

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: P314758

Luminaire Tested: **LDA2B10SP8050D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314758  
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: LDA2B10SP8050D010 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: 1131.2 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

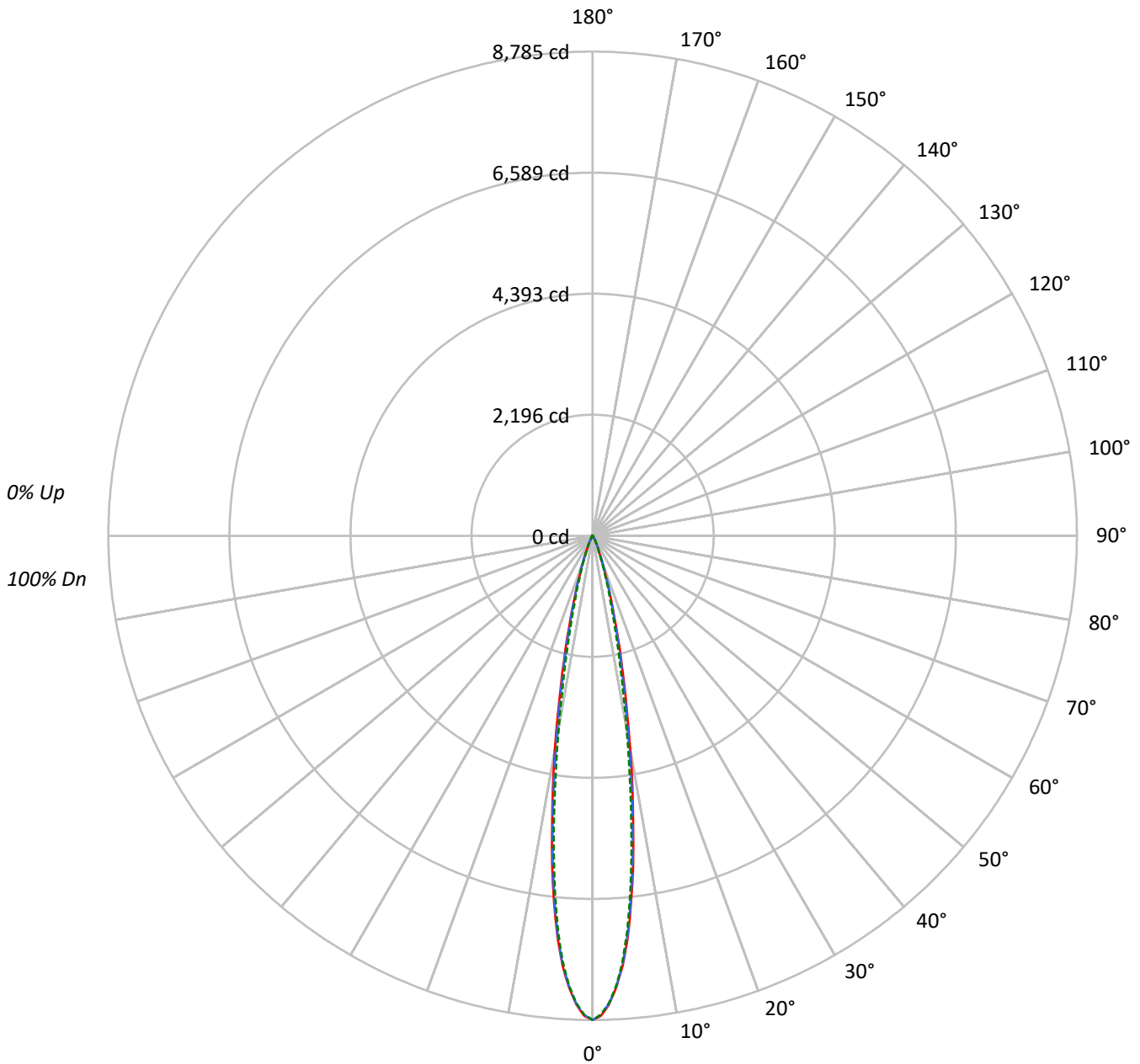
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4334134	4334134	4334134
5°	3620944	3603611	3560970
10°	1972780	1895931	1774596
15°	782136	762216	654291
20°	262827	280836	232061
25°	91181	98530	87534
30°	33327	36403	35662
35°	21502	25115	19032
40°	11271	13460	13847
45°	10326	7954	7535
50°	6217	4145	3070
55°	0	0	0
60°	3947	3947	1283
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°	574.4	50.8
10°-20°	427.5	37.8
20°-30°	94.5	8.4
30°-40°	21.0	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°	1096.4	96.9
0°-40°	1117.5	98.8
0°-60°	1127.5	99.7
0°-90°	1131.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8785	8785	8785	8785	8785	
5°	7311	7281	7276	7249	7190	583
15°	1531	1527	1492	1353	1281	450
25°	168	187	181	168	161	91
35°	36	36	42	34	32	20
45°	15	12	11	11	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°	8784.9	8784.9	8784.9	8784.9	8784.9
1°	8712.9	8677.2	8694.7	8704.8	8690.0
2°	8509.7	8466.6	8494.2	8496.9	8482.1
3°	8206.9	8187.4	8196.1	8199.5	8169.9
4°	7819.4	7791.1	7797.2	7789.8	7753.4
5°	7311.4	7281.1	7276.4	7248.8	7190.3
6°	6690.4	6672.9	6641.3	6594.2	6516.1
7°	6025.0	6010.9	5956.4	5871.6	5781.4
8°	5295.7	5295.7	5217.0	5099.9	4996.9
9°	4605.4	4579.8	4479.6	4338.3	4238.7
10°	3937.9	3903.6	3784.5	3641.2	3542.3
11°	3306.2	3269.8	3155.5	3008.8	2917.3
12°	2760.5	2741.0	2652.2	2490.7	2399.2
13°	2299.7	2274.1	2196.0	2043.3	1965.3
14°	1898.0	1865.7	1803.1	1663.2	1587.2
15°	1531.3	1526.6	1492.3	1353.0	1281.0
16°	1251.4	1248.7	1216.4	1080.5	1050.9
17°	1004.5	1018.6	1009.2	884.1	850.4
18°	781.8	810.1	816.8	703.8	670.1
19°	629.1	656.0	667.4	568.5	540.3
20°	500.6	526.1	534.9	460.9	442.0
22.5°	283.9	318.2	319.6	281.2	261.7
25°	167.5	187.0	181.0	167.5	160.8
26°	140.6	159.5	150.0	146.0	140.6
27°	118.4	131.2	123.8	117.1	121.8
28°	98.2	107.0	99.6	101.6	94.2
29°	78.0	92.8	82.1	84.1	78.0
30°	58.5	72.0	63.9	67.3	62.6
32.5°	43.7	47.8	42.4	47.8	47.8
35°	35.7	35.7	41.7	33.6	31.6
37.5°	16.1	12.8	14.1	11.4	13.5
40°	17.5	19.5	20.9	17.5	21.5
42.5°	12.1	16.1	16.1	10.8	18.8
45°	14.8	12.1	11.4	11.4	10.8
47.5°	6.7	4.7	5.4	6.1	9.4
50°	8.1	3.4	5.4	8.1	4.0
52.5°	2.7	0.0	3.4	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°	4.0	4.7	4.0	2.7	1.3
62.5°	6.7	1.3	2.0	2.7	0.0
65°	2.7	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	3.4	0.0	0.0
77.5°	1.3	0.0	2.7	0.0	0.0
80°	0.0	1.3	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	1.3
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	2.7
72.5°	0.0	0.7	2.7	4.0	1.3



(END OF REPORT)