

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: P283542

Luminaire Tested: **LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283542  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 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: 476.6 lumens  
Efficiency: N/A  
Efficacy: 68.1 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

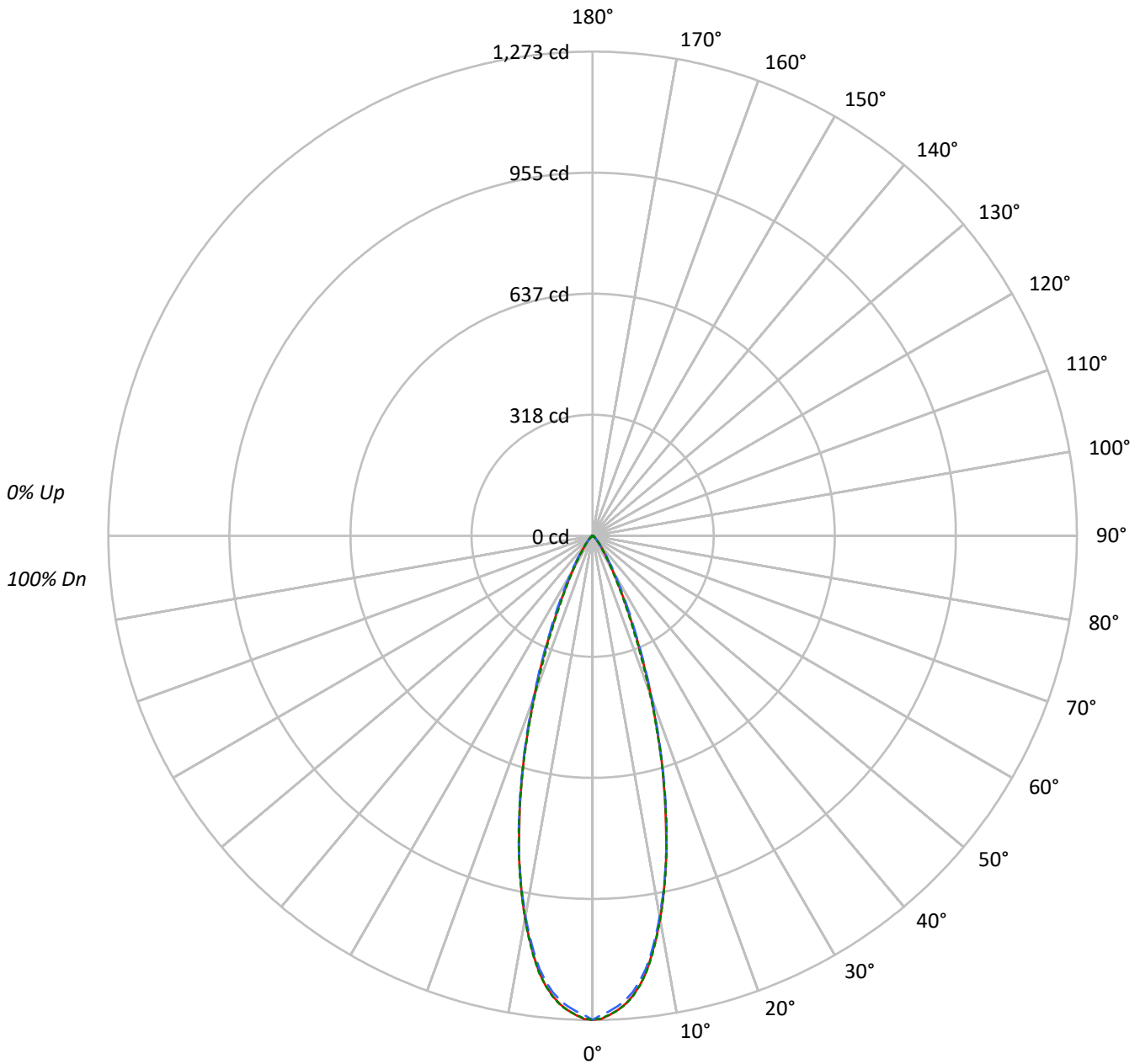
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95						95													
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90						90													
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86						86													
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82						82													
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79						79													
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75						75													
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72						72													
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69						69													
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67						67													
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64						64													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	628000	628000	628000
5°	600981	596475	601922
10°	511994	508788	512545
15°	377405	379856	378631
20°	235579	239936	230381
25°	121720	130593	115569
30°	58336	66881	55601
35°	30114	33367	28187
40°	16874	17711	16037
45°	10256	10256	9908
50°	5373	6601	5373
55°	2752	4387	3011
60°	3158	3158	3158
65°	3385	3385	3385
70°	4183	3895	4183
75°	4003	4003	4003
80°	3694	3694	3694
85°	2830	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.5	23.0
10°-20°	201.1	42.2
20°-30°	109.0	22.9
30°-40°	35.0	7.3
40°-50°	11.9	2.5
50°-60°	4.2	0.9
60°-70°	3.0	0.6
70°-80°	2.2	0.5
80°-90°	0.6	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°	419.6	88.0
0°-40°	454.6	95.4
0°-60°	470.7	98.8
0°-90°	476.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1214	1206	1204	1216	1215	110
