

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: P283623

Luminaire Tested: **LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283623
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 689.5 lumens
Efficiency: N/A
Efficacy: 69.0 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

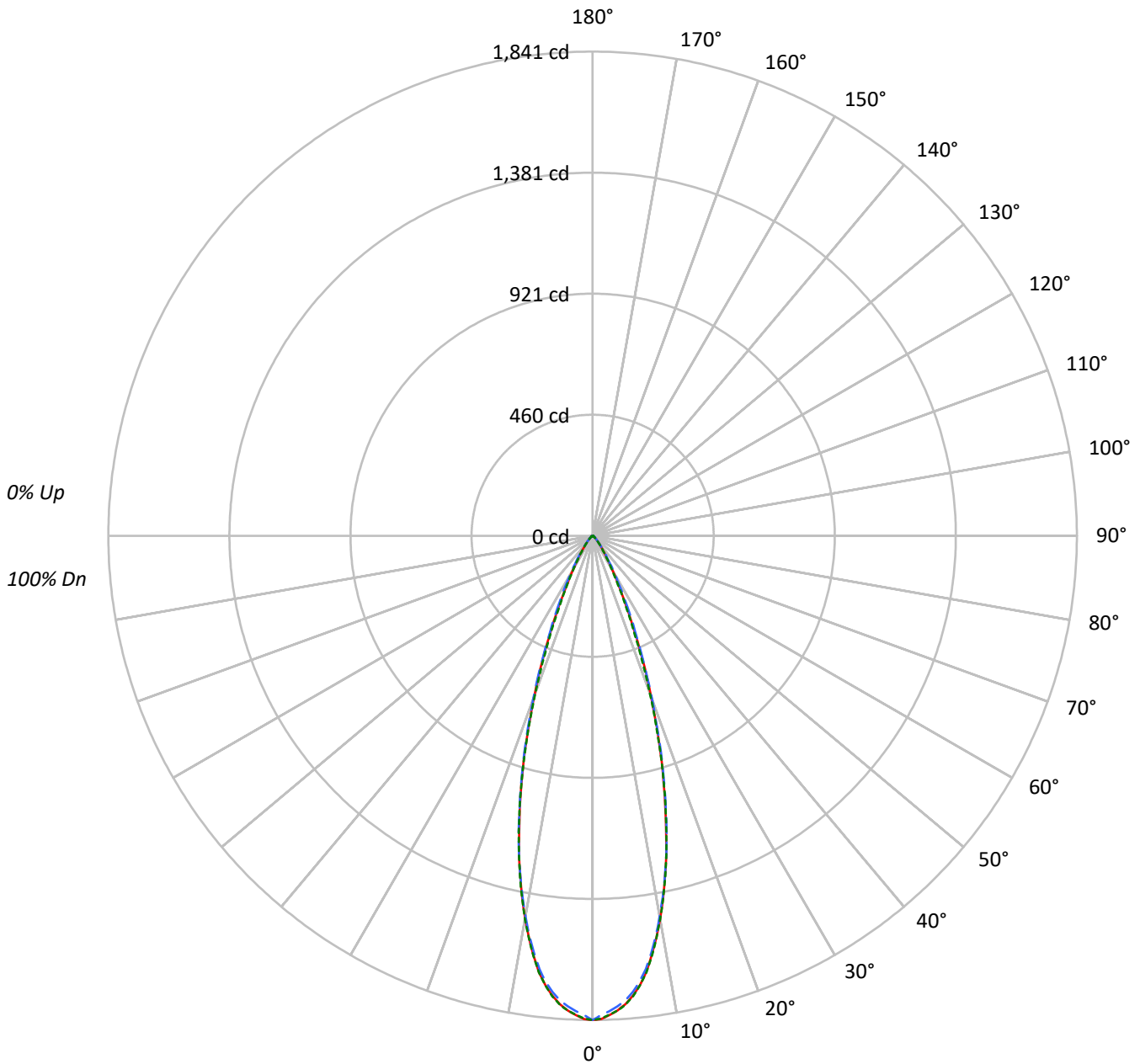
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283623

