

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: P314755

Luminaire Tested: **LDA2B10SP8040D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314755  
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: LDA2B10SP8040D010 PIN1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj PinHole, Black oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

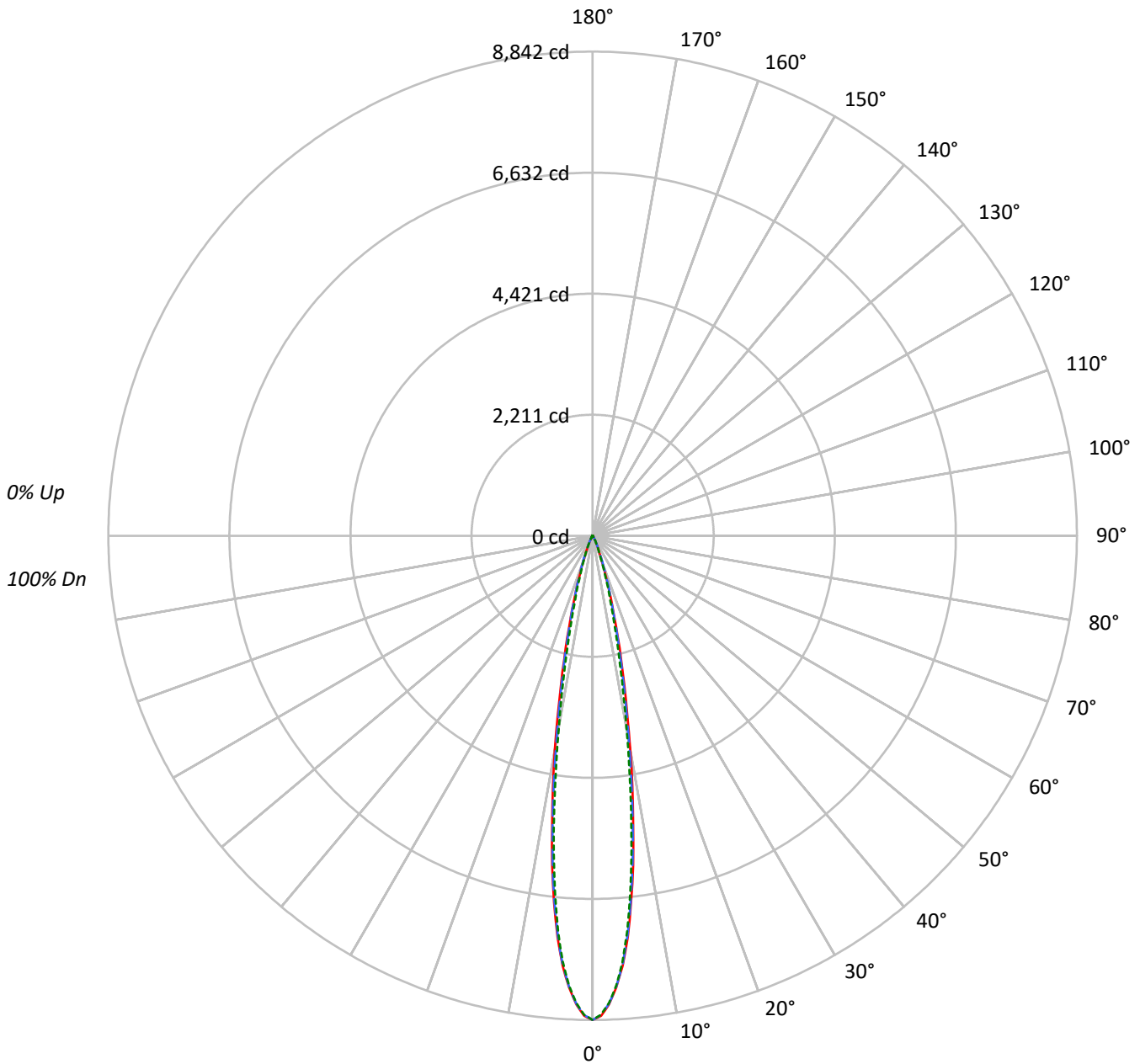
Lumens per Lamp: N/A  
Luminaire Lumens: 1138.7 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	4362552	4362552	4362552
5°	3644716	3627283	3584345
10°	1985756	1908405	1786268
15°	787294	767221	658581
20°	264560	282673	233583
25°	91780	99183	88133
30°	33554	36631	35890
35°	21622	25296	19153
40°	11335	13525	13976
45°	10396	8024	7535
50°	6217	4145	3147
55°	0	0	0
60°	4046	4046	1381
65°	3152	817	0
70°	0	2885	3895
75°	0	6481	0
80°	0	0	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.1	50.8
10°-20°	430.3	37.8
20°-30°	95.2	8.4
30°-40°	21.2	1.9
40°-50°	8.6	0.8
50°-60°	1.4	0.1
60°-70°	1.5	0.1
70°-80°	1.2	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°	1103.6	96.9
0°-40°	1124.8	98.8
0°-60°	1134.9	99.7
0°-90°	1138.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8842	8842	8842	8842	8842	
5°	7359	7329	7324	7296	7238	587
15°	1541	1537	1502	1362	1289	453
25°	169	188	182	169	162	92
35°	36	36	42	34	32	21
45°	15	12	12	12	11	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°	8842.5	8842.5	8842.5	8842.5	8842.5
1°	8770.0	8734.1	8751.8	8761.9	8747.0
2°	8565.5	8522.2	8549.9	8552.7	8537.8
3°	8260.8	8241.1	8249.9	8253.3	8223.5
