

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: P281735

Luminaire Tested: **LDA2B15D2WD010 EU2B15SP15D2W 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B15D2WD010 EU2B15SP15D2W 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1077.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

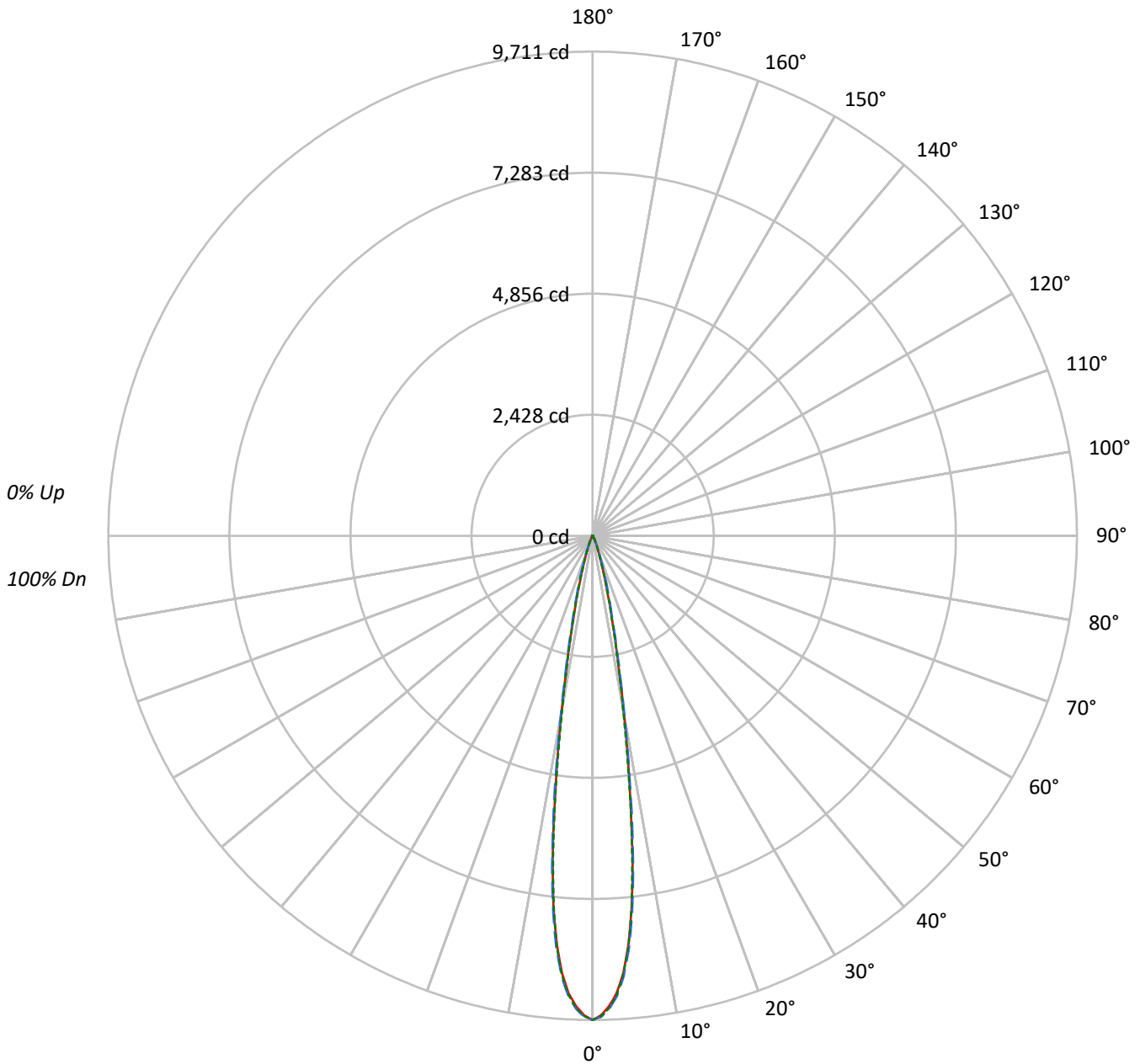
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96						96													
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94						94													
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93						93													
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91						91													
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89						89													
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88						88													
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87						87													
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85						85													
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84						84													

