

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: P282364

Luminaire Tested: **LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282364  
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 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 977.7 lumens  
Efficiency: N/A  
Efficacy: 69.3 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

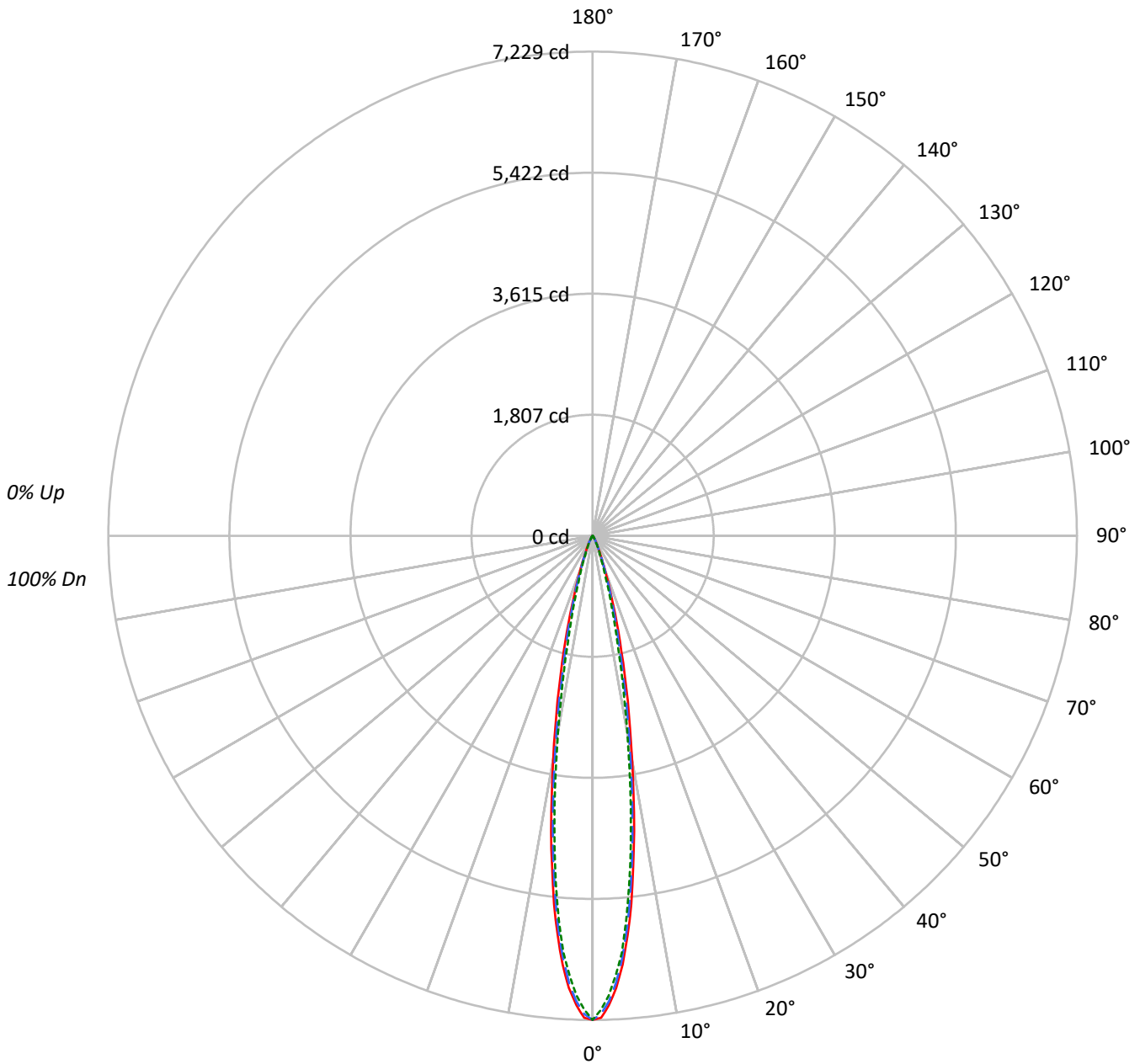
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	99	99	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	92	92	92	95													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92	92	91	91	89	89	92													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90	89	88	88	86	86	89													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	87	87	85	85	84	88													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86	86	84	84	83	83	86													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84	84	83	83	81	81	84													
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83	82	82	82	81	81	83													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81	81	81	80	80	80	81													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79	79	79	78	78	78	79													

