

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: P315562

Luminaire Tested: **LDA2B05WFL8040D010 PINW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315562  
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 PINW1MW  
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**

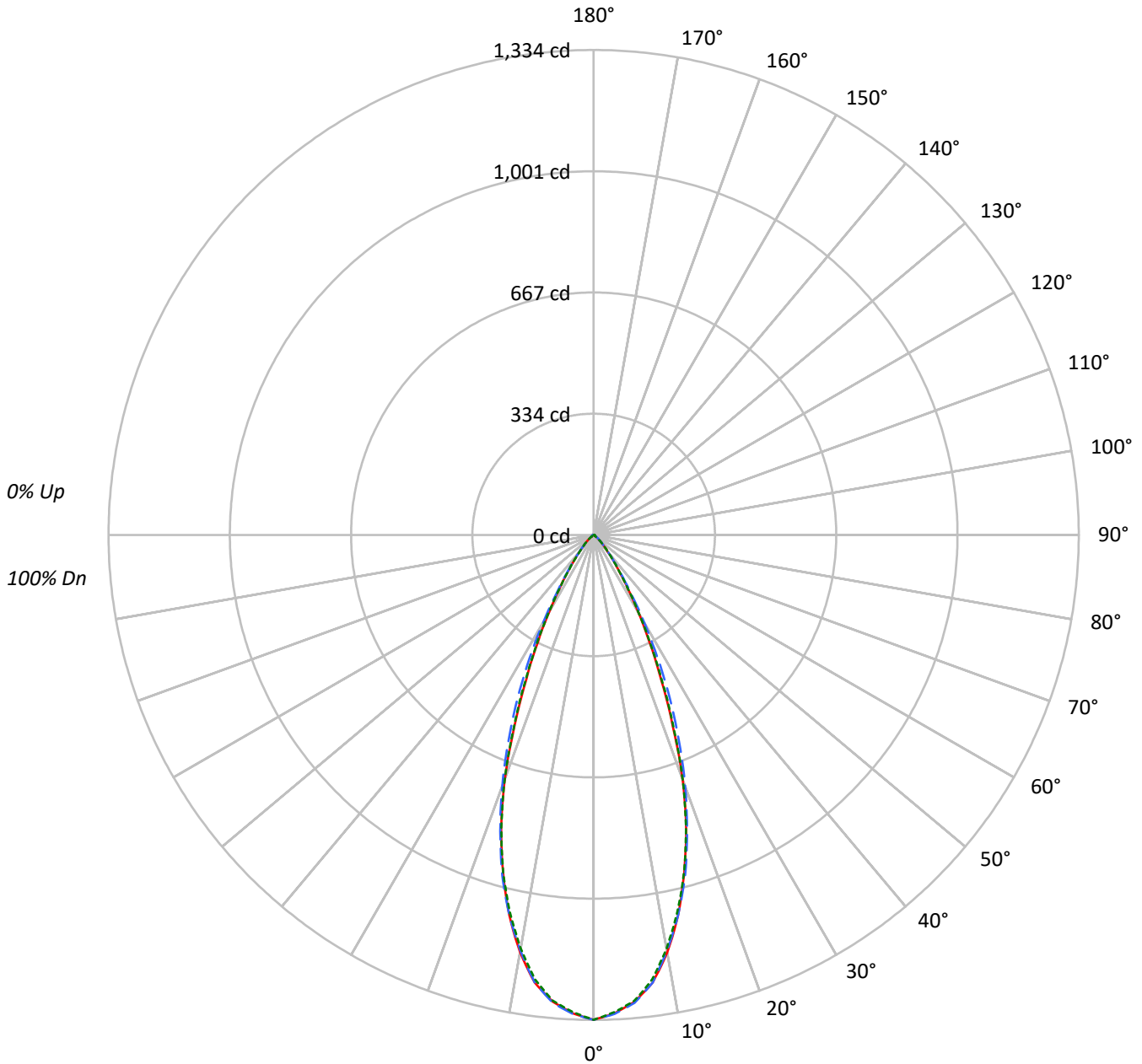
Lumens per Lamp: N/A  
Luminaire Lumens: 723.5 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	658095	658095	658095
5°	638323	639858	636986
10°	584284	581930	578423
15°	491459	496005	490642
20°	375813	385788	375235
25°	238649	269079	243331
30°	138832	156720	141225
35°	73358	78056	73599
40°	38707	40510	38707
45°	21629	22467	21908
50°	10131	12818	10131
55°	3699	6967	4043
60°	4243	4243	4243
65°	4553	5020	4553
70°	5626	5049	5626
75°	5147	5147	5147
80°	5398	4546	5398
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	16.5
10°-20°	265.1	36.6
20°-30°	214.1	29.6
30°-40°	84.6	11.7
40°-50°	26.0	3.6
50°-60°	6.7	0.9
60°-70°	4.1	0.6
70°-80°	3.0	0.4
80°-90°	0.9	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°	598.3	82.7
0°-40°	682.9	94.4
0°-60°	715.6	98.9
0°-90°	723.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	723.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1289	1291	1292	1289	1286	119
15°	962	965	971	967	961	264
25°	438	459	494	468	447	204
35°	122	125	130	126	122	82
45°	31	31	32	32	31	25
55°	4	6	8	6	5	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°	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1317.2	1318.0	1319.1	1317.6	1313.7
5°	1288.9	1291.2	1292.0	1289.3	1286.2
7.5°	1242.3	1239.6	1241.9	1237.3	1233.4
10°	1166.3	1162.8	1161.6	1154.6	1154.6
12.5°	1072.4	1071.2	1072.0	1068.5	1063.1
15°	962.2	964.9	971.1	967.2	960.6
17.5°	845.4	849.3	854.7	853.6	844.6
20°	715.8	727.1	734.8	727.5	714.7
22.5°	568.4	592.5	612.2	596.7	575.8
25°	438.4	459.4	494.3	467.9	447.0
27.5°	332.5	347.6	379.4	353.5	339.1
30°	243.7	253.0	275.1	258.0	247.9
32.5°	174.2	180.8	190.1	180.0	175.0
35°	121.8	125.3	129.6	125.7	122.2
37.5°	85.7	86.9	90.0	86.9	85.4
40°	60.1	60.5	62.9	60.9	60.1
42.5°	43.5	43.5	44.6	43.8	43.5
45°	31.0	31.4	32.2	31.8	31.4
47.5°	22.1	22.9	22.9	23.3	21.7
50°	13.2	16.3	16.7	16.3	13.2
52.5°	7.0	9.7	12.0	9.7	7.0
55°	4.3	5.8	8.1	5.8	4.7
57.5°	4.3	4.3	5.4	4.7	4.3
60°	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.9	4.3	4.3	4.3	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.1	3.5	3.5
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.6	1.9	1.9
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
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)