

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: P282745

Luminaire Tested: **LDA2B15D2WD010 EU2B15NFL25D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282745  
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 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 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: 913.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 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

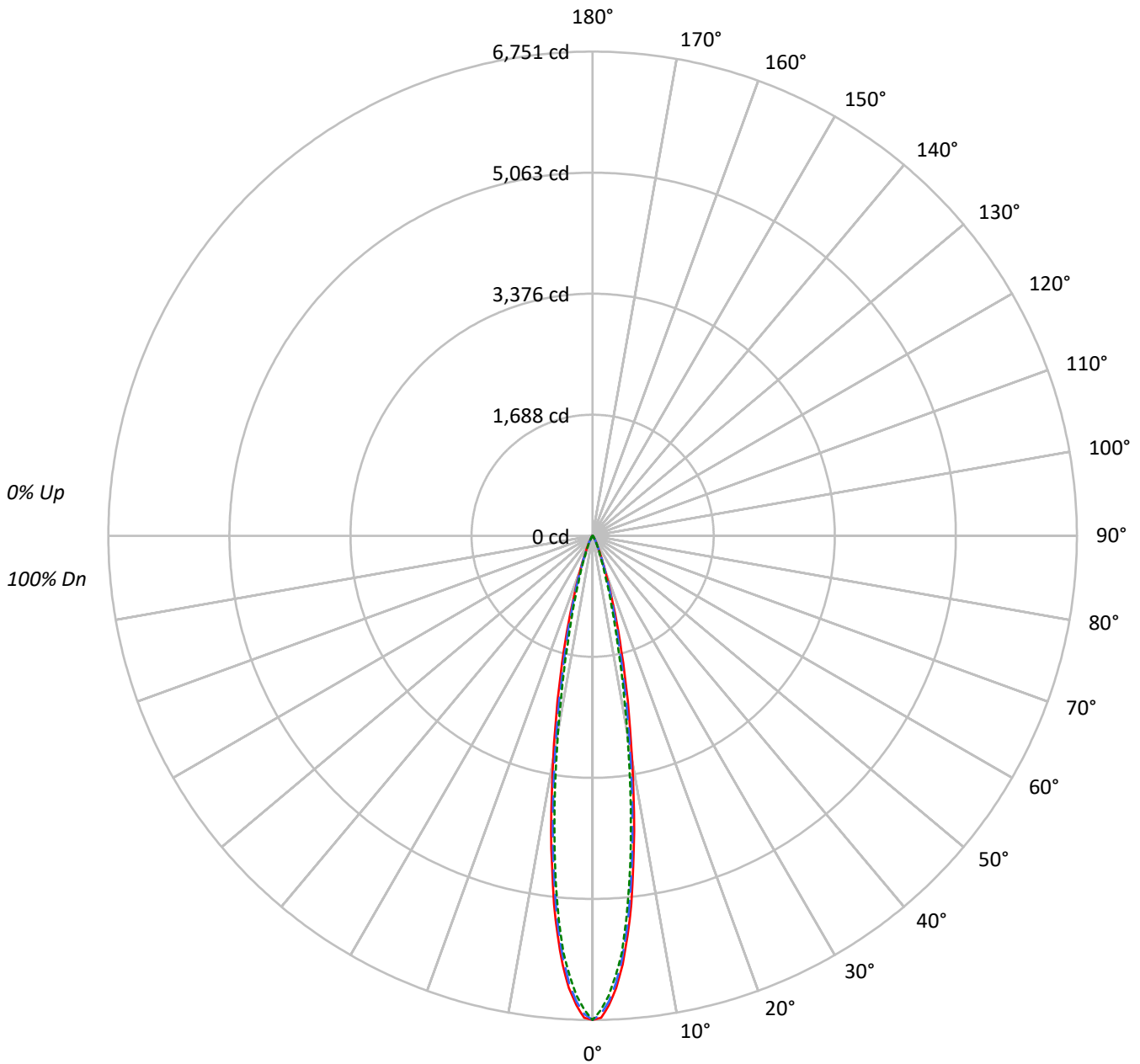
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
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°	3330784	3330784	3330784
5°	2771547	2720735	2665812
10°	1587532	1489692	1390299
15°	706083	627118	525527
20°	256160	240829	190794
25°	98367	91834	79096
30°	42442	39479	34979
35°	20056	20056	16623
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°	439.1	48.1
10°-20°	355.3	38.9
20°-30°	85.7	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°	880.1	96.4
0°-40°	902.0	98.8
0°-60°	911.2	99.8
0°-90°	913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6751	6751	6751	6751	6751	
5°	5596	5545	5494	5446	5383	453
15°	1382	1350	1228	1106	1029	394
25°	181	182	169	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°	6751.2	6751.2	6751.2	6751.2	6751.2
1°	6721.0	6674.1	6668.4	6697.6	6611.6
2°	6549.2	6515.8	6496.6	6513.8	6416.4
3°	6313.3	6281.0	6246.1	6246.6	6137.8
4°	5992.0	5966.5	5907.7	5890.0	5827.0
5°	5596.3	5544.8	5493.7	5445.8	5382.8
6°	5158.9	5092.3	5019.4	4948.1	4883.5
7°	4644.5	4600.2	4503.9	4406.6	4351.9
8°	4160.8	4089.5	3977.0	3855.1	3808.8
9°	3640.6	3589.6	3460.5	3318.8	3272.5
10°	3168.9	3115.8	2973.6	2815.9	2775.2
11°	2726.3	2676.3	2528.4	2362.9	2319.6
12°	2351.9	2281.1	2111.4	1967.7	1925.5
13°	1979.1	1930.7	1769.8	1627.7	1545.9
14°	1662.0	1621.9	1476.1	1351.2	1264.7
15°	1382.4	1349.6	1227.8	1105.9	1028.9
16°	1134.1	1113.7	1017.4	899.7	836.7
17°	920.0	901.3	839.9	731.6	678.5
18°	743.0	740.4	689.4	595.7	548.3
19°	611.3	610.2	563.4	484.8	445.7
20°	487.9	494.7	458.7	390.0	363.4
21°	397.8	401.4	372.8	320.7	296.8
22°	323.9	326.5	307.7	265.0	252.0
23°	265.5	267.1	251.5	219.7	208.3
24°	218.7	219.7	205.7	183.3	173.4
25°	180.7	181.7	168.7	153.1	145.3
26°	150.0	151.0	139.5	128.6	120.8
27°	124.4	126.5	115.1	108.3	100.0
28°	106.2	106.7	96.3	92.2	84.4
29°	87.0	90.1	81.2	77.6	71.9
30°	74.5	76.0	69.3	66.6	61.4
32.5°	49.5	50.5	47.4	45.3	41.1
35°	33.3	33.8	33.3	30.2	27.6
37.5°	22.9	22.9	23.4	19.8	18.7
40°	15.6	15.6	16.1	13.5	13.0
42.5°	11.5	11.5	10.9	9.4	9.4
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)