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Luminous Intensity Polar Plot





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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°	908476	908476	908476
5°	869405	862868	870742
10°	740688	736029	741490
15°	545906	549482	547694
20°	340793	347094	333286
25°	176047	188894	167229
30°	84427	96733	80440
35°	43545	48243	40775
40°	24409	25633	23185
45°	14861	14861	14303
50°	7752	9517	7752
55°	3957	6279	4301
60°	4539	4539	4539
65°	5020	5020	5020
70°	6203	5626	6203
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	23.0
10°-20°	290.9	42.2
20°-30°	157.7	22.9
30°-40°	50.6	7.3
40°-50°	17.3	2.5
50°-60°	6.0	0.9
60°-70°	4.4	0.6
70°-80°	3.2	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°	607.0	88.0
0°-40°	657.7	95.4
0°-60°	681.0	98.8
0°-90°	689.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1756	1745	1742	1760	1758	159
15°	1069	1078	1076	1081	1072	290
25°	323	338	347	323	307	155
35°	72	75	80	73	68	49
45°	21	22	21	21	20	17
55°	5	6	7	6	5	5
65°	4	5	4	5	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.4	1841.4	1841.4	1841.4	1841.4
1°	1838.3	1825.1	1823.2	1840.2	1836.3
2°	1823.6	1811.2	1809.3	1826.3	1822.8
3°	1807.3	1796.1	1792.2	1810.0	1807.7
4°	1785.7	1775.2	1771.7	1789.5	1787.6
5°	1755.5	1744.7	1742.3	1759.7	1758.2
6°	1718.3	1709.5	1705.2	1722.6	1719.5
7°	1671.9	1663.8	1659.2	1671.9	1673.5
8°	1611.6	1607.7	1602.3	1615.1	1615.1
9°	1547.4	1543.9	1538.1	1549.7	1549.7
10°	1478.5	1476.2	1469.2	1480.1	1480.1
11°	1403.1	1401.9	1396.9	1405.8	1405.8
12°	1323.8	1326.5	1321.8	1329.6	1326.9
13°	1244.5	1243.3	1243.7	1249.5	1245.2
14°	1154.7	1161.7	1162.8	1166.3	1159.8
15°	1068.8	1077.7	1075.8	1080.8	1072.3
16°	981.0	991.1	990.7	991.9	983.7
17°	899.0	904.8	905.2	904.0	894.0
18°	811.6	819.7	819.7	817.8	805.8
19°	726.1	732.3	736.5	732.3	718.4
20°	649.1	653.4	661.1	650.3	634.8
21°	575.2	579.1	585.7	572.9	555.9
22°	504.4	509.5	515.7	501.0	483.2
23°	438.3	449.9	452.2	432.1	417.0
24°	377.6	390.7	394.6	374.1	358.2
25°	323.4	338.1	347.0	323.0	307.2
26°	276.6	290.9	301.7	277.8	262.7
27°	235.6	250.7	261.9	239.5	225.1
28°	200.4	215.1	226.7	205.8	192.3
29°	174.1	182.6	194.2	176.8	164.4
30°	148.2	157.4	169.8	152.0	141.2
32.5°	101.7	106.8	116.4	105.6	97.1
35°	72.3	75.4	80.1	72.7	67.7
37.5°	51.4	53.0	55.7	51.4	48.7
40°	37.9	38.7	39.8	37.5	36.0
42.5°	28.2	28.6	28.6	27.9	27.1
45°	21.3	21.7	21.3	21.3	20.5
47.5°	15.5	16.6	16.2	16.2	15.1
50°	10.1	12.4	12.4	12.0	10.1
52.5°	6.2	8.5	9.7	8.5	6.6
55°	4.6	5.8	7.3	5.8	5.0
57.5°	4.6	4.6	5.4	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
72.5°	3.9	3.9	3.5	3.9	3.5
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.2	1.2	1.2	1.5	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



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







62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.3	4.6	4.3	4.6	4.3



(END OF REPORT)