4°	7870.7	7842.2	7848.3	7840.9	7804.3
5°	7359.4	7328.9	7324.2	7296.4	7237.5
6°	6734.3	6716.7	6684.9	6637.5	6558.9
7°	6064.5	6050.3	5995.5	5910.1	5819.4
8°	5330.4	5330.4	5251.2	5133.4	5029.7
9°	4635.6	4609.9	4509.0	4366.7	4266.5
10°	3963.8	3929.2	3809.4	3665.1	3565.6
11°	3327.9	3291.3	3176.2	3028.5	2936.4
12°	2778.6	2759.0	2669.6	2507.1	2415.0
13°	2314.7	2289.0	2210.5	2056.7	1978.2
14°	1910.4	1877.9	1815.0	1674.1	1597.6
15°	1541.4	1536.6	1502.1	1361.9	1289.4
16°	1259.6	1256.9	1224.4	1087.6	1057.8
17°	1011.1	1025.3	1015.8	889.9	856.0
18°	786.9	815.4	822.1	708.4	674.5
19°	633.2	660.3	671.8	572.3	543.8
20°	503.9	529.6	538.4	463.9	444.9
22.5°	285.8	320.3	321.7	283.1	263.4
25°	168.6	188.3	182.2	168.6	161.9
26°	141.5	160.5	151.0	147.0	141.5
27°	119.2	132.1	124.6	117.8	122.6
28°	98.9	107.7	100.2	102.3	94.8
29°	78.6	93.5	82.6	84.7	78.6
30°	58.9	72.5	64.3	67.7	63.0
32.5°	44.0	48.1	42.7	48.1	48.1
35°	35.9	35.9	42.0	33.9	31.8
37.5°	16.3	12.9	14.2	11.5	13.5
40°	17.6	19.6	21.0	17.6	21.7
42.5°	12.2	16.3	16.3	10.8	19.0
45°	14.9	12.2	11.5	11.5	10.8
47.5°	6.8	4.7	5.4	6.1	9.5
50°	8.1	3.4	5.4	8.1	4.1
52.5°	2.7	0.0	3.4	0.0	1.4
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.7	1.4	0.0
60°	4.1	4.7	4.1	2.7	1.4
62.5°	6.8	1.4	2.0	2.7	0.0
65°	2.7	1.4	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	3.4	0.0	0.0
77.5°	1.4	0.0	2.7	0.0	0.0
80°	0.0	1.4	0.0	0.0	0.0
82.5°	0.0	0.0	3.4	2.7	0.0
85°	0.0	0.7	0.7	2.0	0.0
87.5°	0.0	2.0	2.7	0.7	1.4
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	1.4	2.7
72.5°	0.0	0.7	2.7	4.1	1.4



(END OF REPORT)