

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: P282224

Luminaire Tested: **LDA2B108050D010 EU2B10NFL258050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282224
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: LDA2B108050D010 EU2B10NFL258050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1037.4 lumens
Efficiency: N/A
Efficacy: 103.7 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

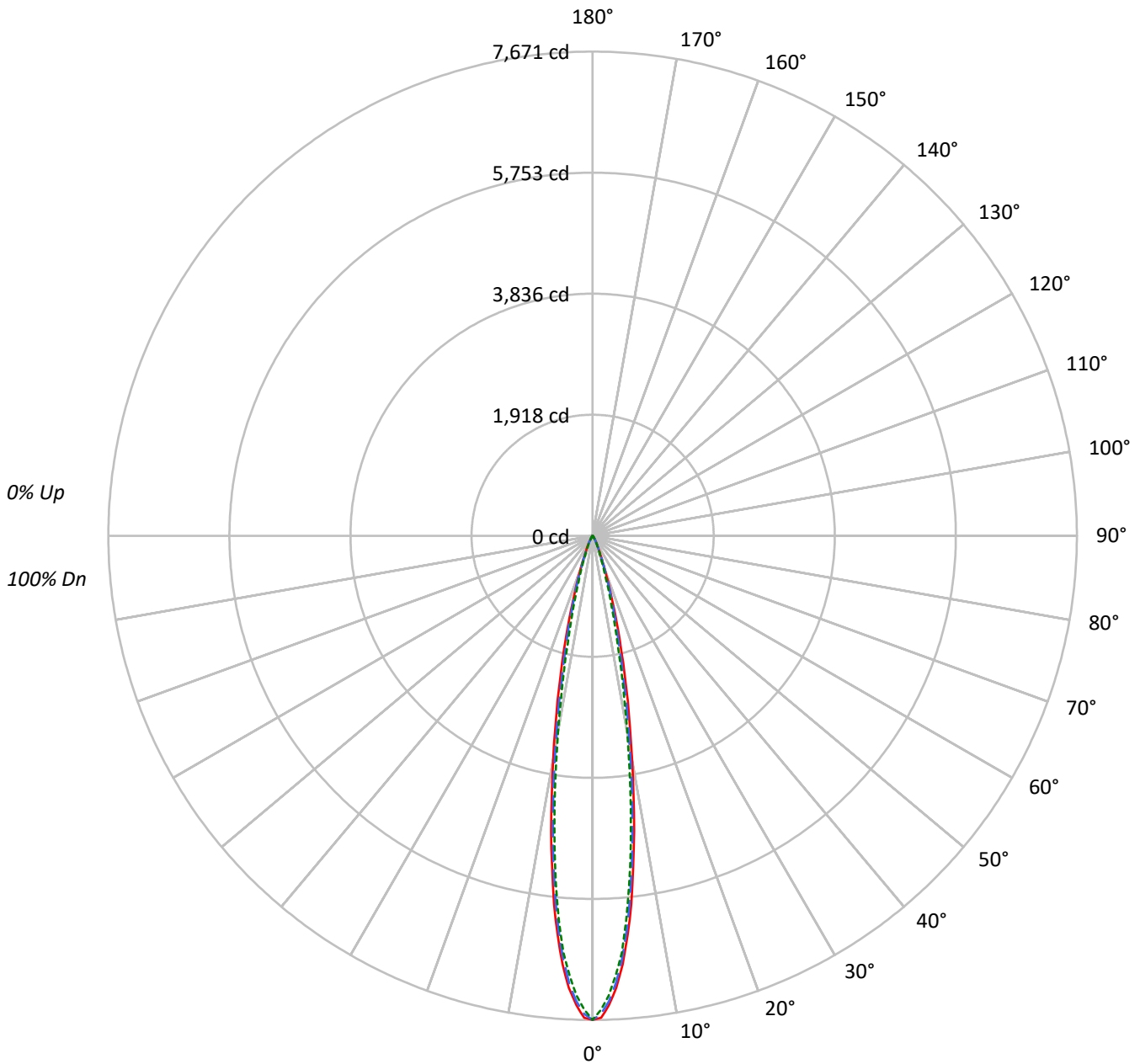
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3784529	3784529	3784529
5°	3149123	3091377	3028976
10°	1803802	1692636	1579717
15°	802260	712518	597085
20°	291021	273643	216783
25°	111758	104355	89875
30°	48195	44834	39764
35°	22827	22827	18912
40°	11399	11786	9532
45°	6628	6210	5791
50°	4528	4068	4068
55°	3527	2580	3011
60°	2960	1776	2368
65°	2101	1401	2101
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.9	48.1
10°-20°	403.7	38.9
20°-30°	97.4	9.4
30°-40°	24.8	2.4
40°-50°	7.4	0.7
50°-60°	3.2	0.3
60°-70°	1.5	0.1
70°-80°	0.5	0.0
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°	1000.0	96.4
0°-40°	1024.8	98.8
0°-60°	1035.4	99.8
0°-90°	1037.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1037.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7671	7671	7671	7671	7671	
5°	6359	6300	6242	6188	6116	514
15°	1571	1534	1395	1257	1169	448
25°	205	206	192	174	165	106
35°	38	38	38	34	31	26
45°	10	10	9	8	8	8
55°	4	4	3	3	4	4
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7670.9	7670.9	7670.9	7670.9	7670.9
1°	7636.6	7583.3	7576.8	7609.9	7512.3
2°	7441.3	7403.5	7381.6	7401.1	7290.5