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

	0°	45°	90°
0°	3566512	3566512	3566512
5°	2967714	2913336	2854501
10°	1699901	1595147	1488741
15°	756086	671504	562711
20°	274273	257892	204340
25°	105335	98312	84703
30°	45404	42271	37485
35°	21502	21502	17767
40°	10755	11142	8952
45°	6210	5861	5442
50°	4298	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.2	48.1
10°-20°	380.5	38.9
20°-30°	91.8	9.4
30°-40°	23.4	2.4
40°-50°	7.0	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	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°	942.4	96.4
0°-40°	965.8	98.8
0°-60°	975.7	99.8
0°-90°	977.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7229	7229	7229	7229	7229	
5°	5992	5937	5883	5831	5764	485
15°	1480	1445	1315	1184	1102	422
25°	194	195	181	164	156	100
35°	36	36	36	32	30	25
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7229.0	7229.0	7229.0	7229.0	7229.0
1°	7196.7	7146.5	7140.4	7171.6	7079.6
2°	7012.7	6977.0	6956.4	6974.8	6870.5
3°	6760.1	6725.6	6688.2	6688.8	6572.2
4°	6416.1	6388.8	6325.8	6306.8	6239.4
5°	5992.4	5937.2	5882.6	5831.3	5763.8
6°	5524.1	5452.7	5374.6	5298.3	5229.1
7°	4973.2	4925.8	4822.7	4718.4	4659.9
8°	4455.3	4378.9	4258.5	4128.0	4078.4
9°	3898.3	3843.7	3705.4	3553.7	3504.1
10°	3393.2	3336.3	3184.1	3015.2	2971.7
11°	2919.3	2865.7	2707.4	2530.1	2483.8
12°	2518.4	2442.6	2260.8	2106.9	2061.8
13°	2119.2	2067.3	1895.1	1742.9	1655.3
14°	1779.7	1736.7	1580.6	1446.8	1354.3
15°	1480.3	1445.1	1314.7	1184.2	1101.7
16°	1214.3	1192.6	1089.4	963.4	896.0
17°	985.2	965.1	899.3	783.3	726.5
18°	795.6	792.8	738.2	637.8	587.1
19°	654.5	653.4	603.3	519.1	477.3
20°	522.4	529.7	491.2	417.6	389.2
21°	426.0	429.9	399.2	343.4	317.8
22°	346.8	349.6	329.5	283.8	269.8
23°	284.3	286.0	269.3	235.3	223.0
24°	234.2	235.3	220.2	196.3	185.7
25°	193.5	194.6	180.6	163.9	155.6
26°	160.6	161.7	149.4	137.7	129.3
27°	133.3	135.5	123.2	116.0	107.0
28°	113.7	114.3	103.1	98.7	90.3
29°	93.1	96.5	87.0	83.1	76.9
30°	79.7	81.4	74.2	71.4	65.8
32.5°	53.0	54.1	50.7	48.5	44.0
35°	35.7	36.2	35.7	32.3	29.5
37.5°	24.5	24.5	25.1	21.2	20.1
40°	16.7	16.7	17.3	14.5	13.9
42.5°	12.3	12.3	11.7	10.0	10.0
45°	8.9	8.9	8.4	7.8	7.8
47.5°	7.2	6.7	6.1	6.1	6.1
50°	5.6	5.6	5.0	4.5	5.0
52.5°	4.5	4.5	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)