

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: P282688

Luminaire Tested: **LDA2B109035D010 EU2B10NFL259035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282688  
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: LDA2B109035D010 EU2B10NFL259035 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 768.0 lumens  
Efficiency: N/A  
Efficacy: 76.8 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

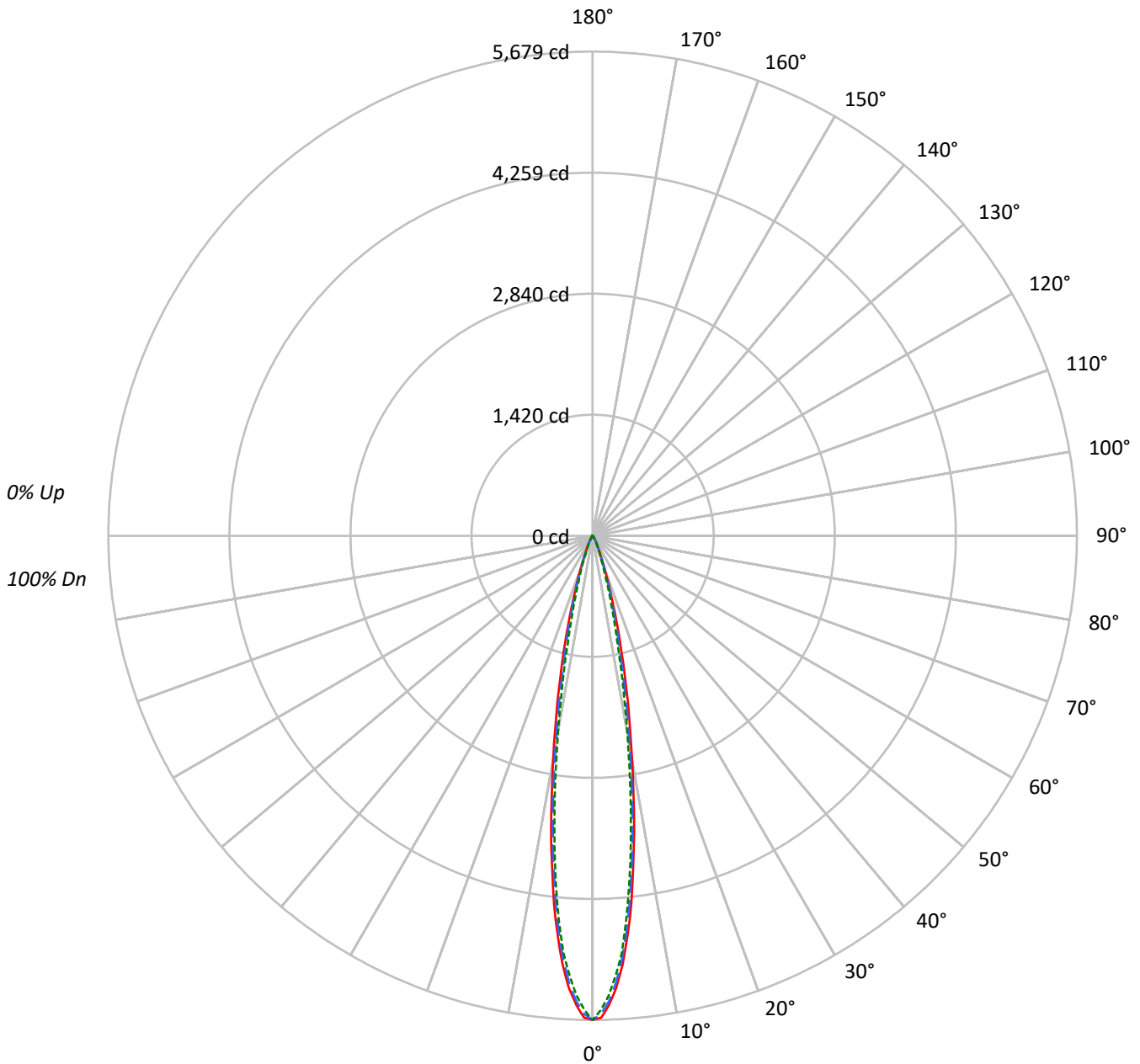
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2801851	2801851	2801851
5°	2331471	2288731	2242525
10°	1335443	1253133	1169571
15°	593969	527519	442068
20°	215470	202607	160500
25°	82743	77245	66521
30°	35662	33213	29453
35°	16864	16864	13973
40°	8437	8759	7084
45°	4884	4605	4256
50°	3377	2993	2993
55°	2666	1892	2236
60°	2171	1283	1776
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.4	48.1
10°-20°	298.9	38.9
20°-30°	72.1	9.4
30°-40°	18.4	2.4
40°-50°	5.5	0.7
50°-60°	2.4	0.3
60°-70°	1.1	0.1
70°-80°	0.3	0.0
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°	740.4	96.4
0°-40°	758.7	98.8
0°-60°	766.6	99.8
0°-90°	768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5679	5679	5679	5679	5679	
5°	4708	4664	4621	4581	4528	381
15°	1163	1135	1033	930	866	332
25°	152	153	142	129	122	78
35°	28	28	28	25	23	19
45°	7	7	7	6	6	6
55°	3	3	2	2	3	3
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°	5679.1	5679.1	5679.1	5679.1	5679.1
1°	5653.7	5614.3	5609.5	5634.0	5561.8
2°	5509.2	5481.2	5465.0	5479.4	5397.5
