

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: P282702

Luminaire Tested: **LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282702
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 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: 674.9 lumens
Efficiency: N/A
Efficacy: 67.5 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

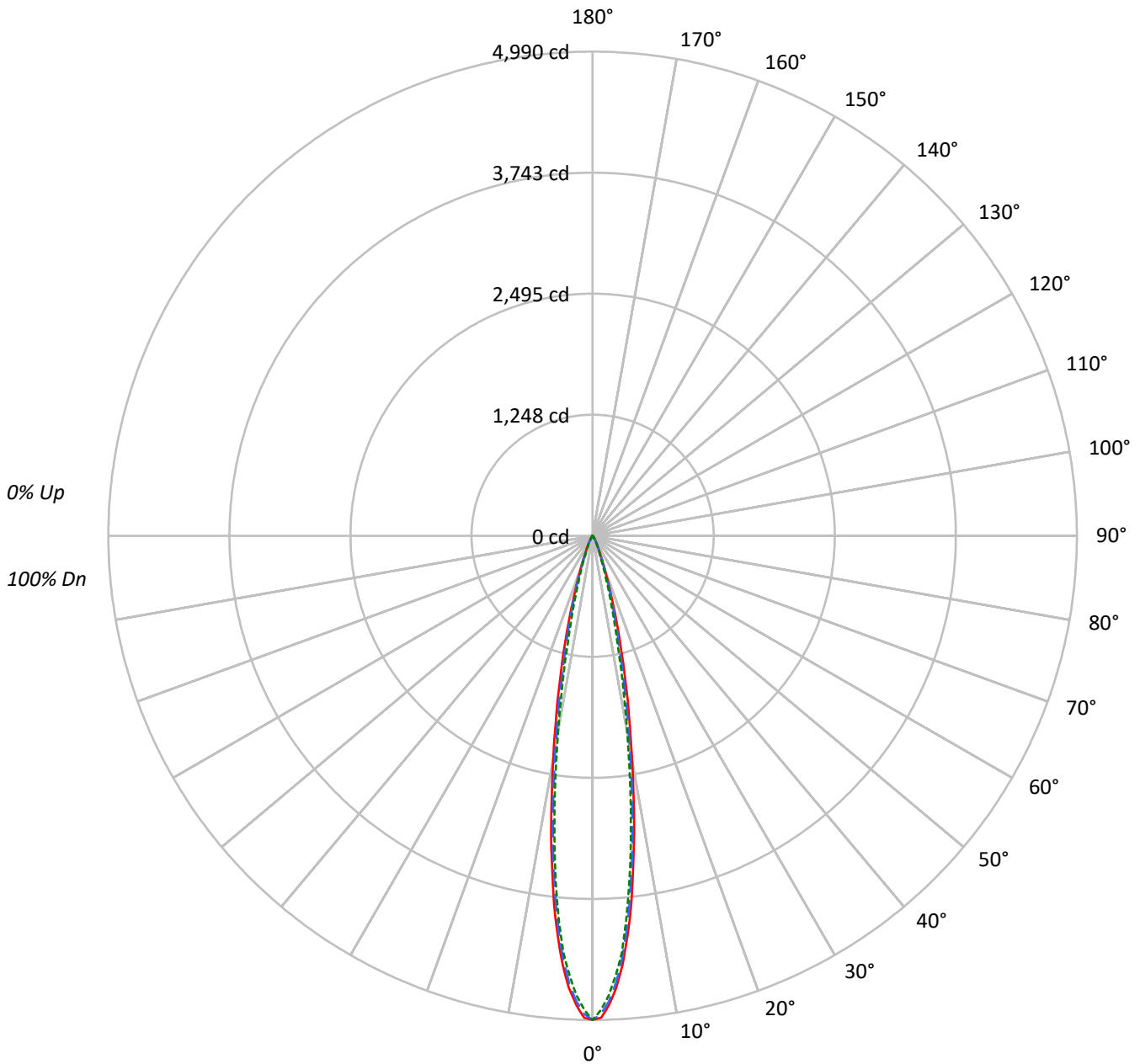
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282702

