

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: P283626

Luminaire Tested: **LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 647.6 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

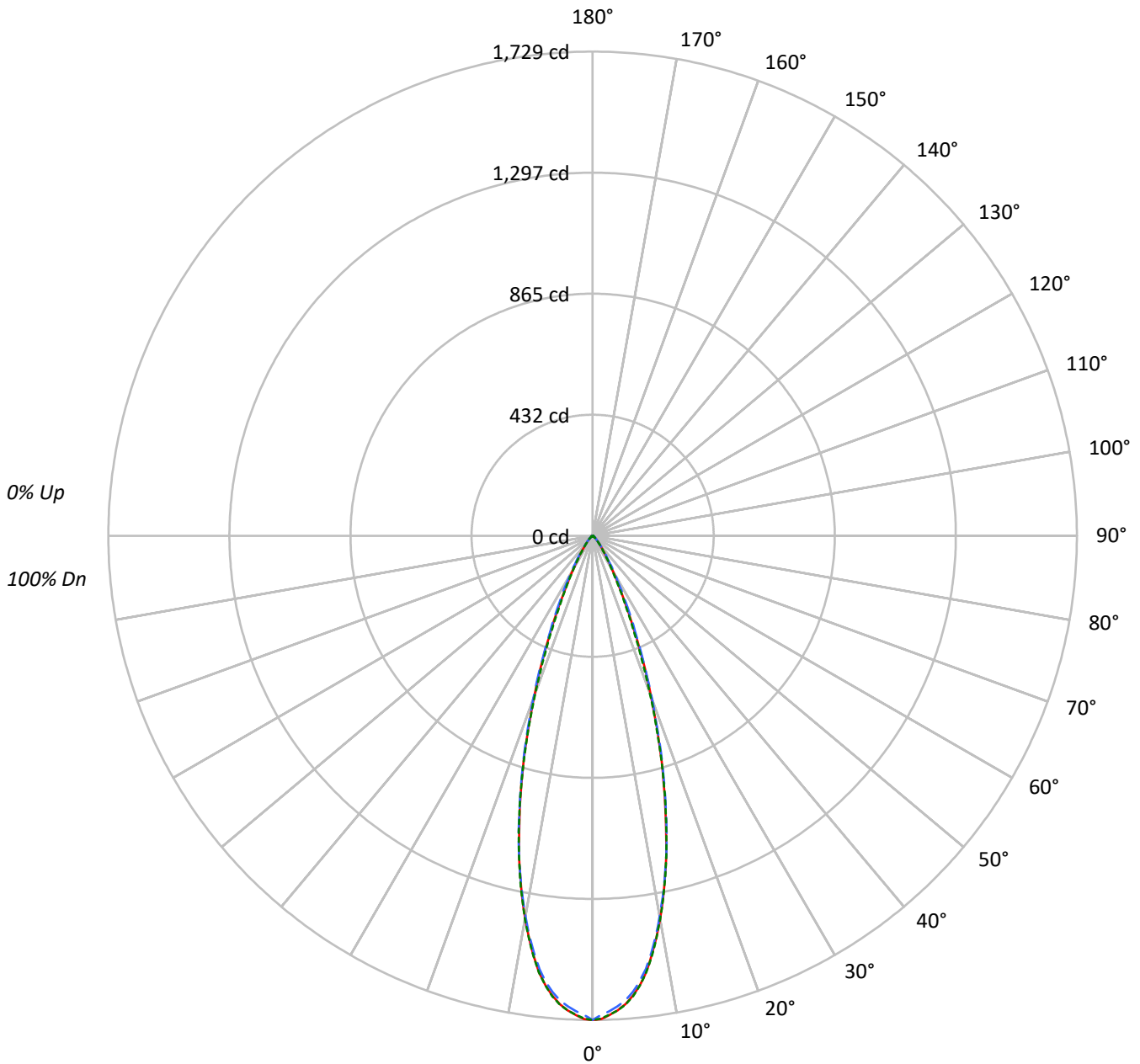
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283626

