

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: G3-1909-518-5

Luminaire Tested: **LM-10L-927-120-UNV-S-STD-4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1909-518-5
Test Lab: INNOVATION CENTER (G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: LM-10L-927-120-UNV-S-STD-4F
Description: CoviO LED ARCHITECTURAL COVE LUMINAIRE.
1000 LUMENS PER FOOT, 48 INCH FIXTURE.
Light Source: (180) 2700K CCT, 90 CRI LEDS
Ballast/Driver: INTEGRAL ELECTRONIC DRIVER

Summary

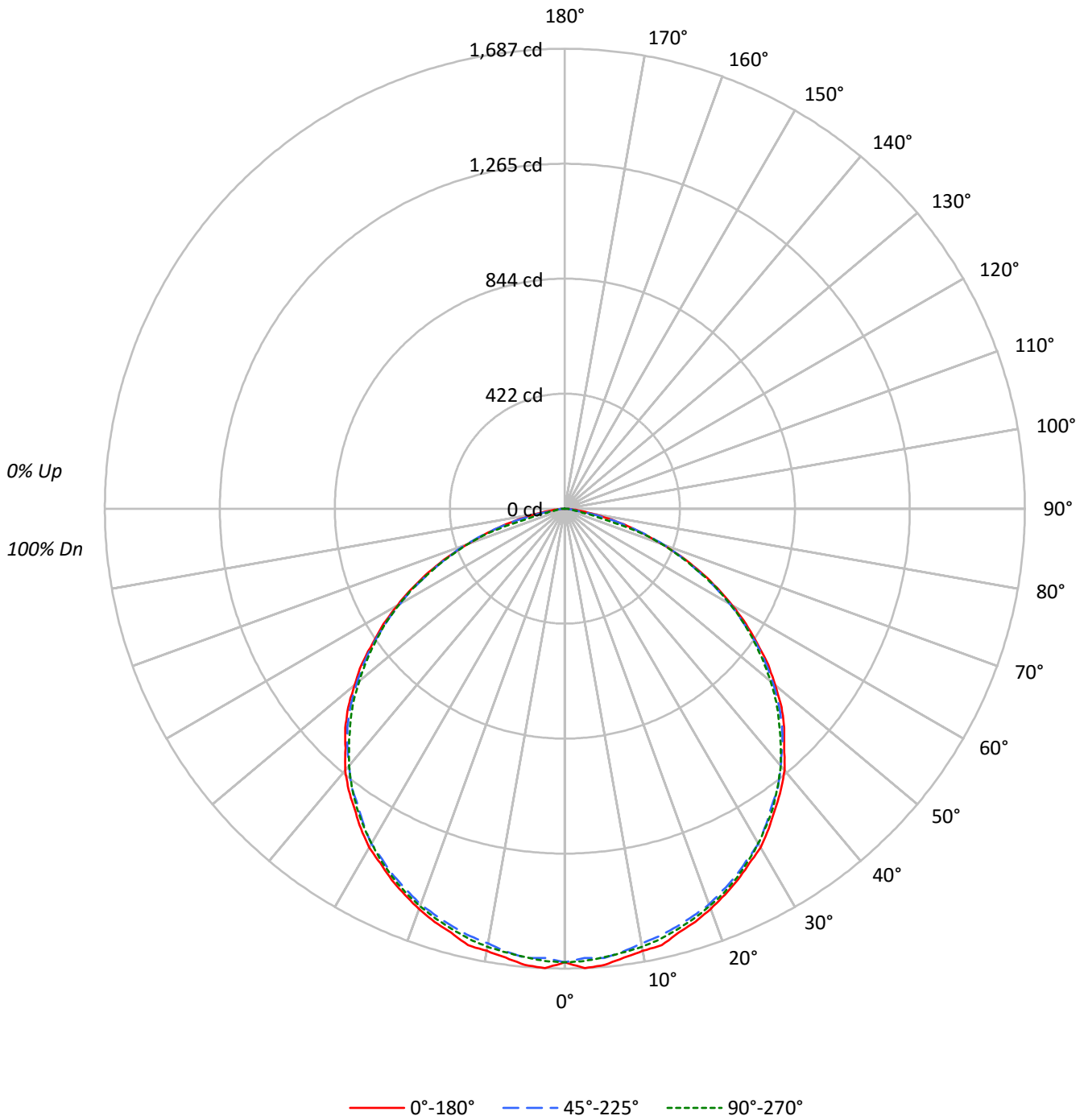
Lumens per Lamp: N/A
Luminaire Lumens: 4537.8 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.12' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	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	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35822	35822	35822
5°	36305	35743	35700
10°	36003	35391	35675
15°	35882	35370	35593
20°	35807	35395	35555
25°	35678	35297	35464
30°	35672	35274	35249
35°	35321	34822	35032
40°	35213	34594	34594
45°	34646	34311	33855
50°	33692	33357	32955
55°	32278	32015	31753
60°	30526	30053	30096
65°	27966	27303	27354
70°	23667	24359	23793
75°	18632	18382	11312
80°	11654	5083	4587
85°	4940	2964	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.5
10°-20°	451.4	9.9
20°-30°	688.2	15.2
30°-40°	834.3	18.4
40°-50°	864.6	19.1
50°-60°	763.2	16.8
60°-70°	537.9	11.9
70°-80°	218.9	4.8
80°-90°	21.8	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°	1297.0	28.6
0°-40°	2131.3	47.0
0°-60°	3759.2	82.8
0°-90°	4537.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4537.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1664	1664	1664	1664	1664	
5°	1680	1660	1654	1659	1652	159
15°	1610	1603	1587	1602	1597	455
25°	1502	1497	1486	1493	1493	693
35°	1344	1335	1325	1334	1333	843
45°	1138	1124	1127	1116	1112	876
55°	860	862	853	848	846	770
65°	549	550	536	543	537	541
75°	224	217	221	176	136	239
85°	20	12	12	12	12	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1664	1664	1664	1664	1664
2.5°	1687	1665	1650	1662	1661
5°	1680	1660	1654	1659	1652
7.5°	1661	1655	1639	1650	1642
10°	1647	1637	1619	1631	1632
12.5°	1640	1616	1606	1620	1617
15°	1610	1603	1587	1602	1597
17.5°	1589	1583	1566	1576	1576
20°	1563	1555	1545	1554	1552
22.5°	1533	1525	1515	1526	1525
25°	1502	1497	1486	1493	1493
27.5°	1466	1463	1450	1456	1457
30°	1435	1425	1419	1419	1418
32.5°	1392	1380	1373	1377	1377
35°	1344	1335	1325	1334	1333
37.5°	1302	1286	1285	1282	1283
40°	1253	1232	1231	1235	1231
42.5°	1191	1178	1180	1178	1171
45°	1138	1124	1127	1116	1112
47.5°	1078	1062	1064	1055	1052
50°	1006	1000	996	990	984
52.5°	940	939	927	923	916
55°	860	862	853	848	846
57.5°	788	793	775	773	777
60°	709	716	698	700	699
62.5°	630	635	619	627	624
65°	549	550	536	543	537
67.5°	466	469	461	464	457
70°	376	374	387	381	378
72.5°	297	294	302	301	284
75°	224	217	221	176	136
77.5°	152	152	138	69	65
80°	94	98	41	38	37
82.5°	51	45	22	22	21
85°	20	12	12	12	12
87.5°	5	5	6	6	6
90°	0	0	0	0	0

(END OF REPORT)