

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: P314778

Luminaire Tested: **LDA2B10SP9727D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314778  
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: LDA2B10SP9727D010 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: 752.6 lumens  
Efficiency: N/A  
Efficacy: 75.3 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

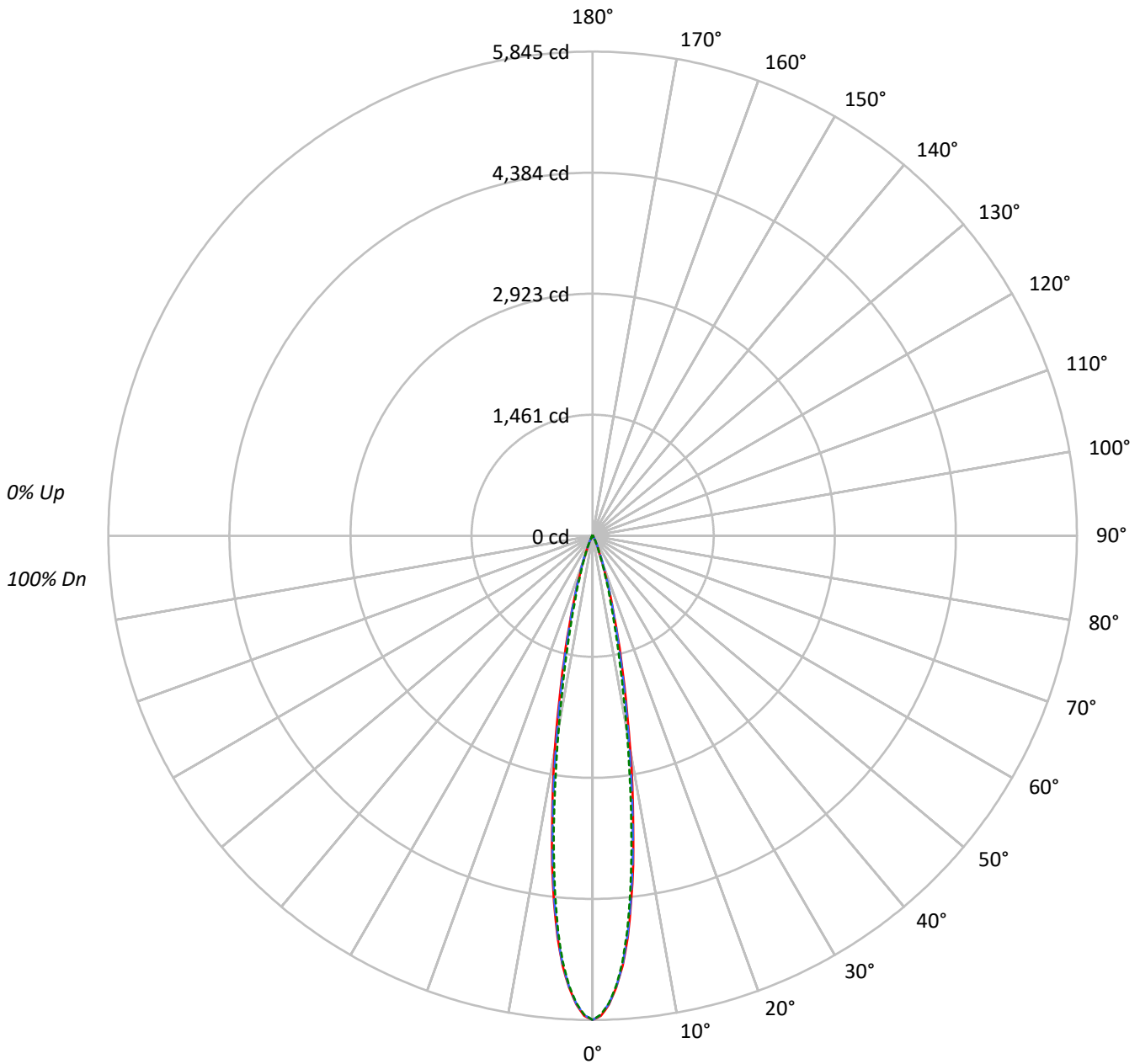
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P314778

