

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: P314865

Luminaire Tested: **LDA2B20SP9730D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314865  
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: LDA2B20SP9730D010 PIN1MW  
Description: PORTFOLIO 2IN ADJ 2000 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: 1482.8 lumens  
Efficiency: N/A  
Efficacy: 72.0 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

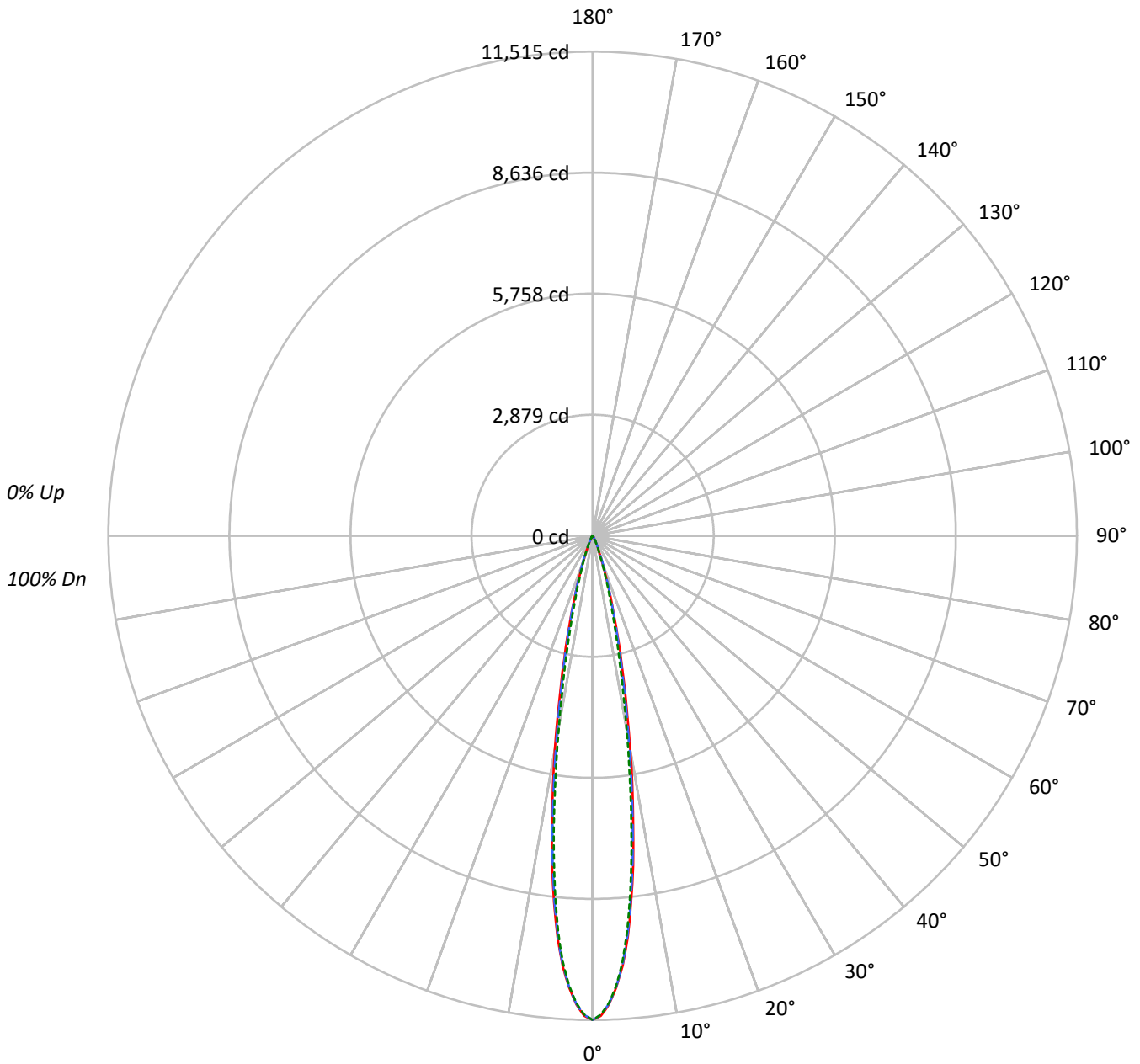
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	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°	5681061	5681061	5681061
5°	4746243	4723561	4667647
10°	2585921	2485175	2326116
15°	1025209	999109	857627
20°	344469	368095	304199
25°	119542	129123	114752
30°	43695	47740	46714
35°	28127	32945	24935
40°	14748	17582	18162
45°	13536	10466	9838
50°	8136	5449	4068
55°	0	0	0
60°	5230	5230	1776
65°	4086	1051	0
70°	0	3750	5049
75°	0	8387	0
80°	0	0	0
85°	0	5095	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.9	50.8
10°-20°	560.4	37.8
20°-30°	123.9	8.4
30°-40°	27.5	1.9
40°-50°	11.3	0.8
50°-60°	1.9	0.1
60°-70°	1.9	0.1
70°-80°	1.5	0.1
80°-90°	1.4	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°	1437.2	96.9
0°-40°	1464.7	98.8
0°-60°	1477.9	99.7
0°-90°	1482.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11515	11515	11515	11515	11515	
5°	9584	9544	9538	9502	9425	764
15°	2007	2001	1956	1774	1679	590
25°	220	245	237	220	211	120
35°	47	47	55	44	41	27
45°	19	16	15	15	14	12
55°	0	0	0	0	0	3
65°	4	2	1	0	0	4
75°	0	0	4	0	0	1
85°	0	1	1	3	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11515.0	11515.0	11515.0	11515.0	11515.0
1°	11420.6	11373.9	11396.8	11410.0	11390.6
