

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: P315561

Luminaire Tested: **LDA2B05WFL8040D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315561  
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: LDA2B05WFL8040D010 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: 696.1 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

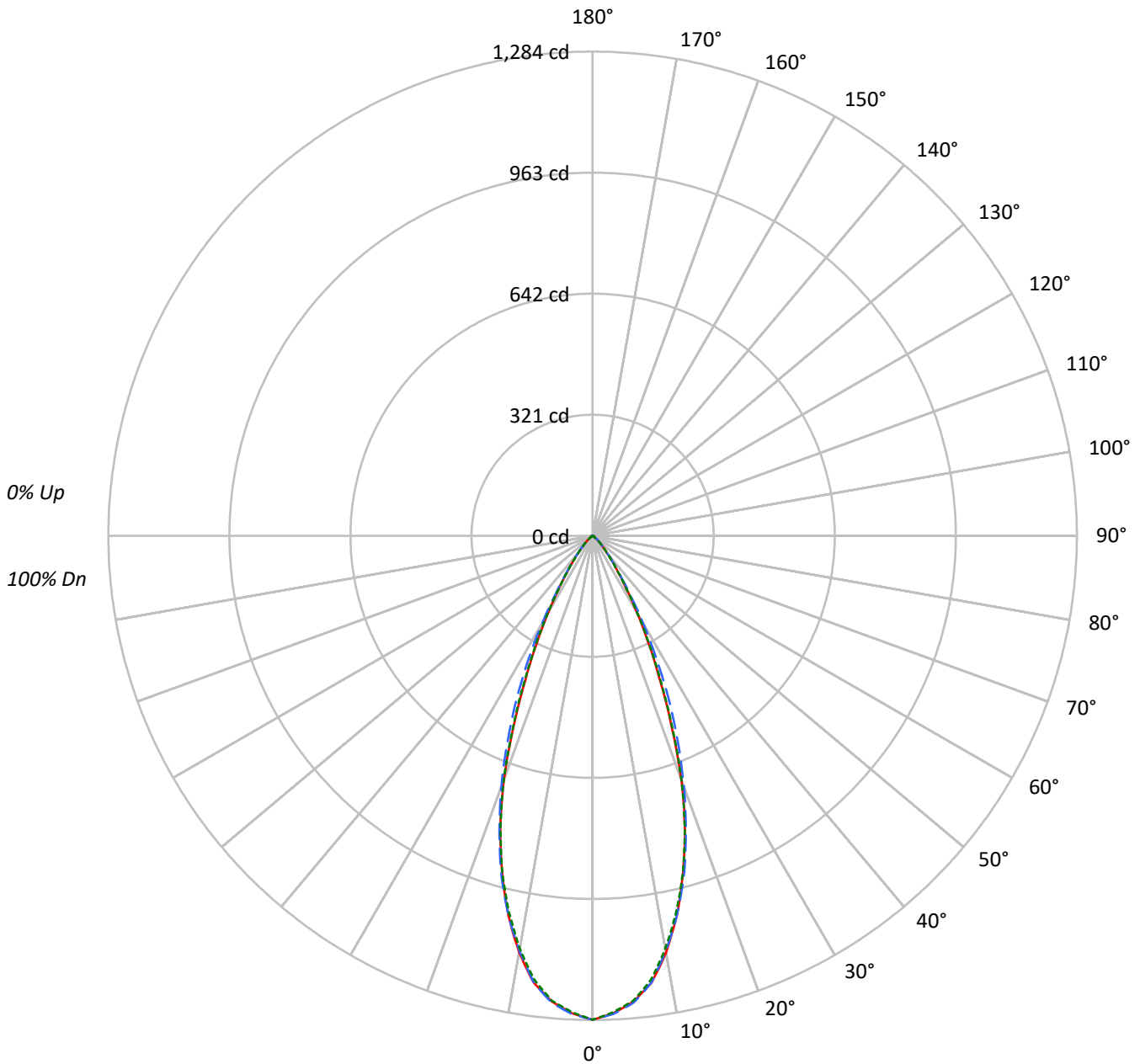
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	633230	633230	633230
5°	614205	615690	612917
10°	562192	559987	556581
15°	472918	477311	472152
20°	361637	371245	361059
25°	229667	258900	234131
30°	133591	150796	135927
35°	70588	75105	70829
40°	37290	38964	37290
45°	20862	21629	21071
50°	9748	12357	9748
55°	3527	6709	3871
60°	4046	4046	4046
65°	4319	4786	4319
70°	5337	4904	5337
75°	4956	4956	4956
80°	5398	4262	5398
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	16.5
10°-20°	255.1	36.6
20°-30°	206.0	29.6
30°-40°	81.4	11.7
40°-50°	25.0	3.6
50°-60°	6.4	0.9
60°-70°	3.9	0.6
70°-80°	2.9	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°	575.7	82.7
0°-40°	657.1	94.4
0°-60°	688.6	98.9
0°-90°	696.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1240	1242	1243	1241	1238	115
15°	926	928	934	931	924	254
25°	422	442	476	450	430	196
35°	117	121	125	121	118	79
45°	30	30	31	31	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°	1283.5	1283.5	1283.5	1283.5	1283.5
2.5°	1267.5	1268.2	1269.3	1267.8	1264.1
5°	1240.2	1242.5	1243.2	1240.6	1237.6
7.5°	1195.4	1192.8	1195.0	1190.6	1186.8
10°	1122.2	1118.9	1117.8	1111.0	1111.0
12.5°	1031.9	1030.8	1031.5	1028.2	1022.9
15°	925.9	928.5	934.5	930.7	924.4
17.5°	813.5	817.2	822.5	821.3	812.7
20°	688.8	699.6	707.1	700.0	687.7
22.5°	546.9	570.1	589.1	574.2	554.0
25°	421.9	442.0	475.6	450.2	430.1
27.5°	319.9	334.5	365.1	340.1	326.3
30°	234.5	243.4	264.7	248.3	238.6
32.5°	167.6	174.0	182.9	173.2	168.4
35°	117.2	120.6	124.7	121.0	117.6
37.5°	82.5	83.6	86.6	83.6	82.1
40°	57.9	58.2	60.5	58.6	57.9
42.5°	41.8	41.8	42.9	42.2	41.8
45°	29.9	30.2	31.0	30.6	30.2
47.5°	21.3	22.0	22.0	22.4	20.9
50°	12.7	15.7	16.1	15.7	12.7
52.5°	6.7	9.3	11.6	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	3.4	3.7	3.7
72.5°	3.4	3.4	3.0	3.4	3.4
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)