

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: P282278

Luminaire Tested: **LDA2B10D2WD010 EU2B10NFL25D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282278
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 742.3 lumens
Efficiency: N/A
Efficacy: 74.2 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

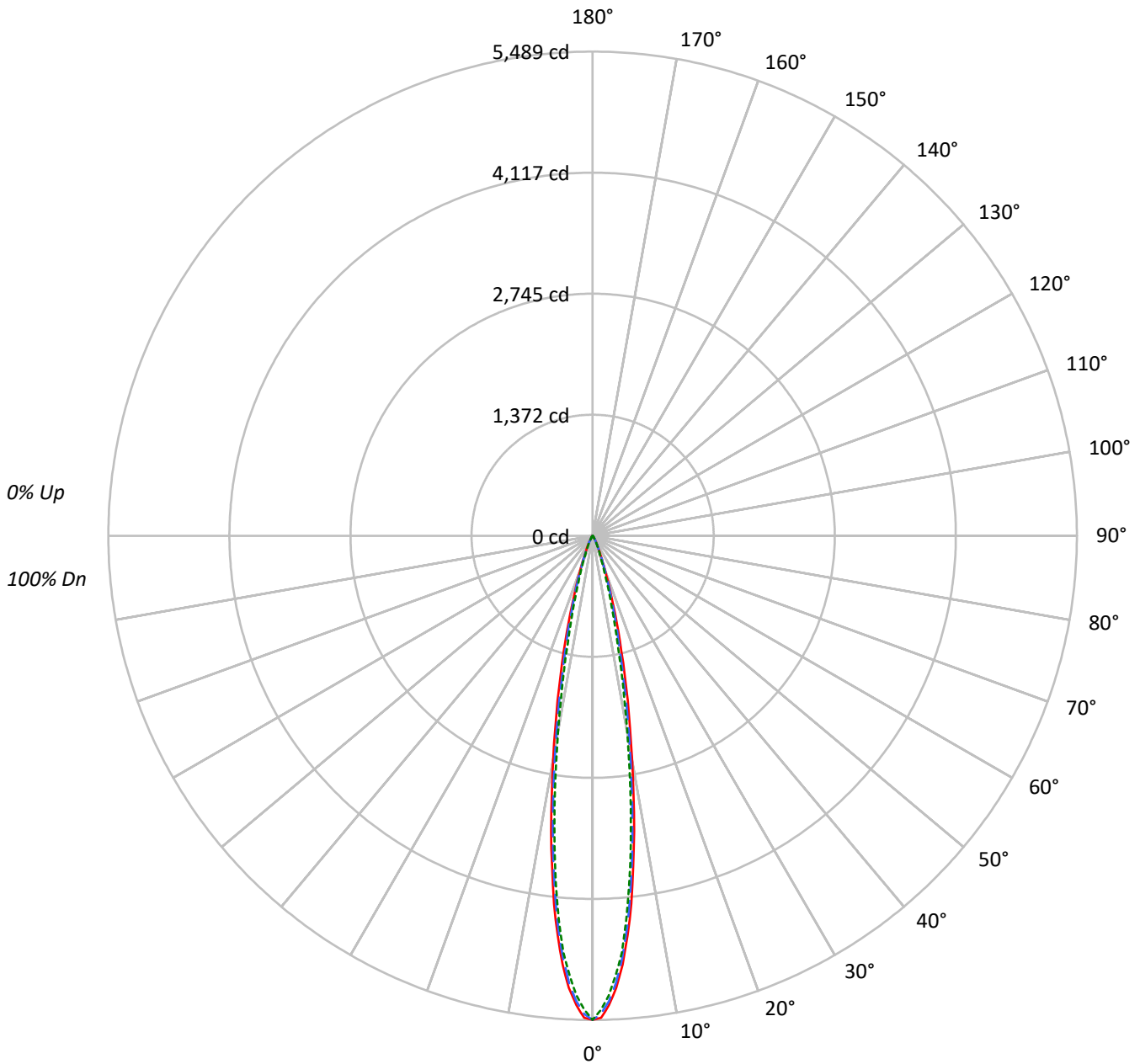
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282278

