	39.7	36.5
80°	53.7	55.9	23.6	20.4	20.4
82.5°	29.0	24.7	11.8	11.8	11.8
85°	11.8	6.4	6.4	6.4	6.4
87.5°	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)