

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: P281328

Luminaire Tested: **LDA2B15D2WD010 EU2B15SP15D2W 2LBALD1WHH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B15D2WD010 EU2B15SP15D2W 2LBALD1WHH  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl w/lens Self-Flanged, WHH  
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): 0.33 / 0.31 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

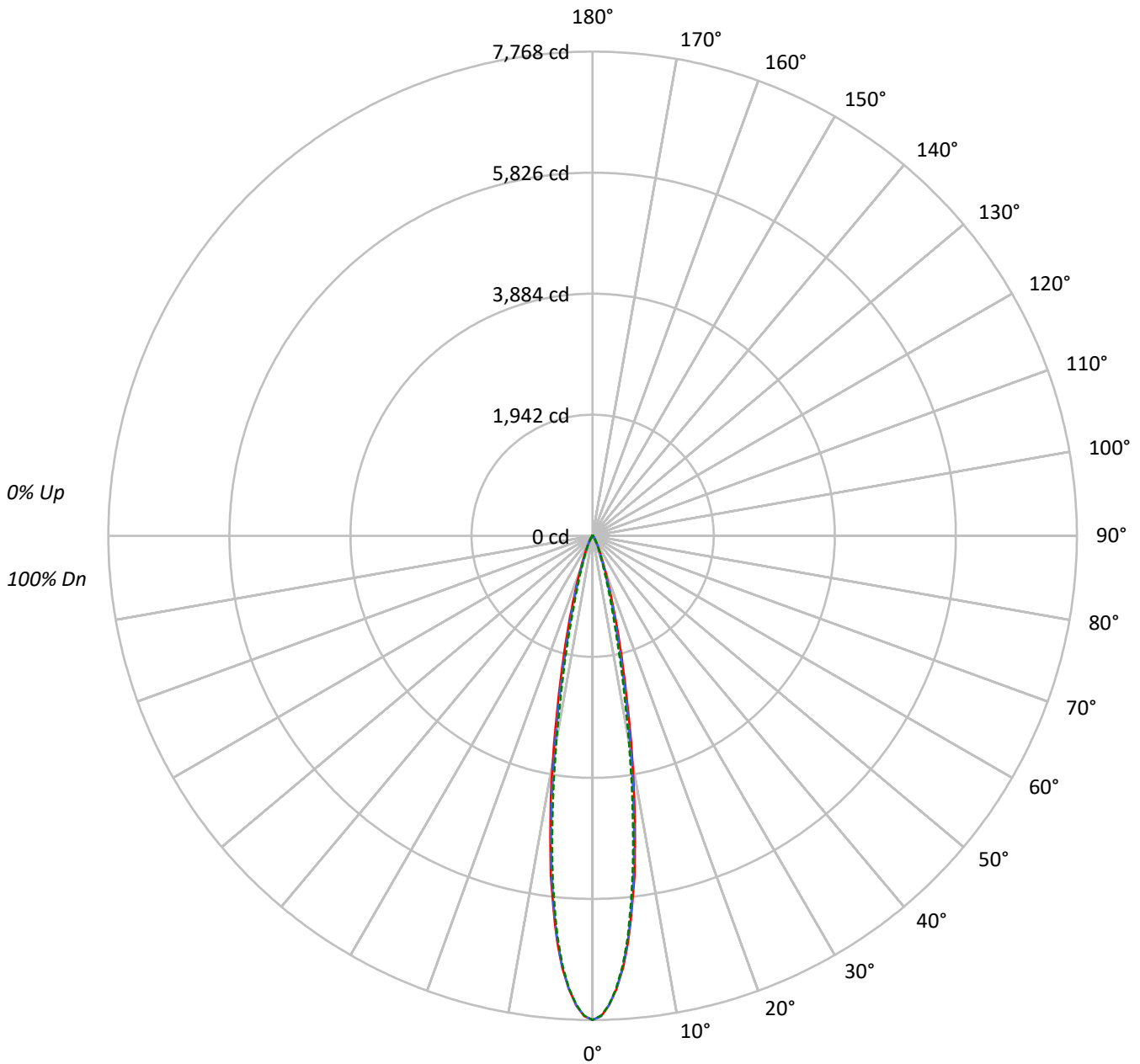
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3832188	3832188	3832188
5°	3237822	3220537	3196766
10°	1842928	1761771	1672197
15°	763186	675998	595502
20°	290286	254217	232743
25°	128252	123190	109526
30°	59361	65571	52183
35°	31198	36800	29211
40°	13718	15779	9145
45°	5303	4186	6070
50°	2533	2917	4221
55°	0	1892	0
60°	0	0	1085
65°	0	0	0
70°	0	721	0
75°	0	0	0
80°	3125	0	0
85°	31134	27737	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.4	48.2
10°-20°	397.0	36.9
20°-30°	110.4	10.3
30°-40°	35.9	3.3
40°-50°	7.9	0.7
50°-60°	2.4	0.2
60°-70°	1.4	0.1
70°-80°	0.8	0.1
80°-90°	1.7	0.2
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°	1026.8	95.3
0°-40°	1062.7	98.7
0°-60°	1073.0	99.6
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°	7768	7768	7768	7768	7768	
5°	6538	6490	6503	6454	6455	529
15°	1494	1442	1324	1222	1166	436
25°	236	238	226	213	201	118
35°	52	56	61	46	48	34
45°	8	11	6	6	9	8
55°	0	3	2	1	0	2
65°	0	2	0	0	0	2
75°	0	0	0	1	0	0
85°	6	3	5	3	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7767.5	7767.5	7767.5	7767.5	7767.5
1°	7708.0	7679.1	7706.9	7690.6	7699.8
2°	7540.6	7504.6	7533.5	7510.6	7529.7