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P282278

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBAPINSQ1MW

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°	2707866	2707866	2707866
5°	2253222	2211919	2167297
10°	1290656	1211101	1130295
15°	574050	509846	427256
20°	208225	195782	155145
25°	79967	74687	64289
30°	34466	32073	28484
35°	16322	16322	13491
40°	8179	8437	6827
45°	4744	4396	4117
50°	3224	2917	2917
55°	2580	1806	2150
60°	2072	1283	1677
65°	1518	934	1518
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282278

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	48.1
10°-20°	288.9	38.9
20°-30°	69.7	9.4
30°-40°	17.8	2.4
40°-50°	5.3	0.7
50°-60°	2.3	0.3
60°-70°	1.1	0.1
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°	715.5	96.4
0°-40°	733.3	98.8
0°-60°	740.8	99.8
0°-90°	742.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	742.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5489	5489	5489	5489	5489	
5°	4550	4508	4466	4427	4376	368
15°	1124	1097	998	899	836	320
25°	147	148	137	124	118	76
35°	27	28	27	25	22	19
45°	7	7	6	6	6	6
55°	3	2	2	2	2	3
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	



TEST NUMBER: P282278

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5488.6	5488.6	5488.6	5488.6	5488.6
1°	5464.1	5426.0	5421.3	5445.0	5375.2
2°	5324.4	5297.3	5281.6	5295.6	5216.5
3°	5132.6	5106.4	5078.0	5078.5	4990.0
4°	4871.5	4850.7	4802.9	4788.5	4737.3
5°	4549.7	4507.8	4466.3	4427.4	4376.2
6°	4194.2	4140.0	4080.7	4022.7	3970.2
7°	3775.9	3739.9	3661.6	3582.5	3538.0
8°	3382.7	3324.7	3233.2	3134.2	3096.5
9°	2959.8	2918.3	2813.3	2698.2	2660.5
10°	2576.3	2533.1	2417.5	2289.3	2256.2
11°	2216.5	2175.8	2055.6	1921.0	1885.8
12°	1912.1	1854.5	1716.5	1599.7	1565.4
13°	1609.0	1569.6	1438.8	1323.3	1256.8
14°	1351.2	1318.6	1200.1	1098.5	1028.2
15°	1123.9	1097.2	998.2	899.1	836.5
16°	922.0	905.5	827.1	731.5	680.3
17°	748.0	732.8	682.8	594.8	551.6
18°	604.1	601.9	560.5	484.3	445.7
19°	497.0	496.1	458.0	394.1	362.4
20°	396.6	402.1	372.9	317.1	295.5
21°	323.4	326.4	303.1	260.8	241.3
22°	263.3	265.4	250.2	215.5	204.9
23°	215.9	217.2	204.5	178.6	169.3
24°	177.8	178.6	167.2	149.0	141.0
25°	146.9	147.7	137.2	124.5	118.1
26°	121.9	122.8	113.4	104.6	98.2
27°	101.2	102.9	93.6	88.0	81.3
28°	86.4	86.8	78.3	74.9	68.6
29°	70.7	73.2	66.0	63.1	58.4
30°	60.5	61.8	56.3	54.2	50.0
32.5°	40.2	41.1	38.5	36.8	33.4
35°	27.1	27.5	27.1	24.6	22.4
37.5°	18.6	18.6	19.0	16.1	15.2
40°	12.7	12.7	13.1	11.0	10.6
42.5°	9.3	9.3	8.9	7.6	7.6
45°	6.8	6.8	6.3	5.9	5.9
47.5°	5.5	5.1	4.7	4.7	4.7
50°	4.2	4.2	3.8	3.4	3.8
52.5°	3.4	3.4	3.0	3.0	3.0
55°	3.0	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.7	1.7	2.1
60°	2.1	1.7	1.3	1.7	1.7



TEST NUMBER: P282278

CATALOG NUMBER: LDA2B10D2WD010 EU2B10NFL25D2W 2LBAPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.8	0.8	1.3



(END OF REPORT)