

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: P314781

Luminaire Tested: **LDA2B10SP9730D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B10SP9730D010 PIN1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

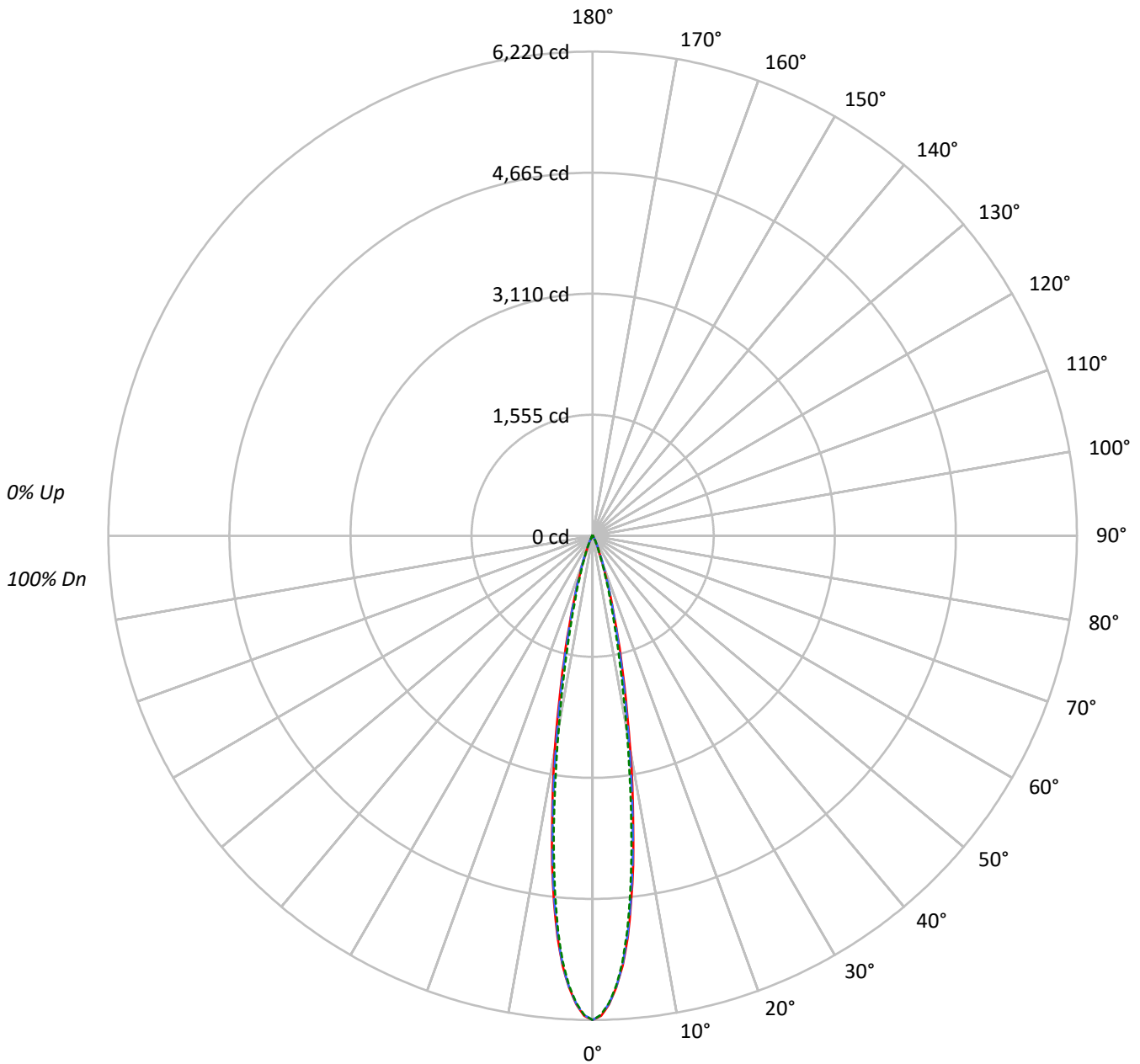
Lumens per Lamp: N/A  
Luminaire Lumens: 801.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95				95															
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93				93															
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91				91															
5	104	99	95	92	103	98	95	92	96	93	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	88	92	90	88	87				87															
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85				85															
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84				84															
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82				82															
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81				81															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3068957	3068957	3068957
5°	2563940	2551707	2521497
10°	1396912	1342507	1256590
15°	553823	539726	463316
20°	186069	198827	164333
25°	64562	69788	62003
30°	23585	25807	25237
35°	15178	17767	13491
40°	7986	9532	9789
45°	7326	5652	5303
50°	4375	2917	2226
55°	0	0	0
60°	2861	2861	987
65°	2218	584	0
70°	0	2019	2741
75°	0	4575	0
80°	0	0	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.7	50.8
10°-20°	302.7	37.8
20°-30°	66.9	8.4
30°-40°	14.9	1.9
40°-50°	6.1	0.8
50°-60°	1.0	0.1
60°-70°	1.1	0.1
70°-80°	0.8	0.1
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°	776.4	96.9
0°-40°	791.3	98.8
0°-60°	798.4	99.7
0°-90°	801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6220	6220	6220	6220	6220	
5°	5177	5156	5152	5133	5091	413
15°	1084	1081	1057	958	907	319
25°	119	132	128	119	114	65
35°	25	25	30	24	22	14