3°	7173.3	7136.6	7097.0	7097.6	6973.9
4°	6808.3	6779.3	6712.5	6692.3	6620.8
5°	6358.7	6300.1	6242.1	6187.7	6116.1
6°	5861.7	5786.0	5703.2	5622.1	5548.7
7°	5277.2	5226.9	5117.5	5006.8	4944.7
8°	4727.6	4646.5	4518.7	4380.3	4327.7
9°	4136.6	4078.6	3931.9	3770.9	3718.3
10°	3600.6	3540.2	3378.7	3199.4	3153.3
11°	3097.7	3040.9	2872.9	2684.7	2635.6
12°	2672.3	2591.9	2399.0	2235.7	2187.8
13°	2248.7	2193.7	2010.9	1849.4	1756.5
14°	1888.4	1842.9	1677.2	1535.2	1437.0
15°	1570.7	1533.5	1395.0	1256.6	1169.0
16°	1288.5	1265.5	1156.0	1022.3	950.7
17°	1045.4	1024.1	954.3	831.2	770.9
18°	844.2	841.3	783.3	676.8	623.0
19°	694.6	693.4	640.1	550.8	506.4
20°	554.3	562.0	521.2	443.1	412.9
21°	452.0	456.1	423.6	364.4	337.2
22°	368.0	370.9	349.6	301.1	286.3
23°	301.7	303.5	285.7	249.7	236.6
24°	248.5	249.7	233.7	208.2	197.0
25°	205.3	206.5	191.7	173.9	165.1
26°	170.4	171.6	158.6	146.1	137.3
27°	141.4	143.8	130.7	123.1	113.6
28°	120.7	121.3	109.4	104.7	95.8
29°	98.8	102.3	92.3	88.2	81.6
30°	84.6	86.4	78.7	75.7	69.8
32.5°	56.2	57.4	53.8	51.5	46.7
35°	37.9	38.5	37.9	34.3	31.4
37.5°	26.0	26.0	26.6	22.5	21.3
40°	17.7	17.7	18.3	15.4	14.8
42.5°	13.0	13.0	12.4	10.6	10.6
45°	9.5	9.5	8.9	8.3	8.3
47.5°	7.7	7.1	6.5	6.5	6.5
50°	5.9	5.9	5.3	4.7	5.3
52.5°	4.7	4.7	4.1	4.1	4.1
55°	4.1	3.5	3.0	3.0	3.5
57.5°	3.0	3.0	2.4	2.4	3.0
60°	3.0	2.4	1.8	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
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



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







62.5°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)