

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: P315549

Luminaire Tested: **LDA2B05WFL8030D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315549  
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: LDA2B05WFL8030D010 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: 661.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

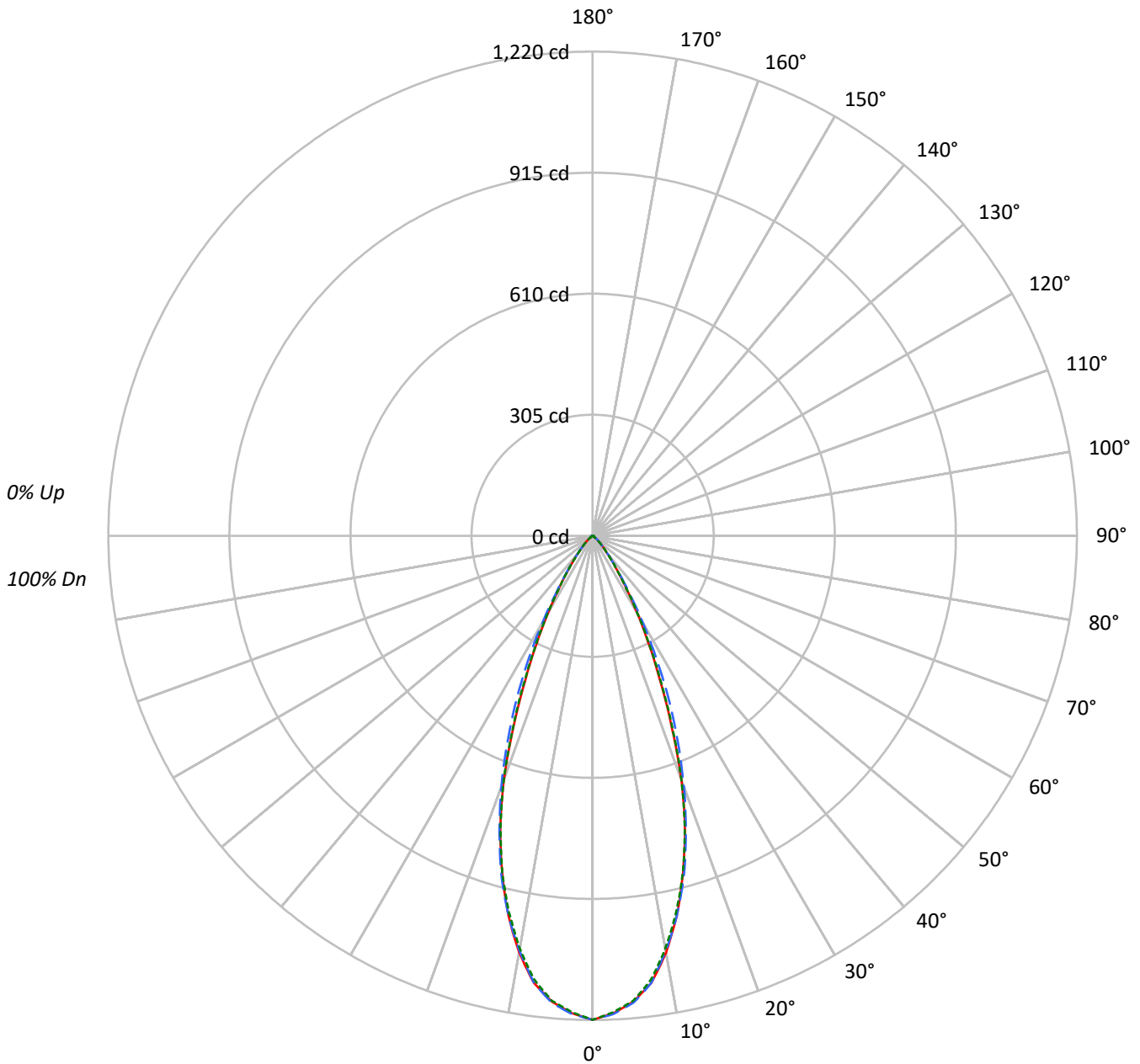
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	601704	601704	601704
5°	583598	584985	582360
10°	534187	532083	528877
15°	449321	453509	448606
20°	343629	352764	343051
25°	218181	245998	222427
30°	126926	143276	129148
35°	67094	71371	67275
40°	35422	37032	35422
45°	19815	20513	20025
50°	9287	11743	9287
55°	3355	6365	3699
60°	3848	3848	3848
65°	4086	4553	4086
70°	5049	4616	5049
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	16.5
10°-20°	242.4	36.6
20°-30°	195.8	29.6
30°-40°	77.4	11.7
40°-50°	23.8	3.6
50°-60°	6.1	0.9
60°-70°	3.7	0.6
70°-80°	2.7	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°	547.0	82.7
0°-40°	624.4	94.4
0°-60°	654.3	98.9
0°-90°	661.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1178	1180	1181	1179	1176	109
15°	880	882	888	884	878	242
25°	401	420	452	428	409	187
35°	111	115	118	115	112	75
45°	28	29	29	29	29	23
55°	4	5	7	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	1219.6	1219.6	1219.6	1219.6	1219.6
2.5°	1204.3	1205.0	1206.1	1204.7	1201.1
5°	1178.4	1180.5	1181.2	1178.8	1175.9
7.5°	1135.8	1133.4	1135.5	1131.2	1127.7
10°	1066.3	1063.1	1062.1	1055.7	1055.7
12.5°	980.5	979.4	980.1	976.9	972.0
15°	879.7	882.2	887.9	884.3	878.3
17.5°	773.0	776.5	781.5	780.4	772.2
20°	654.5	664.8	671.9	665.1	653.4
22.5°	519.7	541.7	559.8	545.6	526.4
25°	400.8	420.0	451.9	427.8	408.6
27.5°	304.0	317.8	346.9	323.2	310.0
30°	222.8	231.3	251.5	235.9	226.7
32.5°	159.3	165.3	173.8	164.6	160.0
35°	111.4	114.6	118.5	114.9	111.7
37.5°	78.4	79.5	82.3	79.5	78.0
40°	55.0	55.3	57.5	55.7	55.0
42.5°	39.7	39.7	40.8	40.1	39.7
45°	28.4	28.7	29.4	29.1	28.7
47.5°	20.2	20.9	20.9	21.3	19.9
50°	12.1	14.9	15.3	14.9	12.1
52.5°	6.4	8.9	11.0	8.9	6.4
55°	3.9	5.3	7.4	5.3	4.3
57.5°	3.9	3.9	5.0	4.3	3.9
60°	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.5	3.9	3.9	3.9	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.2	3.5	3.5
72.5°	3.2	3.2	2.8	3.2	3.2
75°	2.5	2.5	2.5	2.5	2.5
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.8	1.8	1.4	1.8	1.8
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)