

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: P314750

Luminaire Tested: **LDA2B10SP8030D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314750  
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: LDA2B10SP8030D010 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: 1081.9 lumens  
Efficiency: N/A  
Efficacy: 108.2 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

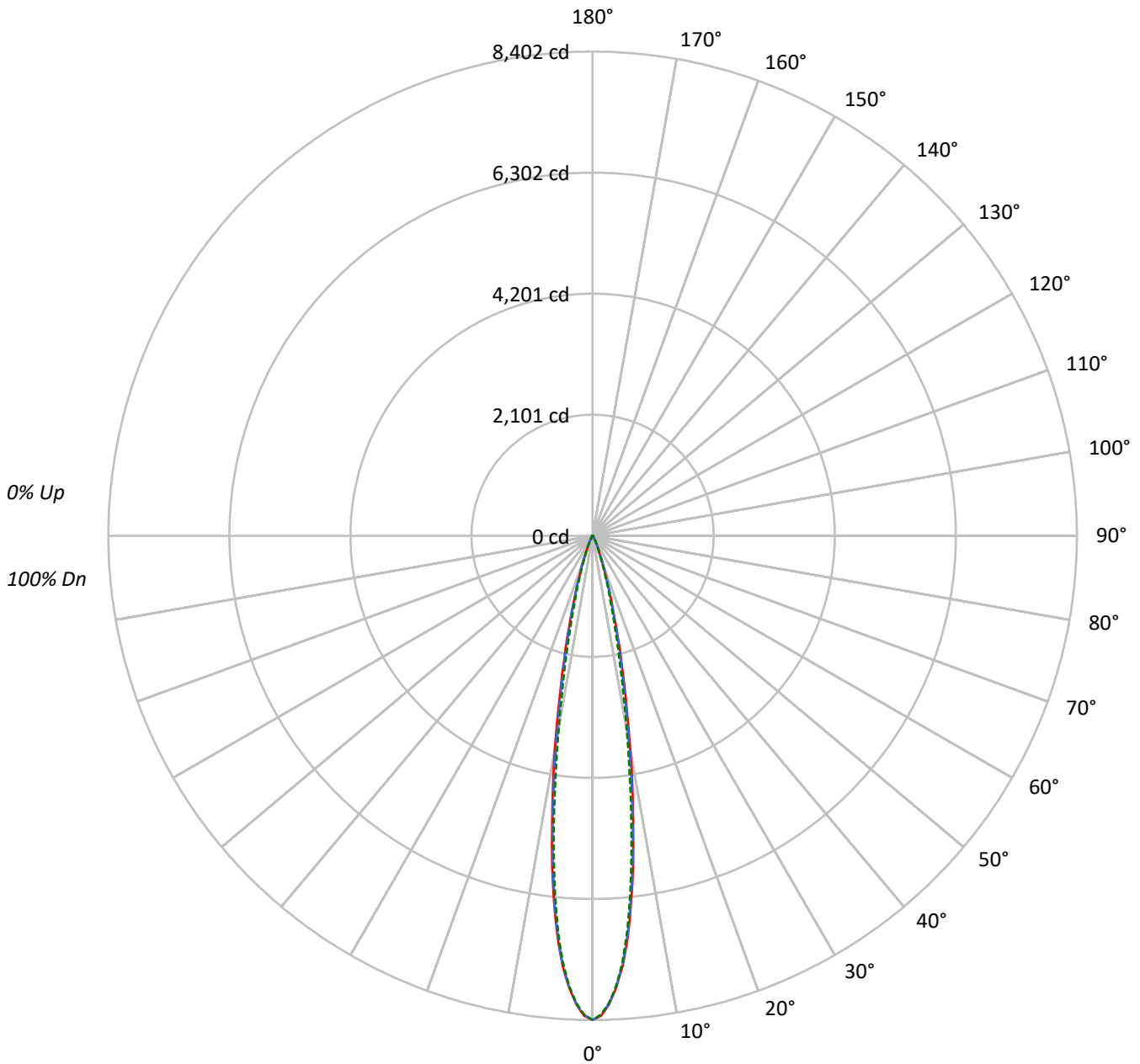
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4145127	4145127	4145127
5°	3463060	3446518	3405710
10°	1886763	1813271	1697245
15°	748016	728965	625790
20°	251329	268603	221980
25°	87207	94229	83723
30°	31902	34808	34067
35°	20538	24031	18189
40°	10755	12816	13267
45°	9908	7605	7187
50°	5910	3914	2993
55°	0	0	0
60°	3848	3848	1283
65°	3035	700	0
70°	0	2741	3750
75°	0	6100	0
80°	0	0	0
85°	0	3396	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.3	50.8
10°-20°	408.9	37.8
20°-30°	90.4	8.4
30°-40°	20.1	1.9
40°-50°	8.2	0.8
50°-60°	1.4	0.1
60°-70°	1.4	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	1048.6	96.9
0°-40°	1068.7	98.8
0°-60°	1078.3	99.7
0°-90°	1081.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8402	8402	8402	8402	8402	
5°	6993	6964	6959	6933	6877	557
15°	1464	1460	1427	1294	1225	431
25°	160	179	173	160	154	87
35°	34	34	40	32	30	19
45°	14	12	11	11	10	8
55°	0	0	0	0	0	2
65°	3	1	1	0	0	3
75°	0	0	3	0	0	1
85°	0	1	1	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8401.8	8401.8	8401.8	8401.8	8401.8
1°	8333.0	8298.9	8315.6	8325.2	8311.1
2°	8138.6	8097.5	8123.8	8126.4	8112.3
3°	7849.1	7830.4	7838.8	7842.0	7813.7
