

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: P283539

Luminaire Tested: **LDA2B05D2WD010 EU2B05FL40D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283539  
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: LDA2B05D2WD010 EU2B05FL40D2W 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 507.5 lumens  
Efficiency: N/A  
Efficacy: 72.5 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

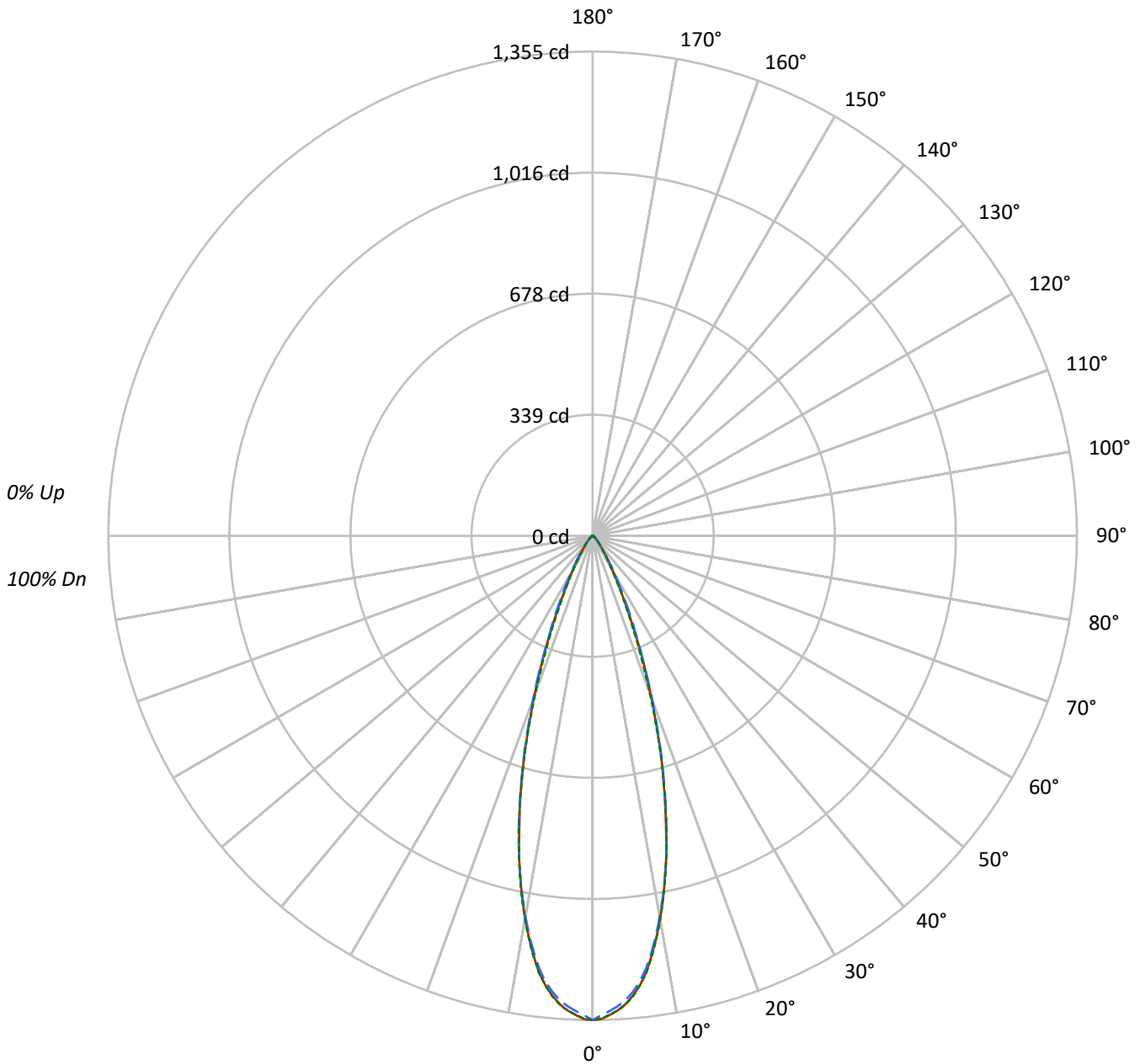
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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°	668703	668703	668703
5°	639957	635153	640948
10°	545209	541802	545760
15°	401819	404475	403147
20°	250857	255477	245344
25°	129559	139031	123081
30°	62153	71211	59190
35°	32041	35475	29994
40°	17969	18870	17067
45°	10954	10954	10536
50°	5680	6985	5680
55°	2925	4645	3183
60°	3355	3355	3355
65°	3619	3619	3619
70°	4472	4039	4472
75°	4384	4384	4384
80°	3978	3978	3978
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	23.0
10°-20°	214.1	42.2
20°-30°	116.1	22.9
30°-40°	37.3	7.3
40°-50°	12.7	2.5
50°-60°	4.4	0.9
60°-70°	3.2	0.6
70°-80°	2.4	0.5
80°-90°	0.7	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°	446.8	88.0
0°-40°	484.1	95.4
0°-60°	501.2	98.8
0°-90°	507.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	507.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1292	1284	1282	1295	1294	117
15°	787	793	792	796	789	213
25°	238	249	255	238	226	114
35°	53	56	59	54	50	36
45°	16	16	16	16	15	12
55°	3	4	5	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	1355.4	1355.4	1355.4	1355.4	1355.4
1°	1353.1	1343.4	1342.0	1354.5	1351.7
