

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: P282743

Luminaire Tested: **LDA2B15D2WD010 EU2B15NFL25D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282743  
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: LDA2B15D2WD010 EU2B15NFL25D2W 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 910.8 lumens  
Efficiency: N/A  
Efficacy: 64.6 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

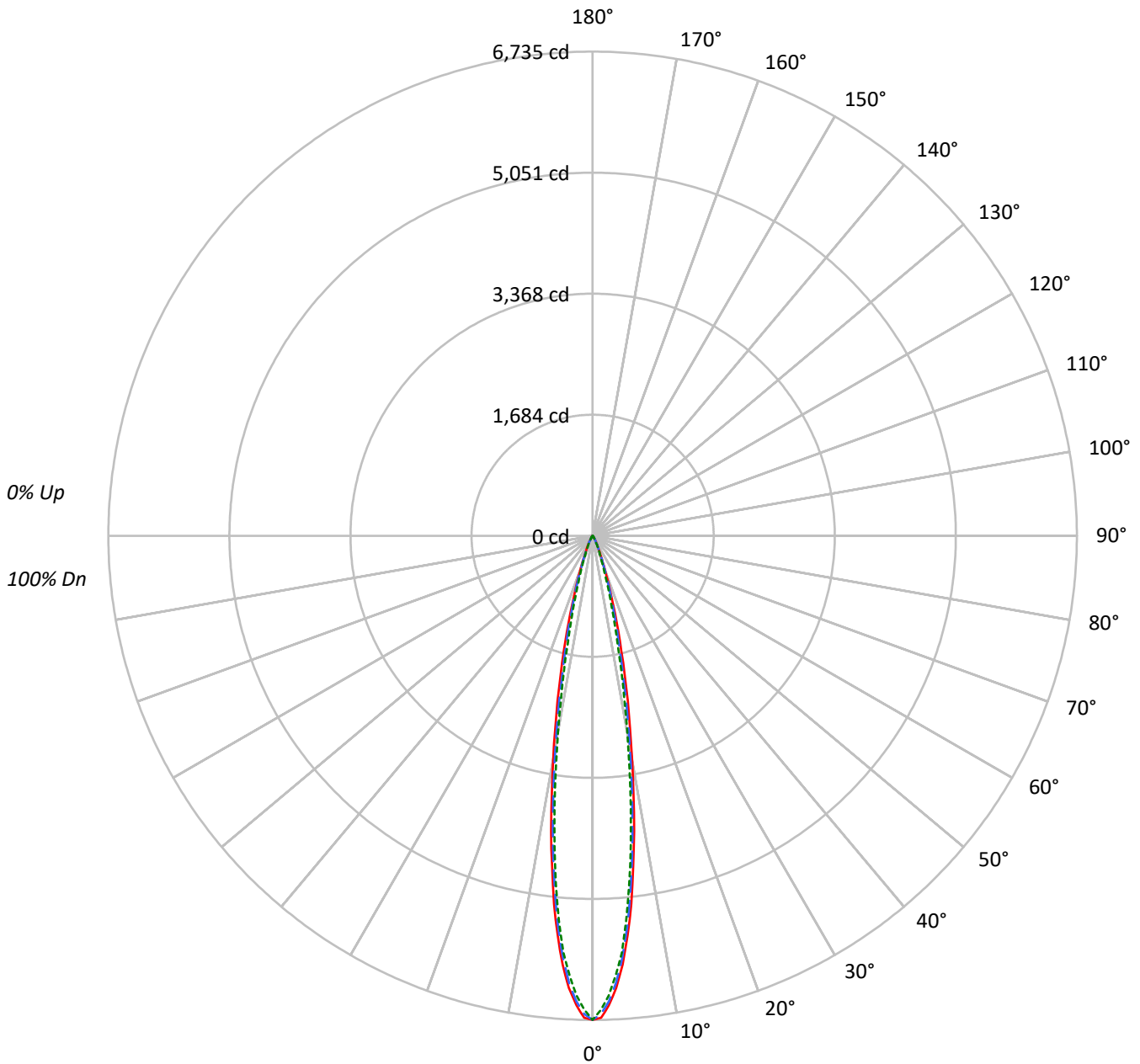
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	3322644	3322644	3322644
5°	2764812	2714099	2659324
10°	1583675	1486085	1386943
15°	704346	625586	524250
20°	255529	240251	190374
25°	98094	91617	78878
30°	42328	39365	34922
35°	19996	19996	16563
40°	10047	10369	8372
45°	5791	5442	5093
50°	3991	3607	3607
55°	3097	2236	2666
60°	2565	1579	2072
65°	1868	1167	1868
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.0	48.1
10°-20°	354.5	38.9
20°-30°	85.5	9.4
30°-40°	21.8	2.4
40°-50°	6.5	0.7
50°-60°	2.8	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	878.0	96.4
0°-40°	899.8	98.8
0°-60°	909.0	99.8
0°-90°	910.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6735	6735	6735	6735	6735	
5°	5583	5531	5480	5432	5370	451
15°	1379	1346	1225	1103	1026	393
25°	180	181	168	153	145	93
35°	33	34	33	30	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6734.7	6734.7	6734.7	6734.7	6734.7
1°	6704.6	6657.8	6652.1	6681.2	6595.5
2°	6533.2	6499.9	6480.7	6497.9	6400.7
3°	6297.9	6265.7	6230.9	6231.4	6122.8