3°	7279.9	7252.1	7277.8	7248.9	7264.1
4°	6953.3	6912.9	6938.6	6899.9	6909.1
5°	6537.8	6489.8	6502.9	6454.3	6454.9
6°	6014.3	5981.0	5988.6	5912.8	5907.4
7°	5502.2	5423.7	5415.5	5328.8	5311.9
8°	4880.6	4809.1	4785.7	4683.7	4647.7
9°	4284.5	4195.6	4147.7	4029.3	3987.3
10°	3678.7	3588.7	3516.7	3383.1	3337.9
11°	3118.1	3036.9	2947.4	2804.6	2760.4
12°	2597.9	2534.1	2435.9	2298.0	2251.6
13°	2173.1	2099.5	1994.2	1866.1	1826.3
14°	1805.0	1725.9	1620.7	1511.1	1433.6
15°	1494.2	1442.4	1323.5	1221.5	1165.9
16°	1221.0	1176.8	1074.3	985.9	946.7
17°	1001.2	965.8	878.5	809.2	776.5
18°	826.2	782.0	713.3	668.0	642.4
19°	670.2	635.8	585.7	550.8	525.1
20°	552.9	524.6	484.2	453.2	443.3
22.5°	357.2	352.3	326.1	309.2	301.0
25°	235.6	238.3	226.3	213.2	201.2
26°	201.2	202.9	192.0	184.3	169.0
27°	172.3	172.9	172.9	158.7	144.0
28°	140.7	146.7	141.2	134.7	120.5
29°	120.5	128.1	125.4	118.9	105.2
30°	104.2	109.6	115.1	104.7	91.6
32.5°	73.1	78.0	84.0	78.5	67.6
35°	51.8	56.2	61.1	46.4	48.5
37.5°	35.4	43.1	41.4	37.6	32.2
40°	21.3	22.4	24.5	26.2	14.2
42.5°	15.3	18.0	16.4	18.5	6.5
45°	7.6	10.9	6.0	6.0	8.7
47.5°	5.5	9.3	3.3	3.3	1.1
50°	3.3	7.1	3.8	1.6	5.5
52.5°	5.5	6.5	4.4	4.9	1.1
55°	0.0	3.3	2.2	1.1	0.0
57.5°	2.2	3.8	2.2	1.1	2.2
60°	0.0	0.0	0.0	0.5	1.1
62.5°	0.0	1.1	0.0	1.6	2.2
65°	0.0	2.2	0.0	0.0	0.0
67.5°	3.3	3.8	2.2	4.4	6.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	1.1	0.0
77.5°	0.0	5.5	1.6	1.6	2.2
80°	1.1	0.0	0.0	0.5	0.0
82.5°	0.0	4.4	0.5	2.2	3.3
85°	5.5	2.7	4.9	2.7	2.2
87.5°	0.0	0.5	1.1	0.5	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.5	0.5	0.0
72.5°	1.1	0.0	0.0	0.0	0.0



(END OF REPORT)