45°	10	9	8	8	8	6
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	1
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6220.5	6220.5	6220.5	6220.5	6220.5
1°	6169.5	6144.2	6156.6	6163.8	6153.3
2°	6025.6	5995.1	6014.7	6016.6	6006.1
3°	5811.2	5797.4	5803.6	5806.0	5785.0
4°	5536.8	5516.8	5521.1	5515.9	5490.1
5°	5177.1	5155.7	5152.4	5132.8	5091.4
6°	4737.4	4725.0	4702.6	4669.3	4614.0
7°	4266.2	4256.2	4217.6	4157.6	4093.8
8°	3749.8	3749.8	3694.1	3611.2	3538.3
9°	3261.0	3242.9	3171.9	3071.9	3001.4
10°	2788.4	2764.1	2679.8	2578.3	2508.3
11°	2341.1	2315.3	2234.4	2130.5	2065.7
12°	1954.7	1940.9	1878.0	1763.7	1698.9
13°	1628.4	1610.3	1555.0	1446.9	1391.6
14°	1344.0	1321.1	1276.8	1177.7	1123.8
15°	1084.3	1081.0	1056.7	958.1	907.1
16°	886.1	884.2	861.3	765.1	744.2
17°	711.3	721.3	714.6	626.0	602.2
18°	553.6	573.6	578.4	498.3	474.5
19°	445.4	464.5	472.6	402.6	382.6
20°	354.4	372.6	378.7	326.3	313.0
22.5°	201.0	225.3	226.3	199.1	185.3
25°	118.6	132.4	128.2	118.6	113.9
26°	99.6	112.9	106.2	103.4	99.6
27°	83.8	92.9	87.7	82.9	86.2
28°	69.6	75.7	70.5	71.9	66.7
29°	55.3	65.7	58.1	59.6	55.3
30°	41.4	51.0	45.3	47.6	44.3
32.5°	31.0	33.8	30.0	33.8	33.8
35°	25.2	25.2	29.5	23.8	22.4
37.5°	11.4	9.1	10.0	8.1	9.5
40°	12.4	13.8	14.8	12.4	15.2
42.5°	8.6	11.4	11.4	7.6	13.3
45°	10.5	8.6	8.1	8.1	7.6
47.5°	4.8	3.3	3.8	4.3	6.7
50°	5.7	2.4	3.8	5.7	2.9
52.5°	1.9	0.0	2.4	0.0	1.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.0	0.0
60°	2.9	3.3	2.9	1.9	1.0
62.5°	4.8	1.0	1.4	1.9	0.0
65°	1.9	1.0	0.5	0.0	0.0
67.5°	0.0	0.0	1.4	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.4	0.0	0.0
77.5°	1.0	0.0	1.9	0.0	0.0
80°	0.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	2.4	1.9	0.0
85°	0.0	0.5	0.5	1.4	0.0
87.5°	0.0	1.4	1.9	0.5	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	1.4	1.0	1.9
72.5°	0.0	0.5	1.9	2.9	1.0



(END OF REPORT)