

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P282358

Luminaire Tested: **LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 967.6 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

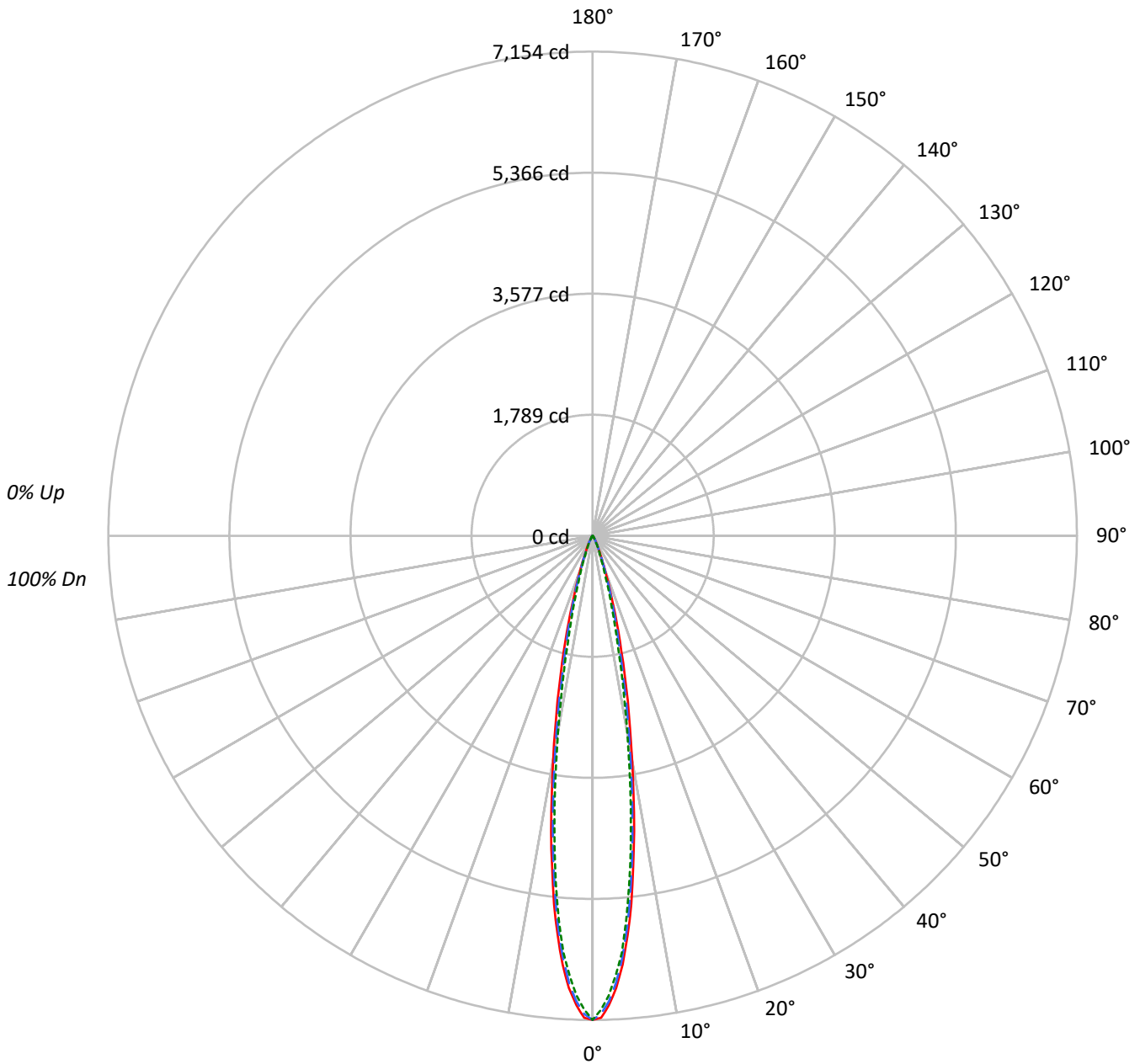
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282358

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P282358

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3529510	3529510	3529510
5°	2936910	2883077	2824885
10°	1682216	1578565	1473260
15°	748221	664506	556888
20°	271438	255214	202187
25°	104246	97332	83778
30°	44948	41815	37087
35°	21261	21261	17587
40°	10691	11013	8888
45°	6140	5791	5372
50°	4221	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282358

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.3	48.1
10°-20°	376.5	38.9
20°-30°	90.8	9.4
30°-40°	23.1	2.4
40°-50°	6.9	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	0.1
80°-90°	0.0	0.0
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°	932.6	96.4
0°-40°	955.8	98.8
0°-60°	965.6	99.8
0°-90°	967.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7154	7154	7154	7154	7154	
5°	5930	5876	5822	5771	5704	480
15°	1465	1430	1301	1172	1090	418
25°	192	193	179	162	154	99
35°	35	36	35	32	29	24
45°	9	9	8	8	8	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282358

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7154.0	7154.0	7154.0	7154.0	7154.0
1°	7122.0	7072.3	7066.2	7097.1	7006.1
2°	6939.9	6904.6	6884.2	6902.4	6799.2
3°	6690.0	6655.7	6618.8	6619.3	6504.0
4°	6349.5	6322.5	6260.1	6241.4	6174.6
5°	5930.2	5875.6	5821.5	5770.7	5704.0
6°	5466.7	5396.1	5318.9	5243.3	5174.8
7°	4921.6	4874.7	4772.6	4669.4	4611.5
8°	4409.0	4333.4	4214.3	4085.1	4036.0
9°	3857.8	3803.8	3666.9	3516.8	3467.7
10°	3357.9	3301.7	3151.0	2983.9	2940.8
11°	2889.0	2836.0	2679.3	2503.8	2458.0
12°	2492.2	2417.2	2237.3	2085.1	2040.4
13°	2097.2	2045.9	1875.4	1724.8	1638.1
14°	1761.2	1718.7	1564.2	1431.8	1340.2
15°	1464.9	1430.1	1301.0	1171.9	1090.3
16°	1201.7	1180.2	1078.1	953.4	886.7
17°	974.9	955.1	890.0	775.2	718.9
18°	787.3	784.6	730.5	631.2	581.0
19°	647.8	646.6	597.0	513.7	472.3
20°	517.0	524.2	486.1	413.3	385.1
21°	421.5	425.4	395.1	339.9	314.5
22°	343.2	345.9	326.1	280.8	267.0
23°	281.4	283.0	266.5	232.8	220.7
24°	231.7	232.8	217.9	194.2	183.7
25°	191.5	192.6	178.8	162.2	153.9
26°	158.9	160.0	147.9	136.3	128.0
27°	131.9	134.1	121.9	114.8	105.9
28°	112.6	113.1	102.1	97.7	89.4
29°	92.1	95.5	86.1	82.2	76.1
30°	78.9	80.6	73.4	70.6	65.1
32.5°	52.4	53.5	50.2	48.0	43.6
35°	35.3	35.9	35.3	32.0	29.2
37.5°	24.3	24.3	24.8	21.0	19.9
40°	16.6	16.6	17.1	14.3	13.8
42.5°	12.1	12.1	11.6	9.9	9.9
45°	8.8	8.8	8.3	7.7	7.7
47.5°	7.2	6.6	6.1	6.1	6.1
50°	5.5	5.5	5.0	4.4	5.0
52.5°	4.4	4.4	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



TEST NUMBER: P282358

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)