

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: P315567

Luminaire Tested: **LDA2B05WFL8050D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315567  
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: LDA2B05WFL8050D010 PIN1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 691.6 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

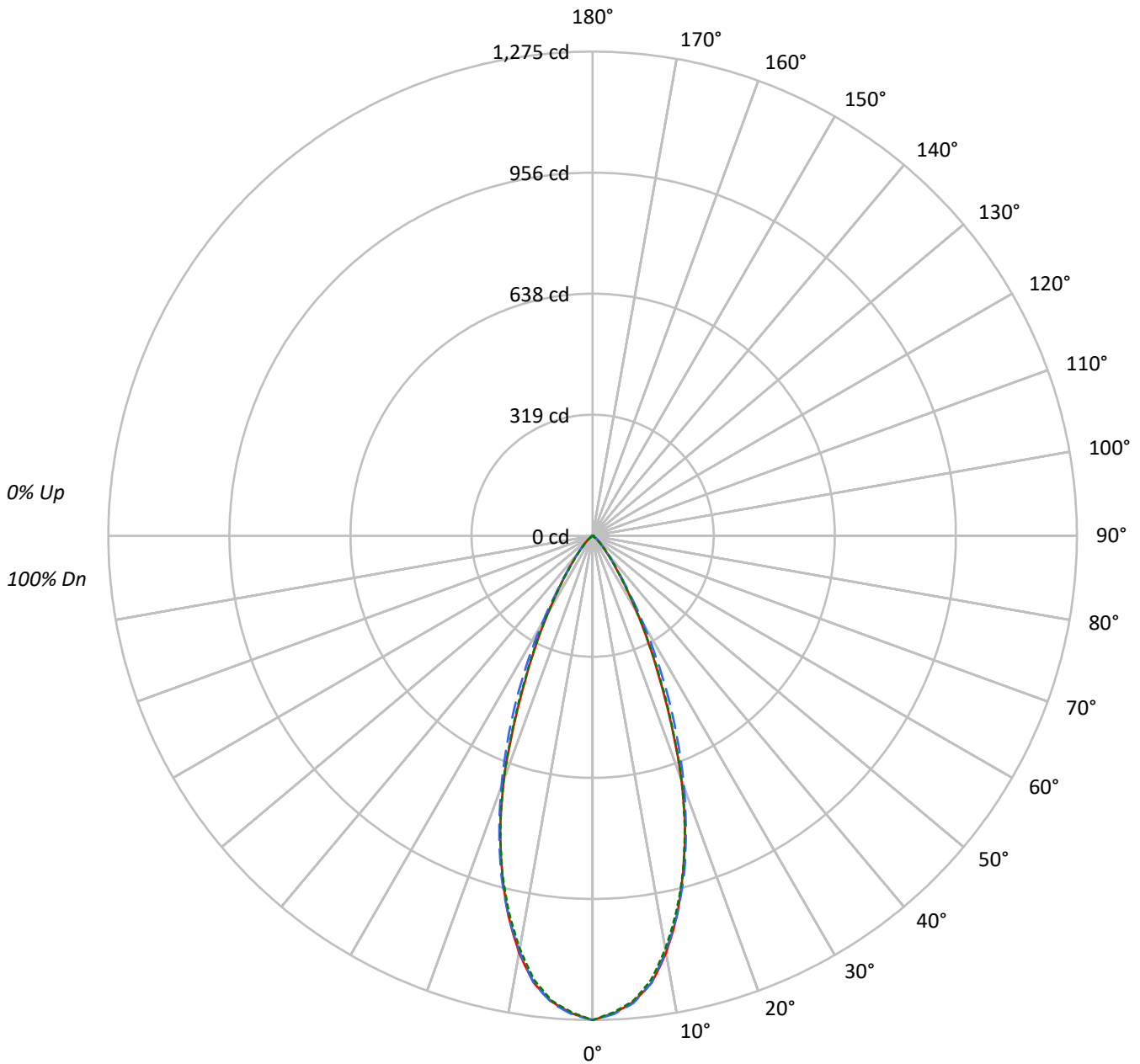
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	629135	629135	629135
5°	610193	611679	608905
10°	558534	556330	552974
15°	469802	474195	469036
20°	359274	368830	358697
25°	228143	257212	232607
30°	132680	149827	135015
35°	70166	74623	70347
40°	37032	38707	37032
45°	20722	21490	20932
50°	9671	12204	9671
55°	3527	6709	3871
60°	4046	4046	4046
65°	4319	4786	4319
70°	5337	4760	5337
75°	4956	4956	4956
80°	5398	4262	5398
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	16.5
10°-20°	253.4	36.6
20°-30°	204.7	29.6
30°-40°	80.9	11.7
40°-50°	24.8	3.6
50°-60°	6.4	0.9
60°-70°	3.9	0.6
70°-80°	2.8	0.4
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°	571.9	82.7
0°-40°	652.8	94.4
0°-60°	684.1	98.9
0°-90°	691.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1232	1234	1235	1232	1230	114
15°	920	922	928	925	918	253
25°	419	439	472	447	427	195
35°	116	120	124	120	117	78
45°	30	30	31	30	30	24
55°	4	6	8	6	4	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1259.2	1259.9	1261.1	1259.6	1255.9
5°	1232.1	1234.4	1235.1	1232.5	1229.5
7.5°	1187.6	1185.0	1187.3	1182.8	1179.1
10°	1114.9	1111.6	1110.5	1103.8	1103.8
12.5°	1025.2	1024.1	1024.8	1021.5	1016.3
15°	919.8	922.4	928.4	924.7	918.3
17.5°	808.2	811.9	817.1	816.0	807.4
20°	684.3	695.1	702.5	695.4	683.2
22.5°	543.4	566.4	585.3	570.4	550.4
25°	419.1	439.1	472.5	447.3	427.3
27.5°	317.9	332.3	362.7	337.9	324.2
30°	232.9	241.8	263.0	246.6	237.0
32.5°	166.5	172.8	181.7	172.1	167.3
35°	116.5	119.8	123.9	120.2	116.8
37.5°	82.0	83.1	86.0	83.1	81.6
40°	57.5	57.9	60.1	58.2	57.5
42.5°	41.5	41.5	42.7	41.9	41.5
45°	29.7	30.0	30.8	30.4	30.0
47.5°	21.1	21.9	21.9	22.3	20.8
50°	12.6	15.6	15.9	15.6	12.6
52.5°	6.7	9.3	11.5	9.3	6.7
55°	4.1	5.6	7.8	5.6	4.5
57.5°	4.1	4.1	5.2	4.5	4.1
60°	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.7	4.1	4.1	4.1	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.3	3.7	3.7
72.5°	3.3	3.3	3.0	3.3	3.3
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)