

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: P282698

Luminaire Tested: **LDA2B109730D010 EU2B10NFL259730 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B109730D010 EU2B10NFL259730 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 677.4 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

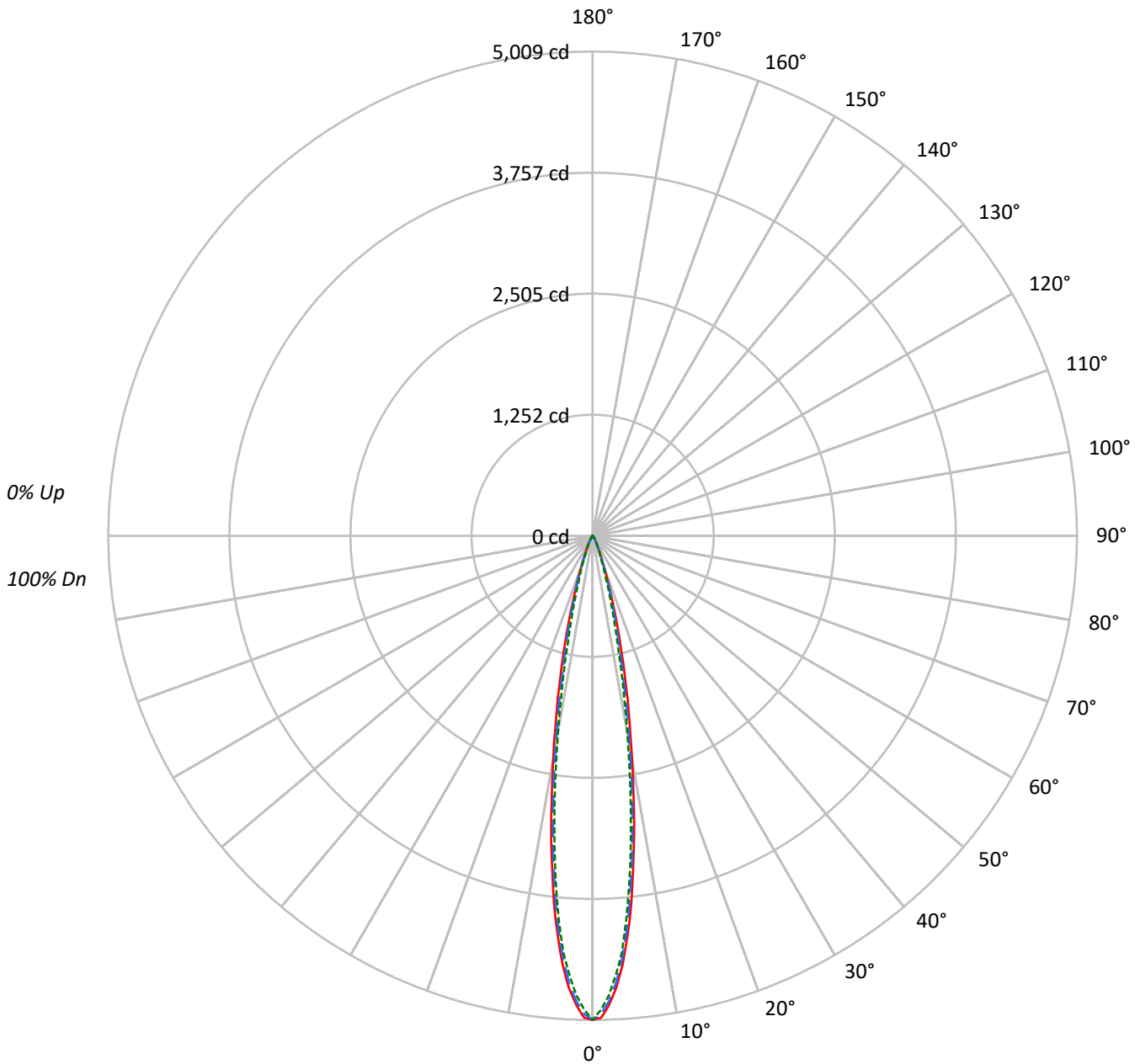
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2471200	2471200	2471200
5°	2056312	2018624	1977865
10°	1177837	1105246	1031503
15°	523892	465256	389867
20°	190059	178666	141547
25°	72945	68154	58682
30°	31447	29282	25978
35°	14876	14876	12347
40°	7471	7728	6247
45°	4326	4047	3768
50°	2993	2686	2686
55°	2322	1634	1978
60°	1875	1184	1480
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.8	48.1
10°-20°	263.6	38.9
20°-30°	63.6	9.4
30°-40°	16.2	2.4
40°-50°	4.8	0.7
50°-60°	2.0	0.3
60°-70°	1.0	0.2
70°-80°	0.3	0.1
80°-90°	0.0	0.0
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°	653.0	96.4
0°-40°	669.2	98.8
0°-60°	676.1	99.8
0°-90°	677.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5009	5009	5009	5009	5009	
5°	4152	4114	4076	4040	3994	336
15°	1026	1001	911	820	763	292
25°	134	135	125	114	108	69
35°	25	25	25	22	20	17
45°	6	6	6	5	5	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5008.9	5008.9	5008.9	5008.9	5008.9
1°	4986.5	4951.7	4947.5	4969.1	4905.4
2°	4859.0	4834.3	4820.0	4832.7	4760.5
3°	4684.0	4660.1	4634.2	4634.6	4553.8
4°	4445.7	4426.7	4383.1	4369.9	4323.2
5°	4152.1	4113.8	4076.0	4040.4	3993.7
6°	3827.6	3778.1	3724.0	3671.1	3623.2
7°	3445.9	3413.1	3341.6	3269.3	3228.8
8°	3087.0	3034.1	2950.6	2860.2	2825.9
9°	2701.1	2663.2	2567.4	2462.3	2428.0
10°	2351.1	2311.7	2206.2	2089.2	2059.0
11°	2022.7	1985.6	1875.9	1753.1	1721.0
12°	1745.0	1692.4	1566.5	1459.9	1428.6
13°	1468.4	1432.4	1313.1	1207.6	1147.0
14°	1233.1	1203.4	1095.2	1002.5	938.3
15°	1025.7	1001.3	910.9	820.5	763.3
16°	841.4	826.3	754.9	667.5	620.8
17°	682.6	668.7	623.1	542.8	503.4
18°	551.3	549.3	511.5	441.9	406.8
19°	453.5	452.8	418.0	359.7	330.7
20°	362.0	367.0	340.3	289.3	269.6
21°	295.1	297.8	276.6	238.0	220.2
22°	240.3	242.2	228.3	196.6	187.0
23°	197.0	198.2	186.6	163.0	154.5
24°	162.3	163.0	152.6	136.0	128.6
25°	134.0	134.8	125.2	113.6	107.8
26°	111.3	112.0	103.5	95.4	89.6
27°	92.3	93.9	85.4	80.4	74.2
28°	78.8	79.2	71.5	68.4	62.6
29°	64.5	66.8	60.3	57.6	53.3
30°	55.2	56.4	51.4	49.4	45.6
32.5°	36.7	37.5	35.2	33.6	30.5
35°	24.7	25.1	24.7	22.4	20.5
37.5°	17.0	17.0	17.4	14.7	13.9
40°	11.6	11.6	12.0	10.0	9.7
42.5°	8.5	8.5	8.1	7.0	7.0
45°	6.2	6.2	5.8	5.4	5.4
47.5°	5.0	4.6	4.2	4.2	4.2
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.2	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







62.5°	1.5	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)