

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: P364400

Luminaire Tested: **LM-05L-940-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364400
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-940-120-UNV-S-STD-4F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
500 LUMENS PER FOOT, 48 INCH FIXTURE.
Light Source: (180) 4000K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

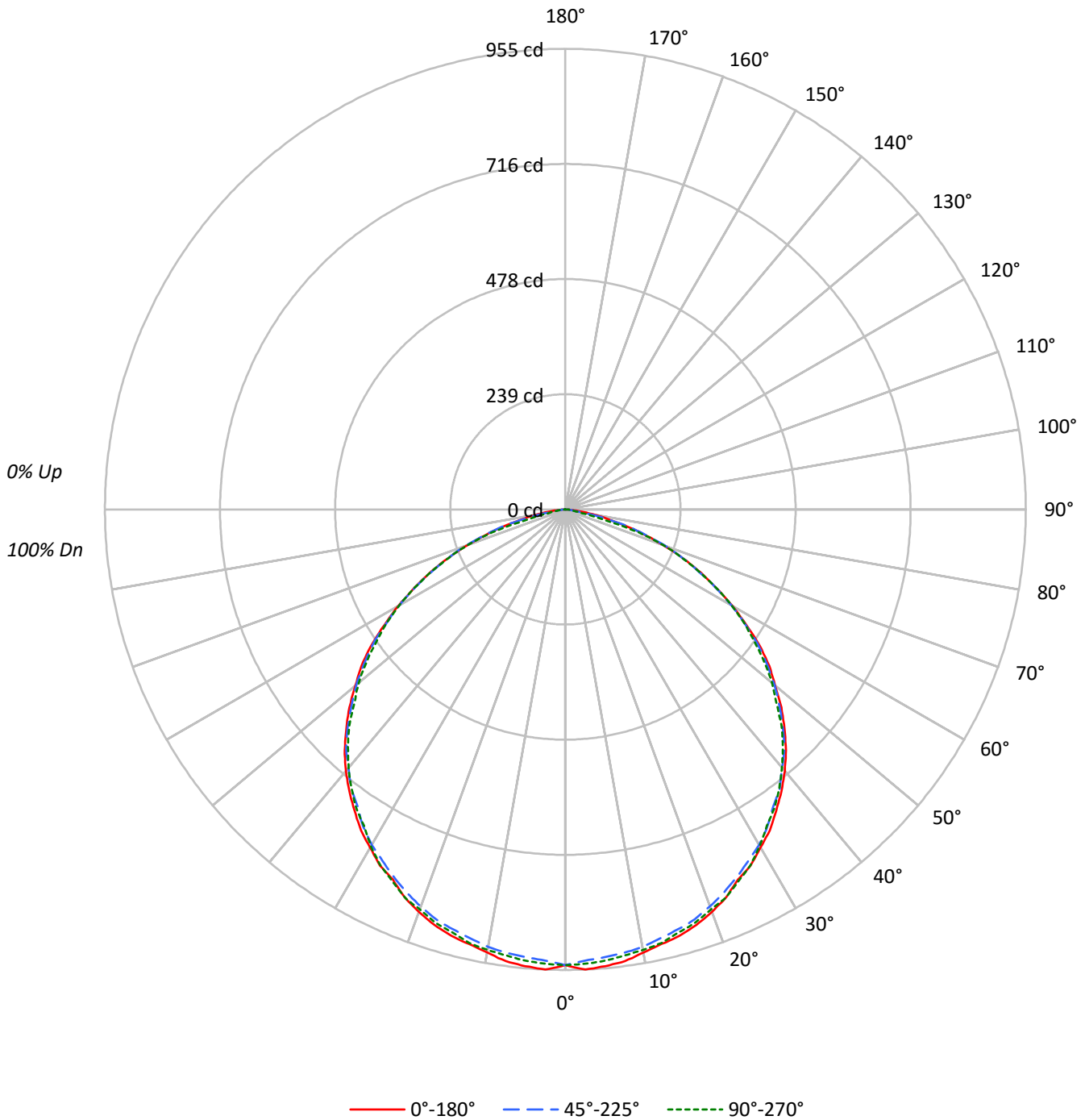
Lumens per Lamp: N/A
Luminaire Lumens: 2581.1 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')
CIE Type: Direct

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°	20346	20346	20346
5°	20543	20141	20305
10°	20398	20135	20277
15°	20406	20090	20235
20°	20350	20076	20224
25°	20114	19984	20190
30°	20125	19964	20043
35°	20042	19755	19871
40°	19897	19652	19652
45°	19558	19427	19293
50°	19026	18956	18735
55°	18455	18290	17963
60°	17218	17123	17123
65°	15806	15582	15638
70°	13545	13753	13545
75°	10447	10539	6729
80°	6769	2975	2579
85°	2964	1630	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.5
10°-20°	256.4	9.9
20°-30°	391.2	15.2
30°-40°	474.0	18.4
40°-50°	492.0	19.1
50°-60°	434.1	16.8
60°-70°	306.6	11.9
70°-80°	125.1	4.8
80°-90°	12.4	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°	737.0	28.6
0°-40°	1211.0	46.9
0°-60°	2137.0	82.8
0°-90°	2581.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	951	942	932	943	940	90
15°	916	908	901	907	908	258
25°	847	849	841	856	850	392
35°	763	757	752	762	756	477
45°	642	638	638	635	634	495
55°	492	493	487	482	479	437
65°	310	317	306	312	307	305
75°	126	125	127	100	81	136
85°	12	7	7	7	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.1	945.1	945.1	945.1	945.1
2.5°	954.9	946.2	936.4	944.0	942.9
5°	950.6	941.8	932.0	942.9	939.6
7.5°	945.1	937.4	927.6	934.2	933.1
10°	933.1	929.8	921.1	928.7	927.6
12.5°	923.2	922.1	911.2	921.1	921.1
15°	915.6	907.9	901.4	906.9	907.9
17.5°	903.6	897.0	891.6	898.1	898.1
20°	888.3	881.7	876.3	882.8	882.8
22.5°	870.8	866.4	859.9	876.3	870.8
25°	846.8	848.9	841.3	855.5	850.0
27.5°	832.6	831.5	821.6	829.3	831.5
30°	809.6	809.6	803.1	806.3	806.3
32.5°	788.9	781.2	780.1	784.5	777.9
35°	762.6	757.2	751.7	761.5	756.1
37.5°	736.4	733.1	729.9	735.3	728.8
40°	708.0	700.4	699.3	700.4	699.3
42.5°	677.4	677.4	673.0	671.9	667.6
45°	642.4	638.1	638.1	634.8	633.7
47.5°	607.5	609.7	602.0	602.0	593.3
50°	568.1	573.6	566.0	564.9	559.4
52.5°	533.2	532.1	526.6	522.3	520.1
55°	491.7	492.8	487.3	481.8	478.6
57.5°	444.7	452.3	441.4	440.3	440.3
60°	399.9	406.4	397.7	399.9	397.7
62.5°	352.9	367.1	351.8	357.3	352.9
65°	310.3	316.9	305.9	312.5	307.0
67.5°	263.3	265.5	262.2	264.4	261.1
70°	215.2	214.1	218.5	217.4	215.2
72.5°	169.4	167.2	172.6	173.7	159.5
75°	125.6	124.6	126.7	100.5	80.9
77.5°	87.4	87.4	77.6	40.4	37.1
80°	54.6	56.8	24.0	20.8	20.8
82.5°	29.5	25.1	12.0	12.0	12.0
85°	12.0	6.6	6.6	6.6	6.6
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)