CATALOG NUMBER: LDA2B10SP9727D010 PIN1MW

### 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	96	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	94	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	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°	2883552	2883552	2883552
5°	2409076	2397537	2369159
10°	1312548	1261399	1180692
15°	520368	507088	435326
20°	174833	186856	154410
25°	60697	65541	58247
30°	22161	24212	23699
35°	14274	16743	12648
40°	7471	8952	9210
45°	6838	5303	5024
50°	4145	2763	2072
55°	0	0	0
60°	2664	2664	888
65°	2101	467	0
70°	0	1875	2596
75°	0	4194	0
80°	0	0	0
85°	0	2264	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.1	50.8
10°-20°	284.4	37.8
20°-30°	62.9	8.4
30°-40°	14.0	1.9
40°-50°	5.7	0.8
50°-60°	1.0	0.1
60°-70°	1.0	0.1
70°-80°	0.8	0.1
80°-90°	0.7	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°	729.5	96.9
0°-40°	743.5	98.8
0°-60°	750.1	99.7
0°-90°	752.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	752.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5845	5845	5845	5845	5845	
5°	4864	4844	4841	4823	4784	388
15°	1019	1016	993	900	852	299
25°	112	124	120	112	107	61
35°	24	24	28	22	21	14
45°	10	8	8	8	7	6
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	0
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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CATALOG NUMBER: LDA2B10SP9727D010 PIN1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5844.7	5844.7	5844.7	5844.7	5844.7
1°	5796.8	5773.1	5784.7	5791.4	5781.6
2°	5661.6	5633.0	5651.3	5653.1	5643.3
3°	5460.2	5447.2	5453.0	5455.3	5435.6
4°	5202.4	5183.6	5187.6	5182.7	5158.5
5°	4864.4	4844.3	4841.1	4822.8	4783.8
6°	4451.2	4439.6	4418.6	4387.2	4335.3
7°	4008.5	3999.1	3962.9	3906.5	3846.5
8°	3523.3	3523.3	3470.9	3393.0	3324.6
9°	3064.0	3047.0	2980.3	2886.3	2820.1
10°	2620.0	2597.2	2517.9	2422.6	2356.8
11°	2199.7	2175.5	2099.4	2001.8	1940.9
12°	1836.6	1823.6	1764.6	1657.1	1596.3
13°	1530.0	1513.0	1461.1	1359.5	1307.5
14°	1262.8	1241.3	1199.6	1106.5	1056.0
15°	1018.8	1015.7	992.8	900.2	852.3
16°	832.6	830.8	809.3	718.9	699.2
17°	668.3	677.7	671.4	588.2	565.8
18°	520.1	538.9	543.4	468.2	445.8
19°	418.5	436.4	444.0	378.2	359.4
20°	333.0	350.0	355.9	306.6	294.1
22.5°	188.9	211.7	212.6	187.1	174.1
25°	111.5	124.4	120.4	111.5	107.0
26°	93.6	106.1	99.8	97.1	93.6
27°	78.8	87.3	82.4	77.9	81.0
28°	65.4	71.2	66.2	67.6	62.7
29°	51.9	61.8	54.6	56.0	51.9
30°	38.9	47.9	42.5	44.8	41.6
32.5°	29.1	31.8	28.2	31.8	31.8
35°	23.7	23.7	27.8	22.4	21.0
37.5°	10.7	8.5	9.4	7.6	9.0
40°	11.6	13.0	13.9	11.6	14.3
42.5°	8.1	10.7	10.7	7.2	12.5
45°	9.8	8.1	7.6	7.6	7.2
47.5°	4.5	3.1	3.6	4.0	6.3
50°	5.4	2.2	3.6	5.4	2.7
52.5°	1.8	0.0	2.2	0.0	0.9
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.4	0.9	0.0
60°	2.7	3.1	2.7	1.8	0.9
62.5°	4.5	0.9	1.3	1.8	0.0
65°	1.8	0.9	0.4	0.0	0.0
67.5°	0.0	0.0	1.3	0.0	0.0



TEST NUMBER: P314778

CATALOG NUMBER: LDA2B10SP9727D010 PIN1MW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.2	0.0	0.0
77.5°	0.9	0.0	1.8	0.0	0.0
80°	0.0	0.9	0.0	0.0	0.0
82.5°	0.0	0.0	2.2	1.8	0.0
85°	0.0	0.4	0.4	1.3	0.0
87.5°	0.0	1.3	1.8	0.4	0.9
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	1.3	0.9	1.8
72.5°	0.0	0.4	1.8	2.7	0.9



(END OF REPORT)