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282702

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MB

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	99	97	97	100													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95	95	94	92													
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	94	93	92	91	90	88													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93	92	91	90	89	88	86													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90	89	88	87	86	85	83													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	87	86	85	84	83	81													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86	85	84	83	82	81	79													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84	83	82	81	80	79	77													
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	82	81	80	79	78	77	75													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81	80	79	78	77	76	74													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79	78	77	76	75	74	72													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2461974	2461974	2461974
5°	2048636	2011096	1970486
10°	1173428	1101138	1027695
15°	521900	463520	388437
20°	189324	178036	141022
25°	72727	67882	58465
30°	31333	29168	25864
35°	14816	14816	12287
40°	7406	7664	6183
45°	4326	4047	3768
50°	2917	2686	2686
55°	2322	1634	1978
60°	1875	1184	1480
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282702

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	48.1
10°-20°	262.7	38.9
20°-30°	63.3	9.4
30°-40°	16.1	2.4
40°-50°	4.8	0.7
50°-60°	2.0	0.3
60°-70°	1.0	0.2
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°	650.6	96.4
0°-40°	666.7	98.8
0°-60°	673.5	99.8
0°-90°	674.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4990	4990	4990	4990	4990	
5°	4137	4098	4061	4025	3979	334
15°	1022	998	908	818	760	291
25°	134	134	125	113	107	69
35°	25	25	25	22	20	17
45°	6	6	6	5	5	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: P282702

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4990.2	4990.2	4990.2	4990.2	4990.2
1°	4967.9	4933.3	4929.0	4950.6	4887.1
2°	4840.9	4816.3	4802.0	4814.7	4742.8
3°	4666.6	4642.7	4616.9	4617.3	4536.9
4°	4429.1	4410.2	4366.7	4353.7	4307.1
5°	4136.6	4098.5	4060.8	4025.4	3978.8
6°	3813.3	3764.0	3710.2	3657.4	3609.7
7°	3433.0	3400.3	3329.1	3257.2	3216.8
8°	3075.5	3022.8	2939.6	2849.6	2815.3
9°	2691.0	2653.3	2557.9	2453.2	2418.9
10°	2342.3	2303.1	2198.0	2081.4	2051.4
11°	2015.2	1978.2	1868.9	1746.5	1714.6
12°	1738.5	1686.1	1560.7	1454.4	1423.3
13°	1462.9	1427.1	1308.2	1203.1	1142.7
14°	1228.5	1198.9	1091.1	998.7	934.9
15°	1021.8	997.6	907.5	817.5	760.5
16°	838.2	823.2	752.0	665.1	618.5
17°	680.1	666.2	620.8	540.7	501.5
18°	549.2	547.3	509.6	440.3	405.3
19°	451.8	451.1	416.4	358.3	329.4
20°	360.6	365.6	339.1	288.3	268.6
21°	294.0	296.7	275.6	237.1	219.4
22°	239.4	241.3	227.5	195.9	186.3
23°	196.3	197.4	185.9	162.4	153.9
24°	161.6	162.4	152.0	135.5	128.2
25°	133.6	134.3	124.7	113.2	107.4
26°	110.8	111.6	103.1	95.1	89.3
27°	92.0	93.5	85.1	80.1	73.9
28°	78.5	78.9	71.2	68.1	62.3
29°	64.3	66.6	60.0	57.3	53.1
30°	55.0	56.2	51.2	49.3	45.4
32.5°	36.6	37.3	35.0	33.5	30.4
35°	24.6	25.0	24.6	22.3	20.4
37.5°	16.9	16.9	17.3	14.6	13.9
40°	11.5	11.5	11.9	10.0	9.6
42.5°	8.5	8.5	8.1	6.9	6.9
45°	6.2	6.2	5.8	5.4	5.4
47.5°	5.0	4.6	4.2	4.2	4.2
50°	3.8	3.8	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.2	1.5	1.5



TEST NUMBER: P282702

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MB

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°	1.5	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)