

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: P314751

Luminaire Tested: **LDA2B10SP8035D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314751  
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: LDA2B10SP8035D010 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**

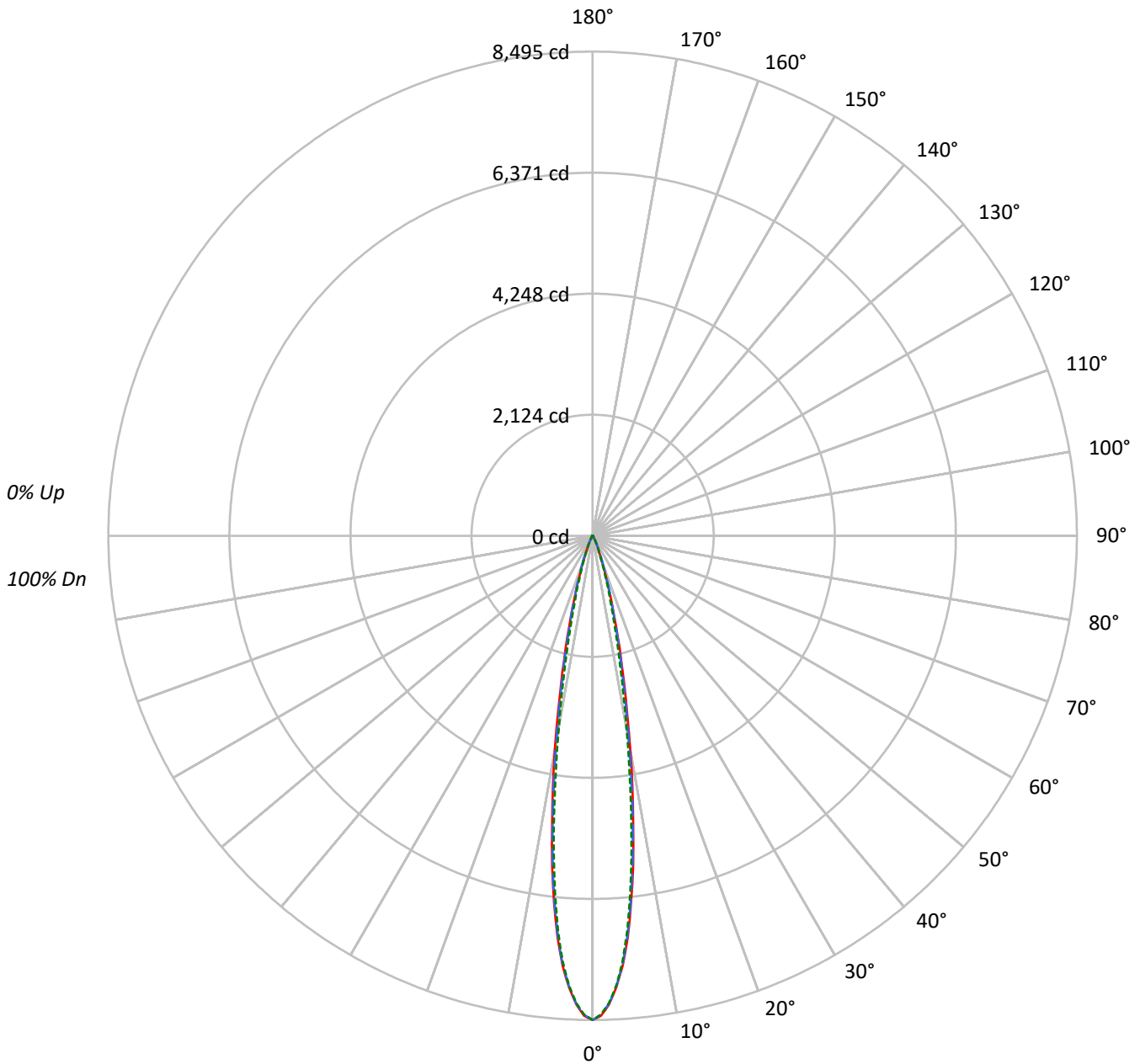
Lumens per Lamp: N/A  
Luminaire Lumens: 1094.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	4191108	4191108	4191108
5°	3501491	3484751	3443497
10°	1907704	1833410	1716082
15°	756342	737086	632737
20°	254164	271543	224448
25°	88187	95264	84649
30°	32244	35207	34466
35°	20779	24272	18430
40°	10884	13010	13396
45°	9977	7745	7256
50°	5987	3991	2993
55°	0	0	0
60°	3848	3848	1283
65°	3035	817	0
70°	0	2885	3750
75°	0	6290	0
80°	0	0	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.4	50.8
10°-20°	413.4	37.8
20°-30°	91.4	8.4
30°-40°	20.3	1.9
40°-50°	8.3	0.8
50°-60°	1.4	0.1
60°-70°	1.4	0.1
70°-80°	1.1	0.1
80°-90°	1.1	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°	1060.3	96.9
0°-40°	1080.6	98.8
0°-60°	1090.3	99.7
0°-90°	1094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8495	8495	8495	8495	8495	
5°	7070	7041	7036	7010	6953	564
15°	1481	1476	1443	1308	1239	435
25°	162	181	175	162	156	88
35°	34	34	40	32	31	20
45°	14	12	11	11	10	9
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°	8495.0	8495.0	8495.0	8495.0	8495.0
1°	8425.4	8390.9	8407.9	8417.6	8403.3
2°	8228.9	8187.3	8214.0	8216.6	8202.3
3°	7936.2	7917.3	7925.8	7929.0	7900.4
4°	7561.4	7534.1	7539.9	7532.8	7497.7
