

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: P314765

Luminaire Tested: **LDA2B10SP9027D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314765  
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: LDA2B10SP9027D010 PIN1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
Adj PinHole, Black oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 836.5 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

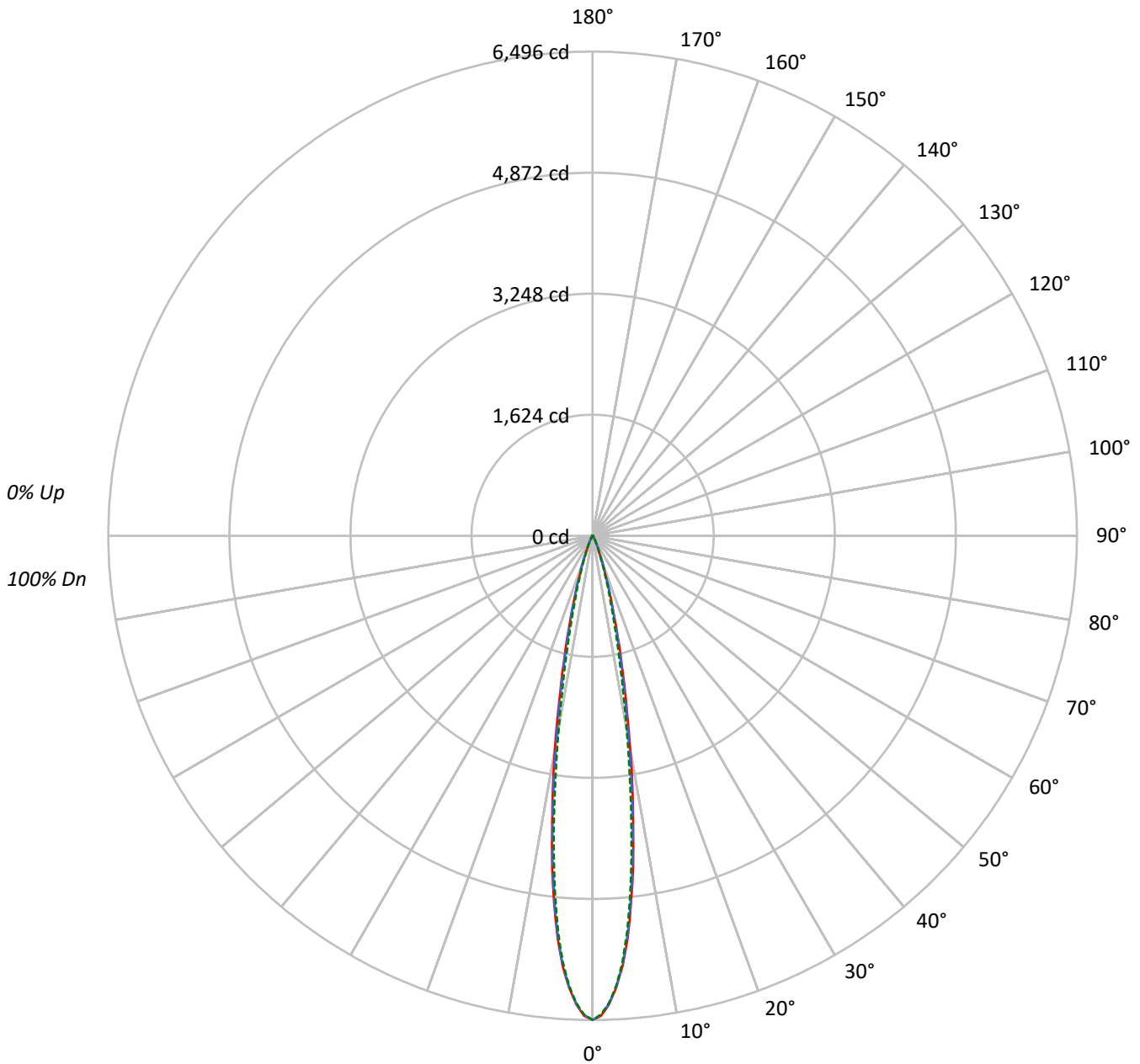
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3204730	3204730	3204730
5°	2677401	2664623	2633076
10°	1458732	1401922	1312198
15°	578340	563579	483797
20°	194312	207647	171631
25°	67447	72836	64725
30°	24667	26946	26376
35°	15900	18550	14093
40°	8308	9918	10240
45°	7605	5931	5582
50°	4605	3070	2303
55°	0	0	0
60°	2960	2960	987
65°	2335	584	0
70°	0	2164	2885
75°	0	4766	0
80°	0	0	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.7	50.8
10°-20°	316.1	37.8
20°-30°	69.9	8.4
30°-40°	15.5	1.9
40°-50°	6.4	0.8
50°-60°	1.1	0.1
60°-70°	1.1	0.1
70°-80°	0.9	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°	810.7	96.9
0°-40°	826.3	98.8
0°-60°	833.7	99.7
0°-90°	836.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6496	6496	6496	6496	6496	
5°	5406	5384	5380	5360	5317	431
15°	1132	1129	1103	1000	947	333
25°	124	138	134	124	119	67
35°	26	26	31	25	23	15
45°	11	9	8	8	8	7
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	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6495.7	6495.7	6495.7	6495.7	6495.7
1°	6442.5	6416.1	6429.1	6436.5	6425.6
2°	6292.3	6260.4	6280.8	6282.8	6271.9
