

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: P282660

Luminaire Tested: **LDA2B05D2WD010 EU2B05NFL25D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05D2WD010 EU2B05NFL25D2W 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 496.7 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

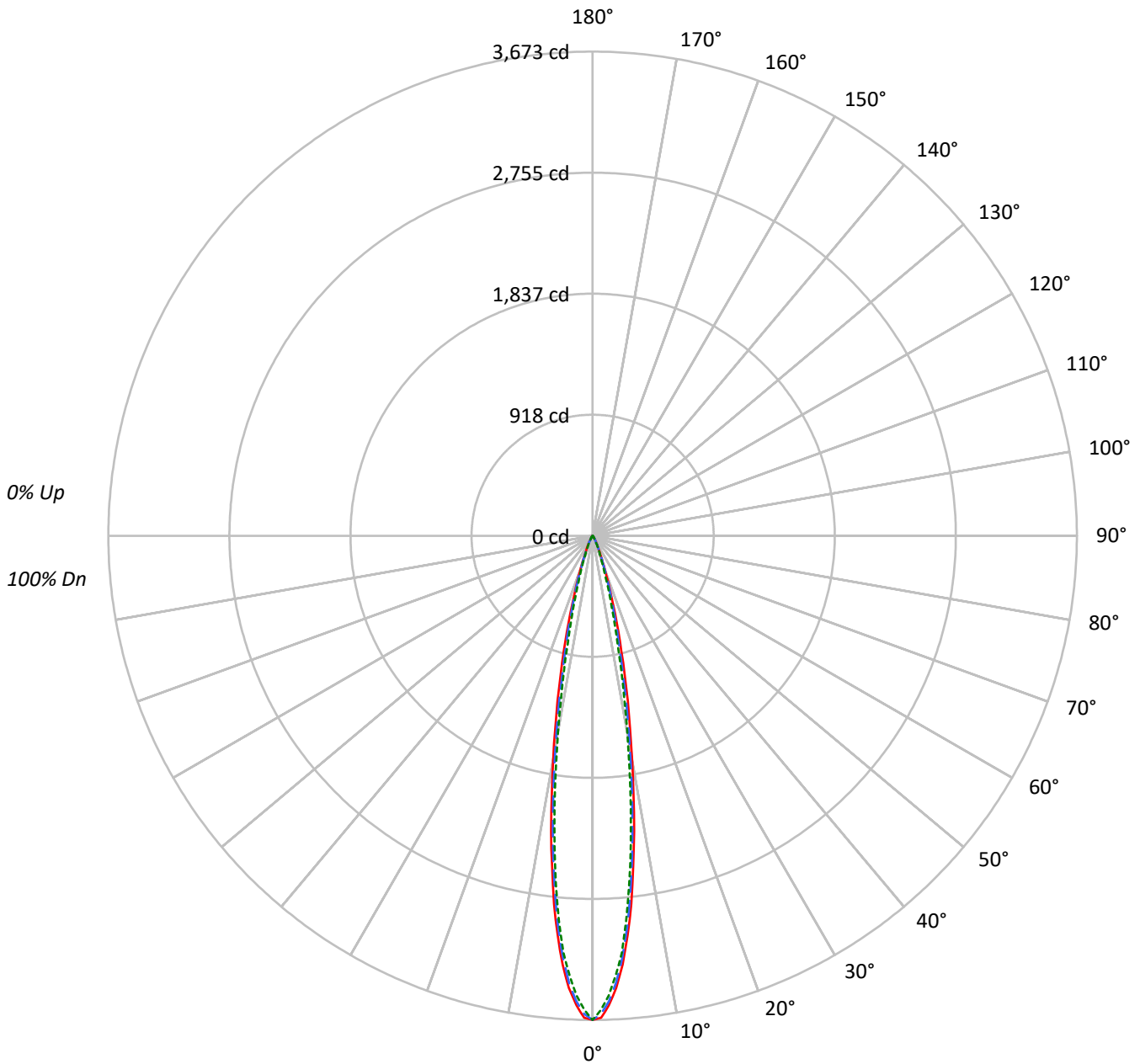
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