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

	0°	45°	90°
0°	4790888	4790888	4790888
5°	4079592	4122084	4087318
10°	1801047	1842277	1758965
15°	546519	626812	555100
20°	163493	218043	182761
25°	63691	62711	66957
30°	28370	25636	27003
35°	5782	5059	5059
40°	0	386	1546
45°	5024	4186	7535
50°	0	1382	4605
55°	0	0	2064
60°	0	592	2368
65°	0	0	1401
70°	0	3462	6924
75°	0	0	0
80°	0	0	0
85°	0	3396	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.5	58.4
10°-20°	359.5	33.4
20°-30°	68.2	6.3
30°-40°	12.4	1.2
40°-50°	3.2	0.3
50°-60°	2.4	0.2
60°-70°	0.4	0.0
70°-80°	0.5	0.1
80°-90°	0.8	0.1
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°	1057.3	98.2
0°-40°	1069.7	99.3
0°-60°	1075.3	99.8
0°-90°	1077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9711	9711	9711	9711	9711	
5°	8238	8292	8323	8309	8253	625
15°	1070	1164	1227	1153	1087	340
25°	117	126	115	131	123	61
35°	10	12	8	10	8	13
45°	7	11	6	7	11	3
55°	0	1	0	1	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	1	1	1	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9710.7	9710.7	9710.7	9710.7	9710.7
1°	9618.9	9629.1	9650.7	9672.9	9638.1
2°	9438.8	9463.4	9494.0	9514.5	9476.6
3°	9186.8	9221.0	9253.4	9257.6	9222.2
4°	8797.3	8839.3	8873.6	8869.4	8824.9
5°	8237.5	8291.5	8323.3	8308.9	8253.1
6°	7497.5	7549.8	7590.6	7549.2	7474.1
7°	6575.8	6635.8	6679.0	6608.2	6516.4
8°	5507.6	5591.7	5634.9	5535.8	5441.6
9°	4495.9	4554.1	4597.9	4489.9	4393.9
10°	3595.1	3702.0	3677.4	3593.9	3511.1
11°	2827.6	2924.2	2928.4	2872.0	2791.0
12°	2213.7	2315.8	2341.6	2298.4	2226.3
13°	1749.3	1825.5	1868.1	1823.7	1755.3
14°	1392.2	1460.0	1514.6	1457.0	1388.6
15°	1070.0	1163.6	1227.2	1152.8	1086.8
16°	850.9	928.3	1004.0	919.3	866.5
17°	653.5	722.5	800.5	723.7	680.5
18°	517.3	571.9	657.7	578.5	540.7
19°	405.1	446.5	526.3	456.7	426.1
20°	311.4	357.1	415.3	367.9	348.1
22.5°	188.4	213.6	230.4	216.0	205.8
25°	117.0	126.0	115.2	131.4	123.0
26°	102.0	108.6	106.2	117.0	106.8
27°	81.6	90.0	83.4	91.8	88.8
28°	74.4	84.6	71.4	81.6	76.8
29°	52.2	56.4	51.0	54.6	54.6
30°	49.8	51.0	45.0	49.2	47.4
32.5°	39.0	36.6	30.0	31.8	30.6
35°	9.6	12.0	8.4	10.2	8.4
37.5°	14.4	13.2	15.6	15.0	14.4
40°	0.0	0.6	0.6	0.6	2.4
42.5°	10.8	6.6	6.0	4.2	7.2
45°	7.2	11.4	6.0	6.6	10.8
47.5°	0.0	0.6	0.0	1.2	1.2
50°	0.0	1.2	1.8	2.4	6.0
52.5°	1.2	7.2	3.6	6.6	9.6
55°	0.0	0.6	0.0	0.6	2.4
57.5°	2.4	1.2	2.4	2.4	10.8
60°	0.0	1.2	0.6	0.6	2.4
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.2
67.5°	0.0	0.6	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.6	0.0	0.0
80°	0.0	0.6	0.0	0.0	0.0
82.5°	0.0	0.6	1.2	1.8	1.2
85°	0.0	0.6	0.6	0.6	2.4
87.5°	0.0	1.2	1.8	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.8	2.4	0.0	4.8
72.5°	0.0	3.0	0.6	0.6	0.0



(END OF REPORT)