

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: P315699

Luminaire Tested: **LDA2B10WFL9730D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315699  
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: LDA2B10WFL9730D010 PIN1MW  
Description: PORTFOLIO 2IN ADJ 1000 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: 665.4 lumens  
Efficiency: N/A  
Efficacy: 66.5 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

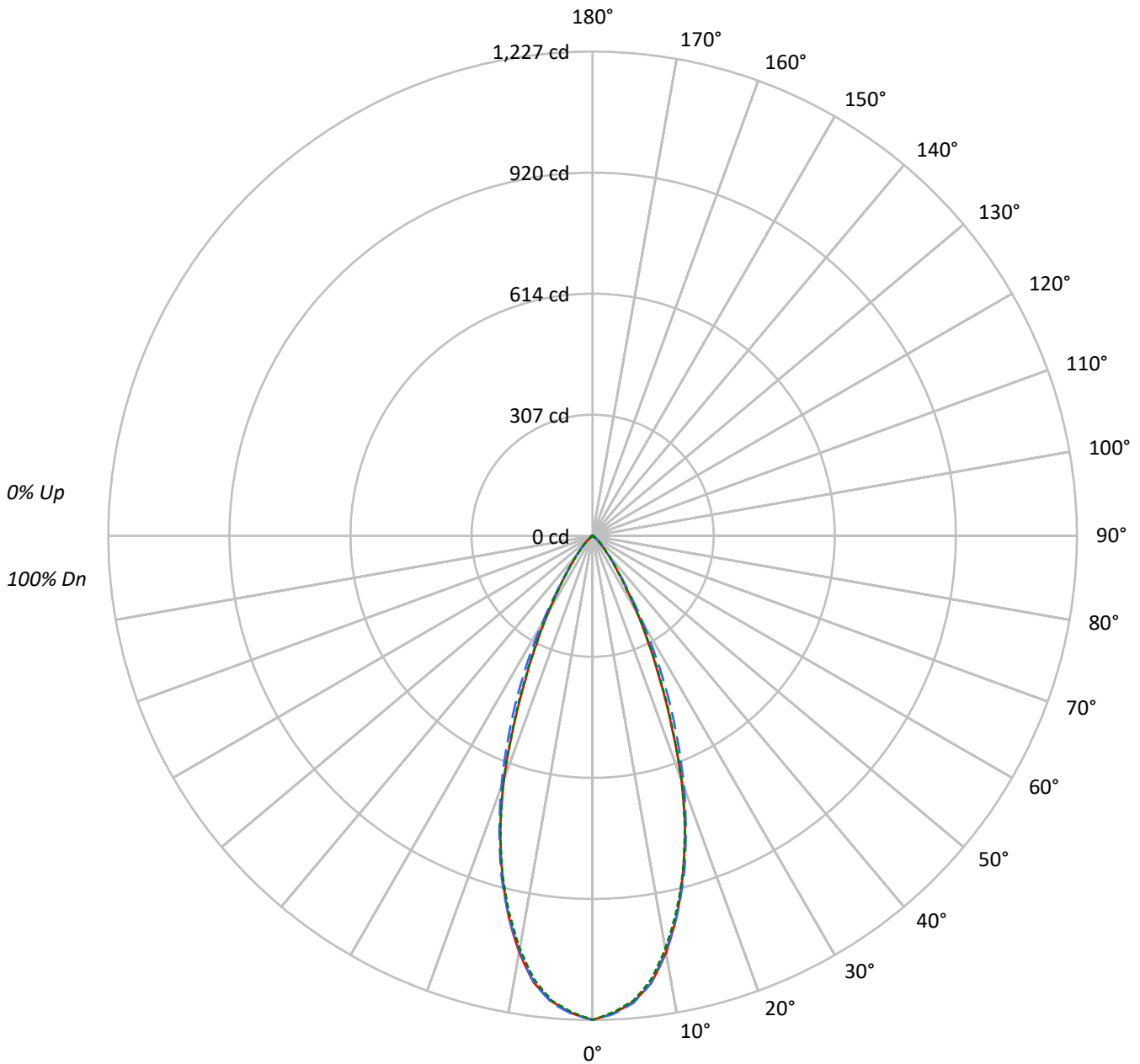
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	605207	605207	605207
5°	587015	588402	585777
10°	537293	535189	531933
15°	451977	456165	451210
20°	345624	354812	345046
25°	219488	247468	223734
30°	127666	144130	129888
35°	67456	71792	67697
40°	35615	37225	35615
45°	19885	20652	20164
50°	9287	11743	9287
55°	3355	6451	3699
60°	3848	3848	3848
65°	4203	4553	4203
70°	5193	4616	5193
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.5	16.5
10°-20°	243.8	36.6
20°-30°	196.9	29.6
30°-40°	77.8	11.7
40°-50°	23.9	3.6
50°-60°	6.2	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°	550.2	82.7
0°-40°	628.0	94.4
0°-60°	658.1	98.9
0°-90°	665.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1185	1187	1188	1186	1183	110
15°	885	887	893	890	883	243
25°	403	422	455	430	411	188
35°	112	115	119	116	112	75
45°	28	29	30	29	29	23
55°	4	5	8	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°	1226.7	1226.7	1226.7	1226.7	1226.7
2.5°	1211.3	1212.0	1213.1	1211.7	1208.1
5°	1185.3	1187.4	1188.1	1185.6	1182.8
7.5°	1142.5	1140.0	1142.1	1137.8	1134.3
10°	1072.5	1069.3	1068.3	1061.8	1061.8
12.5°	986.2	985.1	985.8	982.6	977.6
15°	884.9	887.4	893.1	889.5	883.4
17.5°	777.5	781.0	786.0	785.0	776.8
20°	658.3	668.6	675.8	669.0	657.2
22.5°	522.7	544.8	563.0	548.8	529.5
25°	403.2	422.5	454.6	430.3	411.0
27.5°	305.8	319.7	349.0	325.0	311.8
30°	224.1	232.6	253.0	237.3	228.0
32.5°	160.2	166.3	174.8	165.6	160.9
35°	112.0	115.2	119.2	115.6	112.4
37.5°	78.9	79.9	82.8	79.9	78.5
40°	55.3	55.7	57.8	56.0	55.3
42.5°	40.0	40.0	41.0	40.3	40.0
45°	28.5	28.9	29.6	29.3	28.9
47.5°	20.3	21.1	21.1	21.4	20.0
50°	12.1	15.0	15.3	15.0	12.1
52.5°	6.4	8.9	11.1	8.9	6.4
55°	3.9	5.4	7.5	5.4	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°	3.6	3.9	3.9	3.9	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.2	3.6	3.6
72.5°	3.2	3.2	2.9	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)