

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: P282703

Luminaire Tested: **LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282703  
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: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 686.2 lumens  
Efficiency: N/A  
Efficacy: 68.6 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

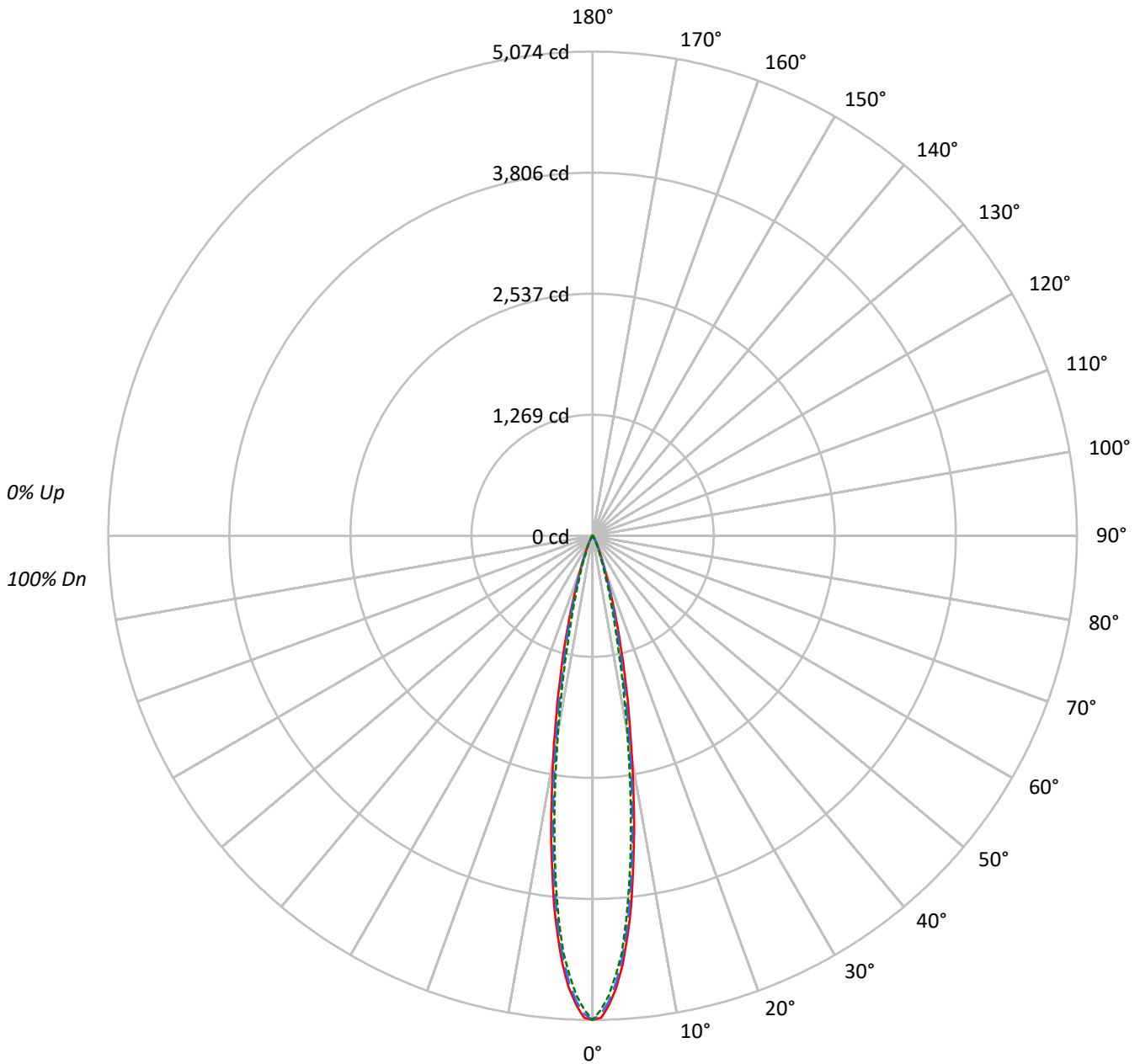
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P282703

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P282703

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MMS

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

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

	0°	45°	90°
0°	2503219	2503219	2503219
5°	2082957	2044773	2003470
10°	1193117	1119574	1044879
15°	530634	471284	394924
20°	192527	181028	143384
25°	73925	69025	59445
30°	31902	29624	26319
35°	15057	15057	12467
40°	7535	7793	6312
45°	4396	4117	3837
50°	2993	2686	2686
55°	2322	1720	1978
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282703

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.0	48.1
10°-20°	267.1	38.9
20°-30°	64.4	9.4
30°-40°	16.4	2.4
40°-50°	4.9	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.2
70°-80°	0.3	0.0
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°	661.5	96.4
0°-40°	677.9	98.8
0°-60°	684.8	99.8
0°-90°	686.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5074	5074	5074	5074	5074	
5°	4206	4167	4129	4093	4045	340
15°	1039	1014	923	831	773	296
25°	136	137	127	115	109	70
35°	25	25	25	23	21	17
45°	6	6	6	6	6	5
55°	3	2	2	2	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



TEST NUMBER: P282703

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5073.8	5073.8	5073.8	5073.8	5073.8
1°	5051.1	5015.9	5011.6	5033.5	4968.9
2°	4922.0	4896.9	4882.5	4895.4	4822.2
3°	4744.7	4720.5	4694.2	4694.6	4612.8
4°	4503.3	4484.1	4439.9	4426.6	4379.2
5°	4205.9	4167.1	4128.8	4092.8	4045.4
6°	3877.2	3827.1	3772.3	3718.7	3670.2
7°	3490.6	3457.3	3384.9	3311.7	3270.6
8°	3127.0	3073.4	2988.9	2897.3	2862.5
9°	2736.1	2697.7	2600.7	2494.3	2459.4
10°	2381.6	2341.6	2234.8	2116.2	2085.7
11°	2048.9	2011.4	1900.2	1775.8	1743.3
12°	1767.6	1714.4	1586.8	1478.8	1447.1
13°	1487.4	1451.0	1330.1	1223.3	1161.8
14°	1249.1	1219.0	1109.4	1015.5	950.5
15°	1038.9	1014.3	922.7	831.2	773.2
16°	852.3	837.0	764.6	676.2	628.8
17°	691.5	677.4	631.2	549.8	509.9
18°	558.4	556.5	518.1	447.7	412.1
19°	459.4	458.6	423.4	364.3	335.0
20°	366.7	371.8	344.8	293.1	273.1
21°	299.0	301.7	280.2	241.1	223.1
22°	243.4	245.4	231.3	199.2	189.4
23°	199.6	200.7	189.0	165.1	156.5
24°	164.4	165.1	154.6	137.7	130.3
25°	135.8	136.6	126.8	115.0	109.2
26°	112.7	113.5	104.9	96.7	90.8
27°	93.5	95.1	86.5	81.4	75.1
28°	79.8	80.2	72.4	69.3	63.4
29°	65.3	67.7	61.0	58.3	54.0
30°	56.0	57.1	52.0	50.1	46.2
32.5°	37.2	38.0	35.6	34.0	30.9
35°	25.0	25.4	25.0	22.7	20.7
37.5°	17.2	17.2	17.6	14.9	14.1
40°	11.7	11.7	12.1	10.2	9.8
42.5°	8.6	8.6	8.2	7.0	7.0
45°	6.3	6.3	5.9	5.5	5.5
47.5°	5.1	4.7	4.3	4.3	4.3
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	2.0	2.0	2.3
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



TEST NUMBER: P282703

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MMS

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)