

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: P283622

Luminaire Tested: **LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283622
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 712.3 lumens
Efficiency: N/A
Efficacy: 71.2 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

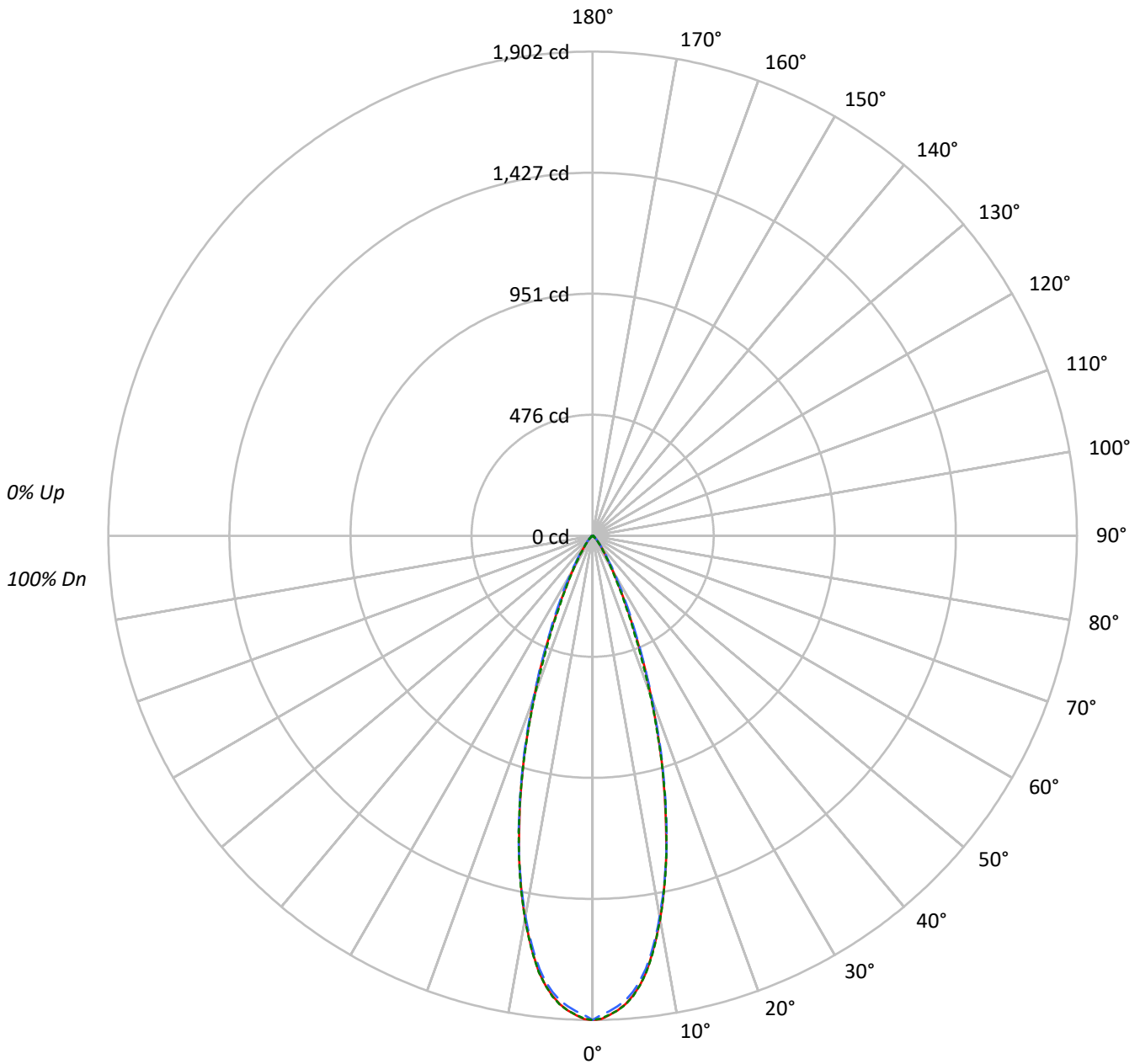
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283622