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

	0°	45°	90°
0°	1812217	1812217	1812217
5°	1507926	1480291	1450428
10°	863727	810524	756469
15°	384147	341191	285927
20°	139342	131046	103797
25°	53511	49973	43005
30°	23072	21477	19027
35°	10901	10901	9034
40°	5474	5668	4573
45°	3140	2930	2791
50°	2149	1919	1919
55°	1720	1204	1462
60°	1381	789	1085
65°	934	700	934
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.9	48.1
10°-20°	193.3	38.9
20°-30°	46.6	9.4
30°-40°	11.9	2.4
40°-50°	3.5	0.7
50°-60°	1.5	0.3
60°-70°	0.7	0.1
70°-80°	0.3	0.1
80°-90°	0.0	0.0
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°	478.9	96.4
0°-40°	490.7	98.8
0°-60°	495.8	99.8
0°-90°	496.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	496.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3673	3673	3673	3673	3673	
5°	3045	3017	2989	2963	2929	246
15°	752	734	668	602	560	214
25°	98	99	92	83	79	51
35°	18	18	18	16	15	13
45°	4	4	4	4	4	4
55°	2	2	1	1	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3673.2	3673.2	3673.2	3673.2	3673.2
1°	3656.7	3631.3	3628.1	3644.0	3597.3
2°	3563.3	3545.1	3534.6	3544.0	3491.0
3°	3434.9	3417.4	3398.4	3398.7	3339.5
4°	3260.1	3246.3	3214.2	3204.6	3170.3
5°	3044.8	3016.8	2989.0	2963.0	2928.7
6°	2806.9	2770.6	2730.9	2692.1	2657.0
7°	2527.0	2502.9	2450.5	2397.5	2367.8
8°	2263.8	2225.0	2163.8	2097.5	2072.3
9°	1980.8	1953.0	1882.8	1805.7	1780.5
10°	1724.1	1695.2	1617.9	1532.0	1510.0
11°	1483.3	1456.1	1375.7	1285.6	1262.1
12°	1279.6	1241.1	1148.8	1070.6	1047.6
13°	1076.8	1050.5	962.9	885.6	841.1
14°	904.3	882.5	803.1	735.1	688.1
15°	752.1	734.3	668.0	601.7	559.8
16°	617.0	606.0	553.6	489.5	455.3
17°	500.6	490.4	457.0	398.0	369.1
18°	404.3	402.8	375.1	324.1	298.3
19°	332.6	332.0	306.5	263.7	242.5
20°	265.4	269.1	249.6	212.2	197.7
21°	216.4	218.4	202.8	174.5	161.5
22°	176.2	177.6	167.4	144.2	137.1
23°	144.5	145.3	136.8	119.5	113.3
24°	119.0	119.5	111.9	99.7	94.3
25°	98.3	98.9	91.8	83.3	79.0
26°	81.6	82.2	75.9	70.0	65.7
27°	67.7	68.8	62.6	58.9	54.4
28°	57.8	58.1	52.4	50.1	45.9
29°	47.3	49.0	44.2	42.2	39.1
30°	40.5	41.4	37.7	36.3	33.4
32.5°	26.9	27.5	25.8	24.6	22.4
35°	18.1	18.4	18.1	16.4	15.0
37.5°	12.5	12.5	12.7	10.8	10.2
40°	8.5	8.5	8.8	7.4	7.1
42.5°	6.2	6.2	5.9	5.1	5.1
45°	4.5	4.5	4.2	4.0	4.0
47.5°	3.7	3.4	3.1	3.1	3.1
50°	2.8	2.8	2.5	2.3	2.5
52.5°	2.3	2.3	2.0	2.0	2.0
55°	2.0	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.1	1.1	1.4
60°	1.4	1.1	0.8	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	0.8	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







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







62.5°	1.1	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.6	0.6	0.8



(END OF REPORT)