3°	6068.4	6054.0	6060.4	6062.9	6041.0
4°	5781.8	5760.9	5765.4	5759.9	5733.1
5°	5406.2	5383.8	5380.4	5360.0	5316.7
6°	4947.0	4934.1	4910.7	4875.9	4818.2
7°	4455.0	4444.6	4404.3	4341.6	4274.9
8°	3915.8	3915.8	3857.5	3771.0	3694.9
9°	3405.3	3386.4	3312.3	3207.8	3134.2
10°	2911.8	2886.4	2798.4	2692.4	2619.3
11°	2444.7	2417.8	2333.2	2224.8	2157.1
12°	2041.2	2026.8	1961.1	1841.7	1774.1
13°	1700.4	1681.5	1623.8	1510.9	1453.2
14°	1403.4	1379.5	1333.3	1229.8	1173.6
15°	1132.3	1128.8	1103.4	1000.5	947.2
16°	925.3	923.3	899.5	799.0	777.1
17°	742.8	753.2	746.2	653.7	628.8
18°	578.1	599.0	604.0	520.4	495.5
19°	465.2	485.1	493.5	420.4	399.5
20°	370.1	389.0	395.5	340.8	326.9
22.5°	209.9	235.3	236.3	208.0	193.5
25°	123.9	138.3	133.8	123.9	118.9
26°	104.0	117.9	110.9	108.0	104.0
27°	87.6	97.0	91.5	86.6	90.0
28°	72.6	79.1	73.6	75.1	69.6
29°	57.7	68.7	60.7	62.2	57.7
30°	43.3	53.2	47.3	49.7	46.3
32.5°	32.3	35.3	31.3	35.3	35.3
35°	26.4	26.4	30.8	24.9	23.4
37.5°	11.9	9.5	10.4	8.5	9.9
40°	12.9	14.4	15.4	12.9	15.9
42.5°	9.0	11.9	11.9	8.0	13.9
45°	10.9	9.0	8.5	8.5	8.0
47.5°	5.0	3.5	4.0	4.5	7.0
50°	6.0	2.5	4.0	6.0	3.0
52.5°	2.0	0.0	2.5	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°	3.0	3.5	3.0	2.0	1.0
62.5°	5.0	1.0	1.5	2.0	0.0
65°	2.0	1.0	0.5	0.0	0.0
67.5°	0.0	0.0	1.5	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.5	0.0	0.0
77.5°	1.0	0.0	2.0	0.0	0.0
80°	0.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	2.5	2.0	0.0
85°	0.0	0.5	0.5	1.5	0.0
87.5°	0.0	1.5	2.0	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	1.5	1.0	2.0
72.5°	0.0	0.5	2.0	3.0	1.0



(END OF REPORT)