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P283626

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MB

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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	853171	853171	853171
5°	816463	810372	817751
10°	695601	691242	696352
15°	512707	516027	514392
20°	320055	325988	313020
25°	165323	177408	157049
30°	79243	90865	75540
35°	40895	45292	38305
40°	22928	24087	21768
45°	13954	13954	13466
50°	7215	8903	7215
55°	3785	5935	4043
60°	4342	4342	4342
65°	4670	4670	4670
70°	5770	5193	5770
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



TEST NUMBER: P283626

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	23.0
10°-20°	273.2	42.2
20°-30°	148.1	22.9
30°-40°	47.5	7.3
40°-50°	16.2	2.5
50°-60°	5.7	0.9
60°-70°	4.2	0.6
70°-80°	3.0	0.5
80°-90°	0.9	0.1
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°	570.1	88.0
0°-40°	617.6	95.4
0°-60°	639.5	98.8
0°-90°	647.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1649	1638	1636	1653	1651	149
15°	1004	1012	1010	1015	1007	272
25°	304	318	326	303	288	146
35°	68	71	75	68	64	46
45°	20	20	20	20	19	16
55°	4	5	7	5	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283626

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.3	1729.3	1729.3	1729.3	1729.3
1°	1726.4	1714.0	1712.2	1728.2	1724.6
2°	1712.6	1700.9	1699.1	1715.1	1711.8
3°	1697.3	1686.8	1683.1	1699.9	1697.7
4°	1677.0	1667.2	1663.9	1680.6	1678.8
5°	1648.6	1638.5	1636.3	1652.6	1651.2
6°	1613.8	1605.4	1601.4	1617.8	1614.8
7°	1570.2	1562.5	1558.2	1570.2	1571.6
8°	1513.5	1509.9	1504.8	1516.8	1516.8
9°	1453.2	1449.9	1444.5	1455.4	1455.4
10°	1388.5	1386.3	1379.8	1390.0	1390.0
11°	1317.7	1316.6	1311.9	1320.2	1320.2
12°	1243.2	1245.7	1241.4	1248.6	1246.1
13°	1168.7	1167.6	1168.0	1173.4	1169.4
14°	1084.4	1091.0	1092.1	1095.3	1089.2
15°	1003.8	1012.1	1010.3	1015.0	1007.1
16°	921.3	930.8	930.4	931.5	923.9
17°	844.3	849.7	850.1	849.0	839.6
18°	762.2	769.8	769.8	768.0	756.7
19°	681.9	687.7	691.7	687.7	674.6
20°	609.6	613.6	620.9	610.7	596.2
21°	540.2	543.9	550.0	538.0	522.1
22°	473.7	478.5	484.3	470.5	453.8
23°	411.6	422.5	424.7	405.8	391.6
24°	354.6	366.9	370.6	351.3	336.4
25°	303.7	317.5	325.9	303.4	288.5
26°	259.8	273.2	283.4	260.8	246.7
27°	221.2	235.4	246.0	224.9	211.4
28°	188.2	202.0	212.9	193.3	180.6
29°	163.5	171.5	182.4	166.0	154.4
30°	139.1	147.9	159.5	142.8	132.6
32.5°	95.5	100.3	109.4	99.2	91.2
35°	67.9	70.8	75.2	68.3	63.6
37.5°	48.3	49.8	52.3	48.3	45.8
40°	35.6	36.3	37.4	35.2	33.8
42.5°	26.5	26.9	26.9	26.2	25.4
45°	20.0	20.3	20.0	20.0	19.3
47.5°	14.5	15.6	15.3	15.3	14.2
50°	9.4	11.6	11.6	11.3	9.4
52.5°	5.8	8.0	9.1	8.0	6.2
55°	4.4	5.4	6.9	5.4	4.7
57.5°	4.4	4.4	5.1	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4



TEST NUMBER: P283626

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.6	4.0	4.0
72.5°	3.6	3.6	3.3	3.6	3.3
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	4.4	4.4	4.4	4.4	4.4
65°	4.0	4.4	4.0	4.4	4.0



(END OF REPORT)