

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: P315739

Luminaire Tested: **LDA2B15WFL8050D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B15WFL8050D010 PIN1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1250.3 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

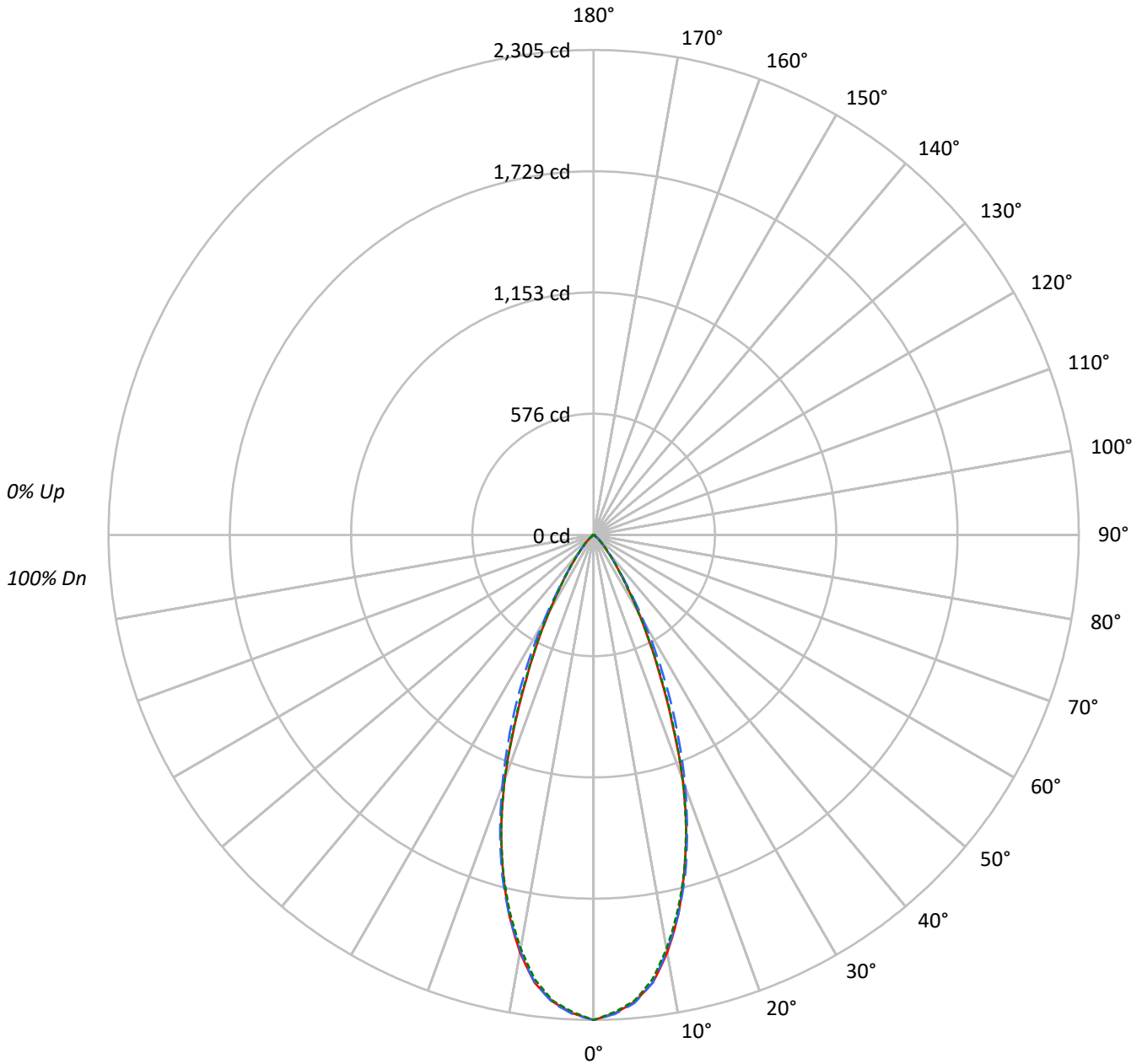
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	1137248	1137248	1137248
5°	1103062	1105737	1100735
10°	1009660	1005653	999591
15°	849301	857167	847922
20°	649455	666729	648405
25°	412411	464996	420467
30°	239894	270828	244053
35°	126781	134851	127202
40°	66916	69943	66916
45°	37398	38793	37886
50°	17500	22105	17500
55°	6365	12128	6881
60°	7302	7302	7302
65°	7822	8639	7822
70°	9665	8655	9665
75°	8959	8959	8959
80°	9660	7671	9660
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.8	16.5
10°-20°	458.1	36.6
20°-30°	370.0	29.6
30°-40°	146.2	11.7
40°-50°	44.9	3.6
50°-60°	11.6	0.9
60°-70°	7.0	0.6
70°-80°	5.1	0.4
80°-90°	1.5	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°	1033.9	82.7
0°-40°	1180.1	94.4
0°-60°	1236.6	98.9
0°-90°	1250.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2227	2231	2233	2228	2223	206
15°	1663	1668	1678	1672	1660	457
25°	758	794	854	809	772	353
35°	210	217	224	217	211	141
45°	54	54	56	55	54	44
55°	7	10	14	10	8	9
65°	7	7	7	7	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2305.1	2305.1	2305.1	2305.1	2305.1
2.5°	2276.3	2277.6	2279.6	2276.9	2270.2
5°	2227.3	2231.3	2232.7	2228.0	2222.6
7.5°	2146.9	2142.2	2146.2	2138.1	2131.4
10°	2015.4	2009.4	2007.4	1995.3	1995.3
12.5°	1853.2	1851.2	1852.5	1846.5	1837.1
15°	1662.8	1667.5	1678.2	1671.5	1660.1
17.5°	1461.0	1467.7	1477.1	1475.0	1459.6
20°	1237.0	1256.5	1269.9	1257.1	1235.0
22.5°	982.2	1023.8	1058.0	1031.2	995.0
25°	757.6	793.8	854.2	808.6	772.4
27.5°	574.6	600.7	655.7	610.8	586.0
30°	421.1	437.1	475.4	445.9	428.4
32.5°	301.0	312.4	328.5	311.1	302.4
35°	210.5	216.6	223.9	217.2	211.2
37.5°	148.2	150.2	155.5	150.2	147.5
40°	103.9	104.6	108.6	105.3	103.9
42.5°	75.1	75.1	77.1	75.8	75.1
45°	53.6	54.3	55.6	55.0	54.3
47.5°	38.2	39.6	39.6	40.2	37.5
50°	22.8	28.2	28.8	28.2	22.8
52.5°	12.1	16.8	20.8	16.8	12.1
55°	7.4	10.1	14.1	10.1	8.0
57.5°	7.4	7.4	9.4	8.0	7.4
60°	7.4	7.4	7.4	7.4	7.4
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.7	7.4	7.4	7.4	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.0	6.7	6.7
72.5°	6.0	6.0	5.4	6.0	6.0
75°	4.7	4.7	4.7	4.7	4.7
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.4	3.4	2.7	3.4	3.4
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)