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283622

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MW

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°	938473	938473	938473
5°	898129	891394	899516
10°	765186	760376	765987
15°	563987	567665	565826
20°	352082	358592	344311
25°	181872	195155	172727
30°	87219	99923	83117
35°	44991	49809	42100
40°	25246	26534	23958
45°	15350	15350	14792
50°	7982	9824	7982
55°	4129	6537	4473
60°	4736	4736	4736
65°	5137	5137	5137
70°	6347	5770	6347
75°	6100	6100	6100
80°	5682	5682	5682
85°	4529	4529	4529



TEST NUMBER: P283622

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	23.0
10°-20°	300.5	42.2
20°-30°	162.9	22.9
30°-40°	52.3	7.3
40°-50°	17.8	2.5
50°-60°	6.3	0.9
60°-70°	4.5	0.6
70°-80°	3.3	0.5
80°-90°	1.0	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
<hr/>		
0°-30°	627.1	88.0
0°-40°	679.4	95.4
0°-60°	703.5	98.8
0°-90°	712.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1814	1802	1800	1818	1816	164
15°	1104	1113	1111	1116	1108	299
25°	334	349	358	334	317	160
35°	75	78	83	75	70	50
45°	22	22	22	22	21	18
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283622

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1902.2	1902.2	1902.2	1902.2	1902.2
1°	1899.0	1885.4	1883.4	1901.0	1897.0
2°	1883.8	1871.0	1869.0	1886.6	1883.0
3°	1867.0	1855.5	1851.5	1869.8	1867.4
4°	1844.7	1833.9	1830.3	1848.7	1846.7
5°	1813.5	1802.3	1799.9	1817.9	1816.3
6°	1775.1	1765.9	1761.5	1779.5	1776.3
7°	1727.2	1718.8	1714.0	1727.2	1728.8
8°	1664.8	1660.8	1655.2	1668.4	1668.4
9°	1598.5	1594.9	1588.9	1600.9	1600.9
10°	1527.4	1525.0	1517.8	1529.0	1529.0
11°	1449.4	1448.2	1443.0	1452.2	1452.2
12°	1367.5	1370.3	1365.5	1373.5	1370.7
13°	1285.6	1284.4	1284.8	1290.8	1286.4
14°	1192.9	1200.1	1201.3	1204.9	1198.1
15°	1104.2	1113.4	1111.4	1116.5	1107.8
16°	1013.4	1023.8	1023.4	1024.6	1016.2
17°	928.7	934.7	935.1	933.9	923.5
18°	838.4	846.8	846.8	844.8	832.4
19°	750.1	756.5	760.9	756.5	742.1
20°	670.6	675.0	683.0	671.8	655.8
21°	594.2	598.2	605.0	591.8	574.3
22°	521.1	526.3	532.7	517.5	499.1
23°	452.8	464.8	467.2	446.4	430.8
24°	390.0	403.6	407.6	386.4	370.1
25°	334.1	349.3	358.5	333.7	317.3
26°	285.7	300.5	311.7	286.9	271.3
27°	243.4	259.0	270.5	247.4	232.6
28°	207.0	222.2	234.2	212.6	198.6
29°	179.8	188.6	200.6	182.6	169.8
30°	153.1	162.6	175.4	157.1	145.9
32.5°	105.1	110.3	120.3	109.1	100.3
35°	74.7	77.9	82.7	75.1	69.9
37.5°	53.2	54.7	57.5	53.2	50.4
40°	39.2	40.0	41.2	38.8	37.2
42.5°	29.2	29.6	29.6	28.8	28.0
45°	22.0	22.4	22.0	22.0	21.2
47.5°	16.0	17.2	16.8	16.8	15.6
50°	10.4	12.8	12.8	12.4	10.4
52.5°	6.4	8.8	10.0	8.8	6.8
55°	4.8	6.0	7.6	6.0	5.2
57.5°	4.8	4.8	5.6	4.8	4.8
60°	4.8	4.8	4.8	4.8	4.8



TEST NUMBER: P283622

CATALOG NUMBER: LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.0	4.4	4.4
72.5°	4.0	4.0	3.6	4.0	3.6
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
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°	4.8	4.8	4.8	4.8	4.8
65°	4.4	4.8	4.4	4.8	4.4



(END OF REPORT)