

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: P364405

Luminaire Tested: **LM-15L-935-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-518-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-15L-935-120-UNV-S-STD-4F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1500 LUMENS PER FOOT, 48 INCH FIXTURE.
Light Source: (180) 3500K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

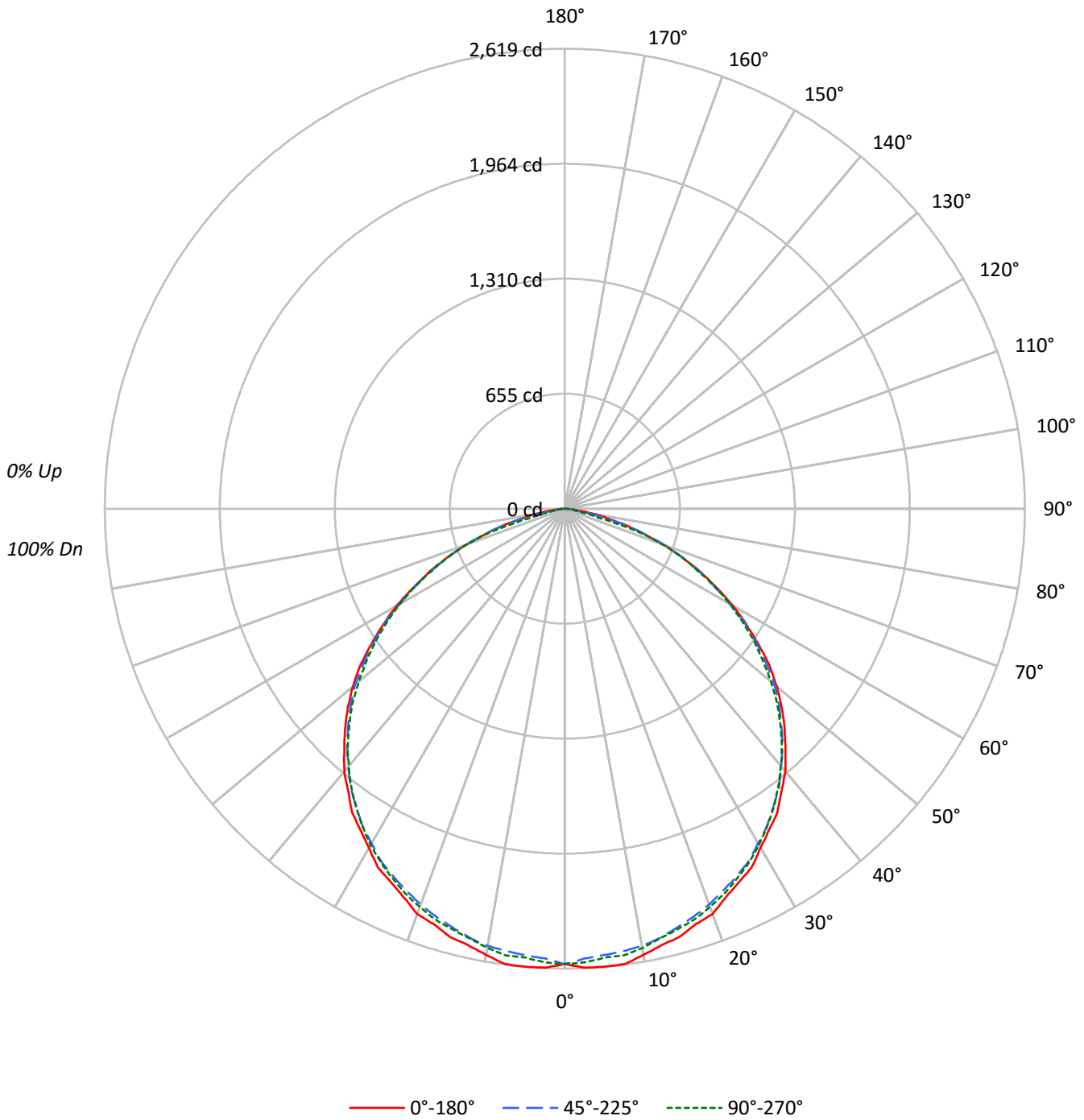
Lumens per Lamp: N/A
Luminaire Lumens: 7063.5 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (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	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°	55817	55817	55817
5°	56588	55149	55473
10°	56396	55271	55529
15°	56255	55009	55250
20°	56275	54971	55315
25°	55721	54903	55158
30°	55429	54708	54974
35°	55468	54422	54480
40°	54904	53847	53788
45°	53857	53072	52779
50°	52735	52196	51262
55°	50470	49948	49344
60°	47538	46659	46707
65°	43278	42677	42458
70°	37250	37451	36979
75°	28946	28056	17243
80°	18509	8517	7587
85°	8225	4767	4767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	3.5
10°-20°	703.3	10.0
20°-30°	1071.1	15.2
30°-40°	1299.7	18.4
40°-50°	1346.6	19.1
50°-60°	1187.5	16.8
60°-70°	836.0	11.8
70°-80°	339.5	4.8
80°-90°	34.5	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°	2019.7	28.6
0°-40°	3319.3	47.0
0°-60°	5853.5	82.9
0°-90°	7063.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7063.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2593	2593	2593	2593	2593	
5°	2619	2585	2552	2580	2567	249
15°	2524	2499	2468	2492	2479	712
25°	2346	2330	2311	2320	2322	1083