2°	1342.3	1333.2	1331.7	1344.3	1341.7
3°	1330.3	1322.1	1319.2	1332.3	1330.6
4°	1314.4	1306.7	1304.1	1317.2	1315.8
5°	1292.2	1284.2	1282.5	1295.3	1294.2
6°	1264.8	1258.3	1255.1	1268.0	1265.7
7°	1230.7	1224.7	1221.3	1230.7	1231.8
8°	1186.2	1183.4	1179.4	1188.8	1188.8
9°	1139.0	1136.4	1132.1	1140.7	1140.7
10°	1088.3	1086.6	1081.5	1089.4	1089.4
11°	1032.8	1031.9	1028.2	1034.8	1034.8
12°	974.4	976.4	973.0	978.7	976.7
13°	916.0	915.2	915.5	919.7	916.6
14°	850.0	855.1	855.9	858.5	853.7
15°	786.7	793.3	791.9	795.6	789.3
16°	722.1	729.5	729.2	730.1	724.1
17°	661.7	666.0	666.3	665.4	658.0
18°	597.4	603.4	603.4	601.9	593.1
19°	534.5	539.0	542.2	539.0	528.8
20°	477.8	480.9	486.6	478.7	467.3
21°	423.4	426.3	431.1	421.7	409.2
22°	371.3	375.0	379.6	368.7	355.6
23°	322.6	331.2	332.9	318.1	307.0
24°	277.9	287.6	290.4	275.3	263.7
25°	238.0	248.9	255.4	237.8	226.1
26°	203.6	214.1	222.1	204.4	193.3
27°	173.4	184.5	192.8	176.3	165.7
28°	147.5	158.3	166.9	151.5	141.5
29°	128.1	134.4	142.9	130.1	121.0
30°	109.1	115.9	125.0	111.9	103.9
32.5°	74.9	78.6	85.7	77.7	71.5
35°	53.2	55.5	58.9	53.5	49.8
37.5°	37.9	39.0	41.0	37.9	35.9
40°	27.9	28.5	29.3	27.6	26.5
42.5°	20.8	21.1	21.1	20.5	19.9
45°	15.7	15.9	15.7	15.7	15.1
47.5°	11.4	12.2	12.0	12.0	11.1
50°	7.4	9.1	9.1	8.8	7.4
52.5°	4.6	6.3	7.1	6.3	4.8
55°	3.4	4.3	5.4	4.3	3.7
57.5°	3.4	3.4	4.0	3.4	3.4
60°	3.4	3.4	3.4	3.4	3.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
72.5°	2.8	2.8	2.6	2.8	2.6
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.9	0.9	0.9	1.1	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.1	3.4	3.1	3.4	3.1



(END OF REPORT)