

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: P314766

Luminaire Tested: **LDA2B10SP9030D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314766  
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: LDA2B10SP9030D010 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**

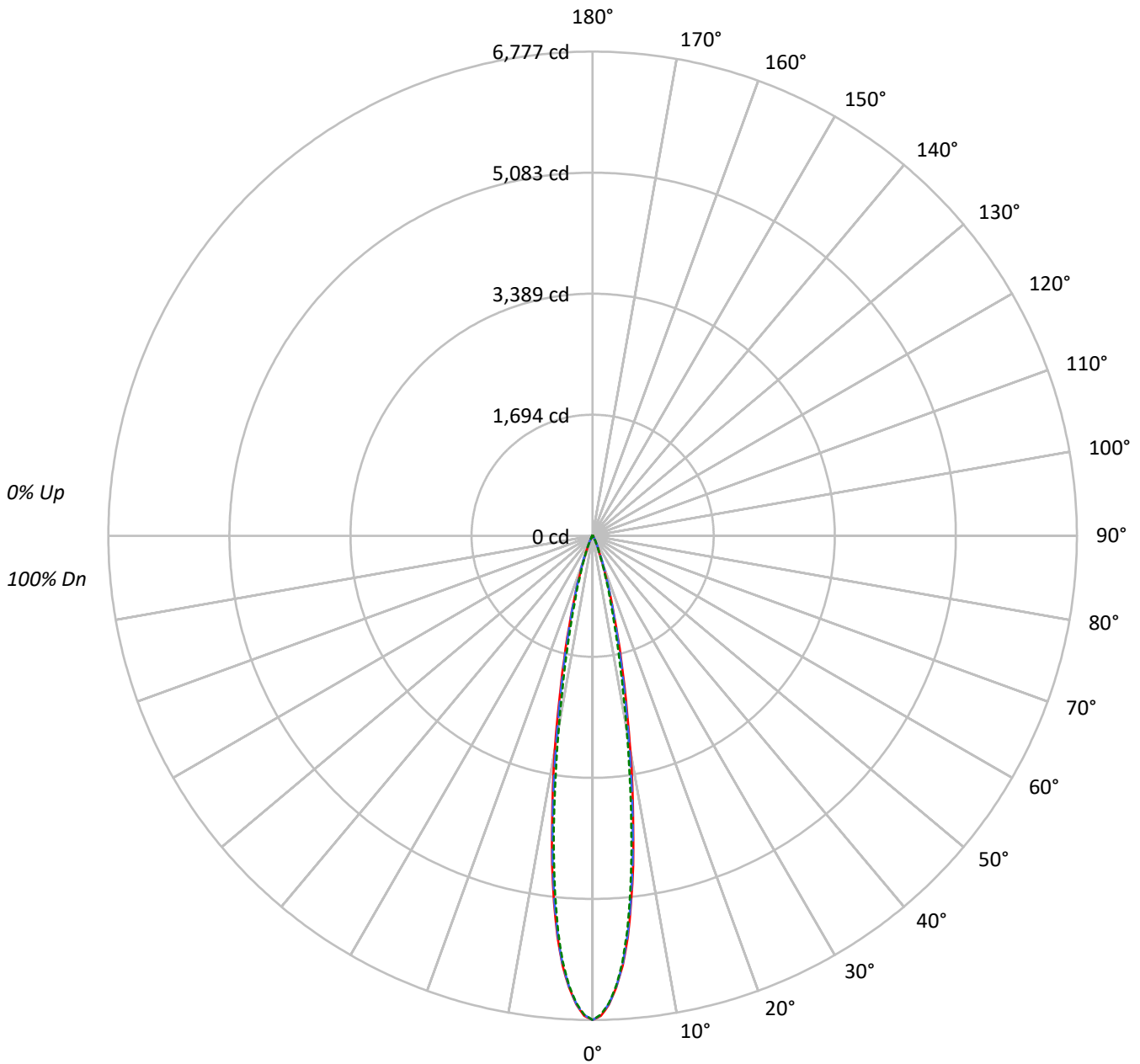
Lumens per Lamp: N/A  
Luminaire Lumens: 872.7 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	3343513	3343513	3343513
5°	2793338	2779966	2747082
10°	1521905	1462590	1369008
15°	603368	587993	504739
20°	202765	216625	179033
25°	70332	75993	67501
30°	25750	28085	27516
35°	16563	19394	14696
40°	8695	10369	10691
45°	7954	6140	5791
50°	4759	3224	2379
55°	0	0	0
60°	3059	3059	987
65°	2452	584	0
70°	0	2308	3029
75°	0	4956	0
80°	0	0	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.1	50.8
10°-20°	329.8	37.8
20°-30°	72.9	8.4
30°-40°	16.2	1.9
40°-50°	6.6	0.8
50°-60°	1.1	0.1
60°-70°	1.1	0.1
70°-80°	0.9	0.1
80°-90°	0.9	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°	845.8	96.9
0°-40°	862.1	98.8
0°-60°	869.8	99.7
0°-90°	872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6777	6777	6777	6777	6777	
5°	5640	5617	5613	5592	5547	450
15°	1181	1178	1151	1044	988	347
25°	129	144	140	129	124	70
35°	28	28	32	26	24	16
45°	11	9	9	9	8	7
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	3	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°	6777.0	6777.0	6777.0	6777.0	6777.0
1°	6721.4	6693.9	6707.4	6715.2	6703.8
2°	6564.7	6531.5	6552.8	6554.8	6543.4
3°	6331.1	6316.1	6322.8	6325.4	6302.6