4°	5977.4	5952.0	5893.3	5875.6	5812.8
5°	5582.7	5531.2	5480.3	5432.5	5369.7
6°	5146.3	5079.9	5007.1	4936.0	4871.6
7°	4633.2	4589.0	4492.9	4395.8	4341.3
8°	4150.6	4079.5	3967.3	3845.7	3799.5
9°	3631.7	3580.8	3452.0	3310.7	3264.5
10°	3161.2	3108.2	2966.4	2809.0	2768.5
11°	2719.6	2669.8	2522.3	2357.1	2314.0
12°	2346.2	2275.6	2106.2	1962.9	1920.8
13°	1974.3	1926.0	1765.5	1623.7	1542.1
14°	1658.0	1618.0	1472.5	1347.9	1261.7
15°	1379.0	1346.3	1224.8	1103.2	1026.4
16°	1131.3	1111.0	1014.9	897.5	834.7
17°	917.8	899.1	837.8	729.8	676.8
18°	741.2	738.6	687.7	594.2	546.9
19°	609.8	608.8	562.0	483.6	444.6
20°	486.7	493.4	457.6	389.0	362.6
21°	396.8	400.5	371.9	320.0	296.1
22°	323.1	325.7	307.0	264.4	251.4
23°	264.9	266.5	250.9	219.2	207.8
24°	218.2	219.2	205.2	182.8	173.0
25°	180.2	181.3	168.3	152.7	144.9
26°	149.6	150.6	139.2	128.3	120.5
27°	124.1	126.2	114.8	108.0	99.7
28°	106.0	106.5	96.1	91.9	84.1
29°	86.7	89.9	81.0	77.4	71.7
30°	74.3	75.8	69.1	66.5	61.3
32.5°	49.3	50.4	47.3	45.2	41.0
35°	33.2	33.8	33.2	30.1	27.5
37.5°	22.9	22.9	23.4	19.7	18.7
40°	15.6	15.6	16.1	13.5	13.0
42.5°	11.4	11.4	10.9	9.3	9.3
45°	8.3	8.3	7.8	7.3	7.3
47.5°	6.8	6.2	5.7	5.7	5.7
50°	5.2	5.2	4.7	4.2	4.7
52.5°	4.2	4.2	3.6	3.6	3.6
55°	3.6	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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



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







62.5°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.0	1.0	1.6



(END OF REPORT)