

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: P283912

Luminaire Tested: **LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 708.1 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

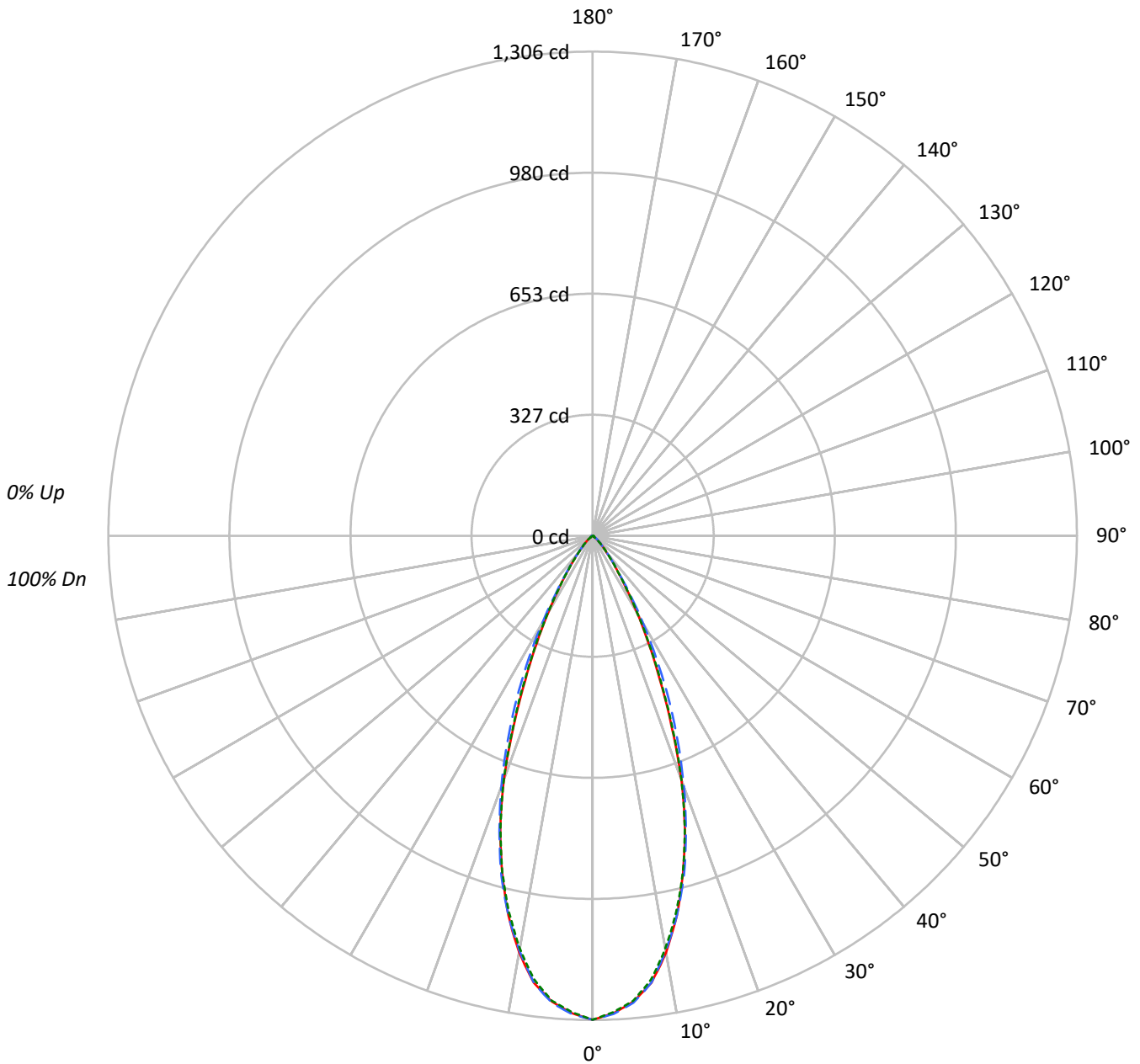
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P283912

CATALOG NUMBER: LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P283912

CATALOG NUMBER: LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MMS

**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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	644084	644084	644084
5°	624704	626189	623416
10°	571810	569556	566099
15°	480988	485432	480222
20°	367832	377598	367202
25°	233587	263364	238105
30°	135870	153359	138206
35°	71792	76370	72033
40°	37934	39608	37934
45°	21211	21978	21490
50°	9901	12511	9901
55°	3613	6881	3957
60°	4144	4144	4144
65°	4436	4903	4436
70°	5481	4904	5481
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



TEST NUMBER: P283912

CATALOG NUMBER: LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	16.5
10°-20°	259.5	36.6
20°-30°	209.5	29.6
30°-40°	82.8	11.7
40°-50°	25.4	3.6
50°-60°	6.6	0.9
60°-70°	4.0	0.6
70°-80°	2.9	0.4
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°	585.5	82.7
0°-40°	668.4	94.4
0°-60°	700.3	98.9
0°-90°	708.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	708.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1261	1264	1264	1262	1259	117
15°	942	944	950	947	940	259
25°	429	450	484	458	437	200
35°	119	123	127	123	120	80
45°	30	31	32	31	31	25
55°	4	6	8	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283912

CATALOG NUMBER: LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1289.1	1289.9	1291.0	1289.5	1285.7
5°	1261.4	1263.7	1264.4	1261.8	1258.8
7.5°	1215.8	1213.2	1215.5	1210.9	1207.1
10°	1141.4	1138.0	1136.9	1130.0	1130.0
12.5°	1049.5	1048.4	1049.1	1045.7	1040.4
15°	941.7	944.3	950.4	946.6	940.2
17.5°	827.4	831.2	836.5	835.4	826.6
20°	700.6	711.6	719.2	712.0	699.4
22.5°	556.3	579.8	599.2	584.0	563.5
25°	429.1	449.6	483.8	457.9	437.4
27.5°	325.4	340.2	371.4	345.9	331.9
30°	238.5	247.6	269.2	252.5	242.6
32.5°	170.5	176.9	186.1	176.2	171.3
35°	119.2	122.6	126.8	123.0	119.6
37.5°	83.9	85.1	88.1	85.1	83.5
40°	58.9	59.2	61.5	59.6	58.9
42.5°	42.5	42.5	43.7	42.9	42.5
45°	30.4	30.8	31.5	31.1	30.8
47.5°	21.6	22.4	22.4	22.8	21.3
50°	12.9	15.9	16.3	15.9	12.9
52.5°	6.8	9.5	11.8	9.5	6.8
55°	4.2	5.7	8.0	5.7	4.6
57.5°	4.2	4.2	5.3	4.6	4.2
60°	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.8	4.2	4.2	4.2	3.8
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.4	3.8	3.8
72.5°	3.4	3.4	3.0	3.4	3.4
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







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







(END OF REPORT)