2°	11154.3	11097.8	11134.0	11137.5	11118.1
3°	10757.4	10731.8	10743.3	10747.7	10708.9
4°	10249.4	10212.4	10220.3	10210.6	10163.0
5°	9583.6	9543.9	9537.8	9501.6	9424.9
6°	8769.6	8746.7	8705.2	8643.5	8541.2
7°	7897.4	7878.9	7807.5	7696.3	7578.2
8°	6941.4	6941.4	6838.3	6684.8	6549.9
9°	6036.6	6003.1	5871.7	5686.5	5556.0
10°	5161.8	5116.8	4960.7	4772.8	4643.2
11°	4333.7	4286.0	4136.1	3943.9	3823.9
12°	3618.4	3592.9	3476.5	3264.8	3144.9
13°	3014.3	2980.8	2878.5	2678.3	2576.0
14°	2487.8	2445.5	2363.5	2180.1	2080.4
15°	2007.2	2001.0	1956.1	1773.5	1679.1
16°	1640.3	1636.8	1594.5	1416.3	1377.5
17°	1316.7	1335.2	1322.9	1158.8	1114.7
18°	1024.8	1061.8	1070.6	922.5	878.4
19°	824.6	859.9	874.8	745.2	708.2
20°	656.1	689.6	701.1	604.1	579.4
22.5°	372.2	417.1	418.9	368.6	343.1
25°	219.6	245.2	237.2	219.6	210.8
26°	184.3	209.0	196.7	191.4	184.3
27°	155.2	172.0	162.3	153.5	159.6
28°	128.8	140.2	130.5	133.2	123.5
29°	102.3	121.7	107.6	110.2	102.3
30°	76.7	94.4	83.8	88.2	82.0
32.5°	57.3	62.6	55.6	62.6	62.6
35°	46.7	46.7	54.7	44.1	41.4
37.5°	21.2	16.8	18.5	15.0	17.6
40°	22.9	25.6	27.3	22.9	28.2
42.5°	15.9	21.2	21.2	14.1	24.7
45°	19.4	15.9	15.0	15.0	14.1
47.5°	8.8	6.2	7.1	7.9	12.3
50°	10.6	4.4	7.1	10.6	5.3
52.5°	3.5	0.0	4.4	0.0	1.8
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.9	1.8	0.0
60°	5.3	6.2	5.3	3.5	1.8
62.5°	8.8	1.8	2.6	3.5	0.0
65°	3.5	1.8	0.9	0.0	0.0
67.5°	0.0	0.0	2.6	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	4.4	0.0	0.0
77.5°	1.8	0.0	3.5	0.0	0.0
80°	0.0	1.8	0.0	0.0	0.0
82.5°	0.0	0.0	4.4	3.5	0.0
85°	0.0	0.9	0.9	2.6	0.0
87.5°	0.0	2.6	3.5	0.9	1.8
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	2.6	1.8	3.5
72.5°	0.0	0.9	3.5	5.3	1.8



(END OF REPORT)