5°	7070.2	7040.9	7036.4	7009.7	6953.1
6°	6469.7	6452.8	6422.2	6376.7	6301.2
7°	5826.2	5812.6	5759.9	5677.9	5590.7
8°	5121.0	5121.0	5044.8	4931.6	4832.1
9°	4453.4	4428.7	4331.8	4195.1	4098.9
10°	3808.0	3774.9	3659.7	3521.1	3425.5
11°	3197.1	3162.0	3051.4	2909.5	2821.1
12°	2669.5	2650.6	2564.7	2408.6	2320.1
13°	2223.8	2199.1	2123.6	1975.9	1900.4
14°	1835.4	1804.1	1743.6	1608.3	1534.8
15°	1480.8	1476.2	1443.1	1308.4	1238.8
16°	1210.1	1207.5	1176.3	1044.9	1016.3
17°	971.4	985.0	975.9	854.9	822.4
18°	756.0	783.3	789.8	680.5	648.0
19°	608.3	634.3	645.4	549.8	522.4
20°	484.1	508.8	517.2	445.7	427.5
22.5°	274.6	307.7	309.0	272.0	253.1
25°	162.0	180.9	175.0	162.0	155.5
26°	136.0	154.2	145.1	141.2	136.0
27°	114.5	126.9	119.7	113.2	117.8
28°	95.0	103.4	96.3	98.2	91.1
29°	75.5	89.8	79.4	81.3	75.5
30°	56.6	69.6	61.8	65.1	60.5
32.5°	42.3	46.2	41.0	46.2	46.2
35°	34.5	34.5	40.3	32.5	30.6
37.5°	15.6	12.4	13.7	11.1	13.0
40°	16.9	18.9	20.2	16.9	20.8
42.5°	11.7	15.6	15.6	10.4	18.2
45°	14.3	11.7	11.1	11.1	10.4
47.5°	6.5	4.6	5.2	5.9	9.1
50°	7.8	3.3	5.2	7.8	3.9
52.5°	2.6	0.0	3.3	0.0	1.3
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.7	1.3	0.0
60°	3.9	4.6	3.9	2.6	1.3
62.5°	6.5	1.3	2.0	2.6	0.0
65°	2.6	1.3	0.7	0.0	0.0
67.5°	0.0	0.0	2.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.3	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	3.3	2.6	0.0
85°	0.0	0.7	0.7	2.0	0.0
87.5°	0.0	2.0	2.6	0.7	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	2.0	1.3	2.6
72.5°	0.0	0.7	2.6	3.9	1.3



(END OF REPORT)