4°	7478.4	7451.4	7457.2	7450.1	7415.4
5°	6992.6	6963.7	6959.2	6932.8	6876.8
6°	6398.7	6382.0	6351.7	6306.7	6232.0
7°	5762.3	5748.8	5696.7	5615.6	5529.4
8°	5064.8	5064.8	4989.5	4877.5	4779.1
9°	4404.6	4380.1	4284.2	4149.1	4053.9
10°	3766.2	3733.4	3619.5	3482.5	3387.9
11°	3162.0	3127.3	3017.9	2877.6	2790.1
12°	2640.2	2621.5	2536.6	2382.1	2294.6
13°	2199.4	2174.9	2100.3	1954.2	1879.6
14°	1815.2	1784.3	1724.5	1590.7	1518.0
15°	1464.5	1460.0	1427.2	1294.0	1225.2
16°	1196.9	1194.3	1163.4	1033.4	1005.1
17°	960.7	974.2	965.2	845.5	813.3
18°	747.7	774.7	781.2	673.1	640.9
19°	601.6	627.4	638.3	543.7	516.7
20°	478.7	503.2	511.6	440.8	422.8
22.5°	271.5	304.4	305.6	269.0	250.3
25°	160.2	178.9	173.1	160.2	153.8
26°	134.5	152.5	143.5	139.6	134.5
27°	113.3	125.5	118.4	112.0	116.5
28°	93.9	102.3	95.2	97.2	90.1
29°	74.6	88.8	78.5	80.4	74.6
30°	56.0	68.9	61.1	64.3	59.8
32.5°	41.8	45.7	40.5	45.7	45.7
35°	34.1	34.1	39.9	32.2	30.2
37.5°	15.4	12.2	13.5	10.9	12.9
40°	16.7	18.7	19.9	16.7	20.6
42.5°	11.6	15.4	15.4	10.3	18.0
45°	14.2	11.6	10.9	10.9	10.3
47.5°	6.4	4.5	5.1	5.8	9.0
50°	7.7	3.2	5.1	7.7	3.9
52.5°	2.6	0.0	3.2	0.0	1.3
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.6	1.3	0.0
60°	3.9	4.5	3.9	2.6	1.3
62.5°	6.4	1.3	1.9	2.6	0.0
65°	2.6	1.3	0.6	0.0	0.0
67.5°	0.0	0.0	1.9	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.2	0.0	0.0
77.5°	1.3	0.0	2.6	0.0	0.0
80°	0.0	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	3.2	2.6	0.0
85°	0.0	0.6	0.6	1.9	0.0
87.5°	0.0	1.9	2.6	0.6	1.3
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	1.9	1.3	2.6
72.5°	0.0	0.6	2.6	3.9	1.3



(END OF REPORT)