35°	2111	2082	2071	2065	2073	1315
45°	1769	1753	1743	1745	1734	1364
55°	1345	1345	1331	1318	1315	1202
65°	850	865	838	851	834	838
75°	348	337	337	274	207	375
85°	33	18	19	20	19	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.8	2592.8	2592.8	2592.8	2592.8
2.5°	2616.4	2596.0	2564.9	2600.3	2586.4
5°	2618.6	2585.3	2552.0	2579.9	2567.0
7.5°	2615.4	2575.6	2541.3	2566.0	2566.0
10°	2579.9	2554.1	2528.4	2544.5	2540.2
12.5°	2545.6	2529.4	2503.7	2526.2	2506.9
15°	2524.1	2499.4	2468.2	2491.9	2479.0
17.5°	2481.1	2460.7	2437.1	2455.3	2453.2
20°	2456.4	2426.3	2399.5	2419.9	2414.5
22.5°	2395.2	2375.9	2354.4	2371.6	2372.6
25°	2345.8	2329.7	2311.4	2320.0	2322.1
27.5°	2302.8	2270.6	2265.2	2256.6	2270.6
30°	2229.8	2210.4	2200.8	2212.6	2211.5
32.5°	2166.4	2154.6	2142.8	2139.6	2143.9
35°	2110.6	2081.6	2070.8	2065.4	2073.0
37.5°	2025.7	2006.4	2002.1	2002.1	1996.7
40°	1953.7	1920.4	1916.1	1920.4	1914.0
42.5°	1858.1	1833.4	1834.5	1829.1	1829.1
45°	1769.0	1752.9	1743.2	1745.4	1733.6
47.5°	1674.5	1664.8	1653.0	1641.2	1639.0
50°	1574.6	1566.0	1558.5	1537.0	1530.6
52.5°	1468.3	1453.2	1443.6	1423.1	1421.0
55°	1344.7	1344.7	1330.8	1317.9	1314.7
57.5°	1224.4	1236.3	1215.9	1199.7	1198.7
60°	1104.1	1114.9	1083.7	1085.9	1084.8
62.5°	972.0	994.6	960.2	972.0	962.4
65°	849.6	864.6	837.8	850.7	833.5
67.5°	720.7	720.7	718.6	713.2	716.4
70°	591.8	582.1	595.0	589.7	587.5
72.5°	465.1	452.2	466.1	465.1	441.4
75°	348.0	337.3	337.3	273.9	207.3
77.5°	239.5	234.1	217.0	109.6	102.0
80°	149.3	150.4	68.7	61.2	61.2
82.5°	78.4	66.6	34.4	35.4	34.4
85°	33.3	18.3	19.3	20.4	19.3
87.5°	8.6	8.6	10.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)