15°	739	745	744	747	741	200
25°	224	234	240	223	212	107
35°	50	52	55	50	47	34
45°	15	15	15	15	14	12
55°	3	4	5	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1272.9	1272.9	1272.9	1272.9	1272.9
1°	1270.7	1261.6	1260.3	1272.1	1269.4
2°	1260.6	1252.0	1250.7	1262.4	1260.0
3°	1249.3	1241.6	1238.9	1251.2	1249.6
4°	1234.4	1227.2	1224.7	1237.0	1235.7
5°	1213.5	1206.0	1204.4	1216.5	1215.4
6°	1187.8	1181.7	1178.7	1190.8	1188.6
7°	1155.8	1150.1	1146.9	1155.8	1156.8
8°	1114.0	1111.4	1107.6	1116.4	1116.4
9°	1069.6	1067.2	1063.2	1071.3	1071.3
10°	1022.0	1020.4	1015.6	1023.1	1023.1
11°	969.9	969.1	965.6	971.8	971.8
12°	915.1	917.0	913.7	919.1	917.2
13°	860.3	859.5	859.7	863.7	860.8
14°	798.2	803.0	803.8	806.2	801.7
15°	738.9	745.0	743.7	747.1	741.3
16°	678.2	685.1	684.8	685.6	680.0
17°	621.5	625.5	625.7	624.9	618.0
18°	561.0	566.6	566.6	565.3	557.0
19°	501.9	506.2	509.2	506.2	496.6
20°	448.7	451.7	457.0	449.5	438.8
21°	397.6	400.3	404.9	396.0	384.3
22°	348.7	352.2	356.5	346.3	334.0
23°	303.0	311.0	312.6	298.7	288.3
24°	261.0	270.1	272.8	258.6	247.6
25°	223.6	233.7	239.9	223.3	212.3
26°	191.2	201.1	208.6	192.0	181.6
27°	162.9	173.3	181.0	165.5	155.6
28°	138.5	148.7	156.7	142.3	132.9
29°	120.3	126.2	134.2	122.2	113.6
30°	102.4	108.8	117.4	105.1	97.6
32.5°	70.3	73.8	80.5	73.0	67.1
35°	50.0	52.1	55.4	50.3	46.8
37.5°	35.6	36.6	38.5	35.6	33.7
40°	26.2	26.7	27.5	25.9	24.9
42.5°	19.5	19.8	19.8	19.3	18.7
45°	14.7	15.0	14.7	14.7	14.2
47.5°	10.7	11.5	11.2	11.2	10.4
50°	7.0	8.6	8.6	8.3	7.0
52.5°	4.3	5.9	6.7	5.9	4.5
55°	3.2	4.0	5.1	4.0	3.5
57.5°	3.2	3.2	3.7	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.7	2.9	2.9
72.5°	2.7	2.7	2.4	2.7	2.4
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.3	1.3	1.3	1.3
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.5	0.5	0.5	0.5	0.5
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°	3.2	3.2	3.2	3.2	3.2
65°	2.9	3.2	2.9	3.2	2.9



(END OF REPORT)