3°	5310.8	5283.6	5254.3	5254.7	5163.2
4°	5040.5	5019.1	4969.6	4954.7	4901.7
5°	4707.7	4664.3	4621.4	4581.1	4528.1
6°	4339.7	4283.7	4222.3	4162.3	4108.0
7°	3907.0	3869.8	3788.7	3706.8	3660.8
8°	3500.1	3440.1	3345.5	3243.0	3204.0
9°	3062.5	3019.6	2911.0	2791.8	2752.8
10°	2665.7	2621.0	2501.4	2368.7	2334.6
11°	2293.4	2251.3	2126.9	1987.7	1951.3
12°	1978.5	1918.9	1776.1	1655.2	1619.7
13°	1664.8	1624.1	1488.8	1369.2	1300.4
14°	1398.1	1364.4	1241.7	1136.6	1063.9
15°	1162.9	1135.3	1032.8	930.3	865.5
16°	954.0	936.9	855.9	756.9	703.9
17°	774.0	758.2	706.5	615.4	570.7
18°	625.0	622.8	579.9	501.1	461.2
19°	514.2	513.3	473.9	407.8	374.9
20°	410.4	416.1	385.9	328.1	305.7
21°	334.6	337.7	313.6	269.8	249.7
22°	272.4	274.6	258.9	222.9	212.0
23°	223.4	224.7	211.6	184.8	175.2
24°	184.0	184.8	173.0	154.2	145.9
25°	152.0	152.9	141.9	128.8	122.2
26°	126.1	127.0	117.4	108.2	101.6
27°	104.7	106.4	96.8	91.1	84.1
28°	89.4	89.8	81.0	77.5	71.0
29°	73.1	75.8	68.3	65.3	60.4
30°	62.6	63.9	58.3	56.1	51.7
32.5°	41.6	42.5	39.9	38.1	34.6
35°	28.0	28.5	28.0	25.4	23.2
37.5°	19.3	19.3	19.7	16.6	15.8
40°	13.1	13.1	13.6	11.4	11.0
42.5°	9.6	9.6	9.2	7.9	7.9
45°	7.0	7.0	6.6	6.1	6.1
47.5°	5.7	5.3	4.8	4.8	4.8
50°	4.4	4.4	3.9	3.5	3.9
52.5°	3.5	3.5	3.1	3.1	3.1
55°	3.1	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.8	1.8	2.2
60°	2.2	1.8	1.3	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
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°	1.8	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)