

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: P282696

Luminaire Tested: **LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282696  
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: LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 627.6 lumens  
Efficiency: N/A  
Efficacy: 62.8 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

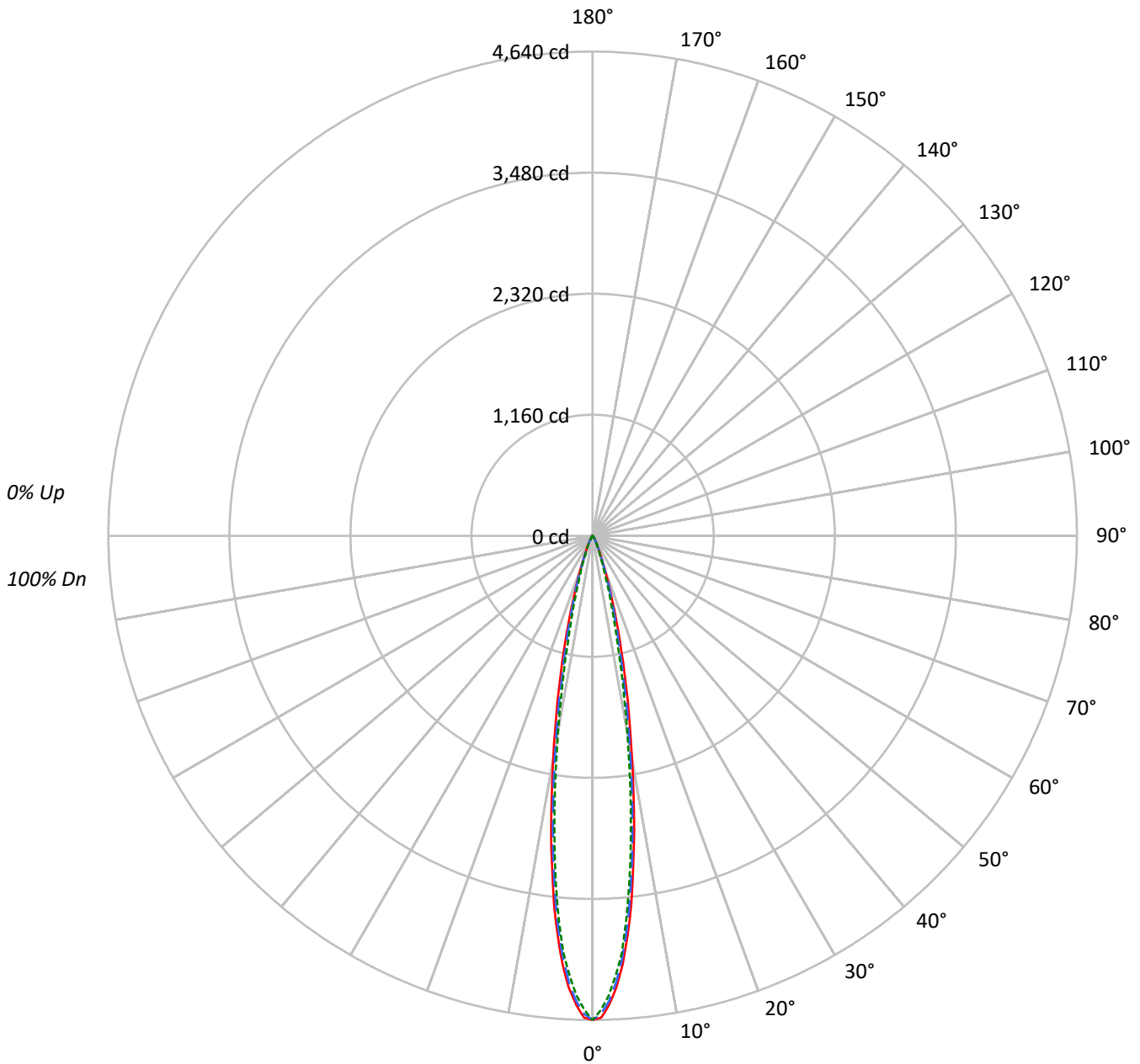
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P282696

