

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: G3-1909-518-6

Luminaire Tested: **LM-15L-927-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1909-518-6
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-15L-927-120-UNV-S-STD-4F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 48 INCH FIXTURE.
Light Source: (180) 2700K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

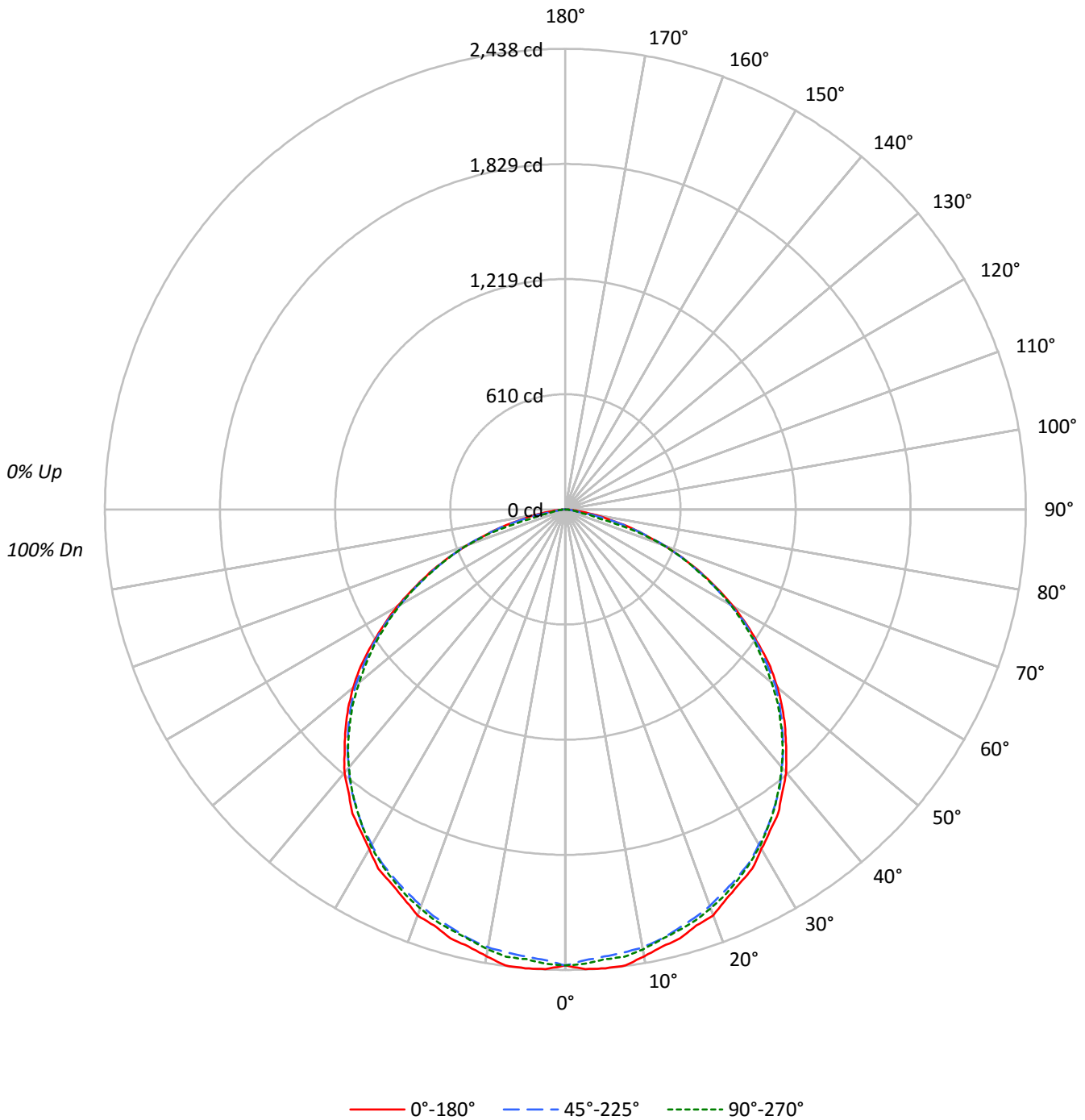
Lumens per Lamp: N/A
Luminaire Lumens: 6576.4 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 56.5
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	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	67	77	70	65	74	69	64	71	67	63	61				
4	84	72	64	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	40				
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35				
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51968	51968	51968
5°	52685	51346	51648
10°	52508	51458	51699
15°	52375	51216	51439
20°	52394	51180	51500
25°	51877	51117	51355
30°	51606	50934	51183
35°	51641	50669	50722
40°	51119	50135	50079
45°	50143	49412	49138
50°	49098	48596	47725
55°	46991	46503	45940
60°	44261	43443	43486
65°	40293	39733	39529
70°	34682	34871	34430
75°	26949	26118	16053
80°	17232	7934	7067
85°	7657	4446	4446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	3.5
10°-20°	654.8	10.0
20°-30°	997.3	15.2
30°-40°	1210.0	18.4
40°-50°	1253.8	19.1
50°-60°	1105.6	16.8
60°-70°	778.4	11.8
70°-80°	316.1	4.8
80°-90°	32.1	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°	1880.4	28.6
0°-40°	3090.4	47.0
0°-60°	5449.8	82.9
0°-90°	6576.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6576.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2414	2414	2414	2414	2414	
5°	2438	2407	2376	2402	2390	232
15°	2350	2327	2298	2320	2308	663
25°	2184	2169	2152	2160	2162	1009
35°	1965	1938	1928	1923	1930	1224
45°	1647	1632	1623	1625	1614	1270
55°	1252	1252	1239	1227	1224	1119
65°	791	805	780	792	776	780
75°	324	314	314	255	193	349
85°	31	17	18	19	18	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2414	2414	2414	2414	2414
2.5°	2436	2417	2388	2421	2408
5°	2438	2407	2376	2402	2390
7.5°	2435	2398	2366	2389	2389
10°	2402	2378	2354	2369	2365
12.5°	2370	2355	2331	2352	2334
15°	2350	2327	2298	2320	2308
17.5°	2310	2291	2269	2286	2284
20°	2287	2259	2234	2253	2248
22.5°	2230	2212	2192	2208	2209
25°	2184	2169	2152	2160	2162
27.5°	2144	2114	2109	2101	2114
30°	2076	2058	2049	2060	2059
32.5°	2017	2006	1995	1992	1996
35°	1965	1938	1928	1923	1930
37.5°	1886	1868	1864	1864	1859
40°	1819	1788	1784	1788	1782
42.5°	1730	1707	1708	1703	1703
45°	1647	1632	1623	1625	1614
47.5°	1559	1550	1539	1528	1526
50°	1466	1458	1451	1431	1425
52.5°	1367	1353	1344	1325	1323
55°	1252	1252	1239	1227	1224
57.5°	1140	1151	1132	1117	1116
60°	1028	1038	1009	1011	1010
62.5°	905	926	894	905	896
65°	791	805	780	792	776
67.5°	671	671	669	664	667
70°	551	542	554	549	547
72.5°	433	421	434	433	411
75°	324	314	314	255	193
77.5°	223	218	202	102	95
80°	139	140	64	57	57
82.5°	73	62	32	33	32
85°	31	17	18	19	18
87.5°	8	8	10	9	9
90°	0	0	0	0	0

(END OF REPORT)