4°	6032.2	6010.4	6015.0	6009.3	5981.3
5°	5640.3	5616.9	5613.3	5592.0	5546.9
6°	5161.2	5147.7	5123.3	5087.0	5026.8
7°	4647.9	4637.0	4595.0	4529.6	4460.0
8°	4085.3	4085.3	4024.6	3934.2	3854.8
9°	3552.8	3533.0	3455.7	3346.7	3269.9
10°	3037.9	3011.4	2919.5	2809.0	2732.7
11°	2550.5	2522.5	2434.3	2321.1	2250.5
12°	2129.6	2114.5	2046.0	1921.4	1850.9
13°	1774.0	1754.3	1694.1	1576.3	1516.1
14°	1464.2	1439.3	1391.0	1283.0	1224.4
15°	1181.3	1177.7	1151.2	1043.8	988.2
16°	965.4	963.3	938.4	833.6	810.7
17°	774.9	785.8	778.5	682.0	656.1
18°	603.1	624.9	630.1	542.9	517.0
19°	485.3	506.1	514.9	438.6	416.8
20°	386.2	405.9	412.6	355.5	341.0
22.5°	219.0	245.5	246.5	217.0	201.9
25°	129.2	144.3	139.6	129.2	124.0
26°	108.5	123.0	115.7	112.6	108.5
27°	91.3	101.2	95.5	90.3	93.9
28°	75.8	82.5	76.8	78.4	72.7
29°	60.2	71.6	63.3	64.9	60.2
30°	45.2	55.5	49.3	51.9	48.3
32.5°	33.7	36.9	32.7	36.9	36.9
35°	27.5	27.5	32.2	26.0	24.4
37.5°	12.5	9.9	10.9	8.8	10.4
40°	13.5	15.1	16.1	13.5	16.6
42.5°	9.3	12.5	12.5	8.3	14.5
45°	11.4	9.3	8.8	8.8	8.3
47.5°	5.2	3.6	4.2	4.7	7.3
50°	6.2	2.6	4.2	6.2	3.1
52.5°	2.1	0.0	2.6	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°	3.1	3.6	3.1	2.1	1.0
62.5°	5.2	1.0	1.6	2.1	0.0
65°	2.1	1.0	0.5	0.0	0.0
67.5°	0.0	0.0	1.6	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.6	0.0	0.0
77.5°	1.0	0.0	2.1	0.0	0.0
80°	0.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	2.6	2.1	0.0
85°	0.0	0.5	0.5	1.6	0.0
87.5°	0.0	1.6	2.1	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	1.6	1.0	2.1
72.5°	0.0	0.5	2.1	3.1	1.0



(END OF REPORT)