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P282696

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MB

**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°	2289248	2289248	2289248
5°	1904916	1870001	1832213
10°	1091119	1023888	955555
15°	485278	431035	361162
20°	176041	165540	131151
25°	67610	63092	54328
30°	29168	27117	24041
35°	13792	13792	11443
40°	6891	7149	5732
45°	3977	3768	3489
50°	2763	2456	2456
55°	2150	1548	1806
60°	1776	1085	1381
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282696

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.8	48.1
10°-20°	244.2	38.9
20°-30°	58.9	9.4
30°-40°	15.0	2.4
40°-50°	4.5	0.7
50°-60°	1.9	0.3
60°-70°	0.9	0.1
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°	604.9	96.4
0°-40°	619.9	98.8
0°-60°	626.3	99.8
0°-90°	627.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4640	4640	4640	4640	4640	
5°	3846	3811	3776	3743	3700	311
15°	950	928	844	760	707	271
25°	124	125	116	105	100	64
35°	23	23	23	21	19	16
45°	6	6	5	5	5	5
55°	2	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



TEST NUMBER: P282696

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4640.1	4640.1	4640.1	4640.1	4640.1
1°	4619.4	4587.2	4583.2	4603.3	4544.2
2°	4501.3	4478.4	4465.1	4476.9	4410.0
3°	4339.2	4317.0	4293.0	4293.3	4218.6
4°	4118.3	4100.8	4060.4	4048.2	4004.9
5°	3846.4	3810.9	3775.9	3742.9	3699.6
6°	3545.8	3500.0	3449.9	3400.8	3356.4
7°	3192.2	3161.8	3095.6	3028.6	2991.1
8°	2859.7	2810.7	2733.4	2649.7	2617.8
9°	2502.2	2467.1	2378.4	2281.1	2249.2
10°	2178.0	2141.5	2043.8	1935.4	1907.4
11°	1873.8	1839.4	1737.8	1624.0	1594.3
12°	1616.5	1567.8	1451.2	1352.4	1323.4
13°	1360.3	1327.0	1216.4	1118.7	1062.5
14°	1142.3	1114.8	1014.6	928.7	869.3
15°	950.1	927.6	843.9	760.1	707.1
16°	779.4	765.5	699.3	618.4	575.1
17°	632.4	619.5	577.2	502.8	466.3
18°	510.7	508.9	473.8	409.4	376.8
19°	420.1	419.4	387.2	333.2	306.3
20°	335.3	340.0	315.3	268.0	249.8
21°	273.4	275.9	256.2	220.4	204.0
22°	222.6	224.4	211.5	182.2	173.2
23°	182.5	183.6	172.9	151.0	143.1
24°	150.3	151.0	141.4	126.0	119.2
25°	124.2	124.9	115.9	105.2	99.8
26°	103.1	103.8	95.9	88.4	83.0
27°	85.5	87.0	79.1	74.4	68.7
28°	73.0	73.4	66.2	63.3	58.0
29°	59.8	61.9	55.8	53.3	49.4
30°	51.2	52.2	47.6	45.8	42.2
32.5°	34.0	34.7	32.6	31.1	28.3
35°	22.9	23.3	22.9	20.8	19.0
37.5°	15.7	15.7	16.1	13.6	12.9
40°	10.7	10.7	11.1	9.3	8.9
42.5°	7.9	7.9	7.5	6.4	6.4
45°	5.7	5.7	5.4	5.0	5.0
47.5°	4.7	4.3	3.9	3.9	3.9
50°	3.6	3.6	3.2	2.9	3.2
52.5°	2.9	2.9	2.5	2.5	2.5
55°	2.5	2.1	1.8	1.8	2.1
57.5°	1.8	1.8	1.4	1.4	1.8
60°	1.8	1.4	1.1	1.4	1.4



TEST NUMBER: P282696

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MB

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
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



Report Generated By E9808895 / USPTCWHP6082093







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







62.5°	1.4	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)