

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: P283565

Luminaire Tested: **LDA2B108040D010 EU2B10FL408040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108040D010 EU2B10FL408040 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 945.8 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

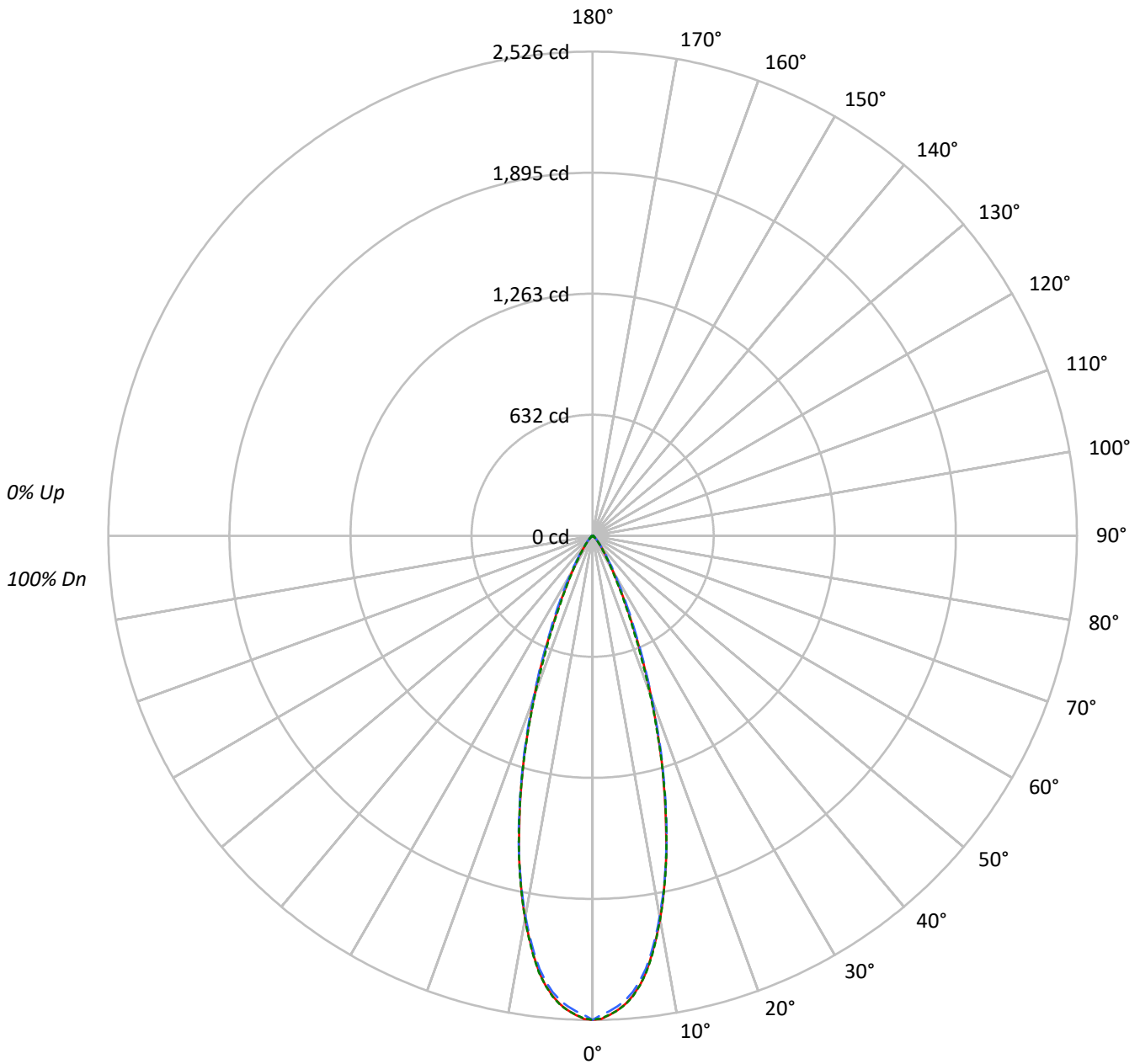
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	1246133	1246133	1246133
5°	1192553	1183589	1194386
10°	1016023	1009610	1017075
15°	748834	753737	751285
20°	467482	476092	457191
25°	241480	259118	229341
30°	115760	132680	110348
35°	59747	66131	55952
40°	33490	35229	31751
45°	20373	20373	19606
50°	10592	13048	10592
55°	5505	8688	5935
60°	6315	6315	6315
65°	6771	6771	6771
70°	8366	7645	8366
75°	8006	8006	8006
80°	7671	7671	7671
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	23.0
10°-20°	399.1	42.2
20°-30°	216.4	22.9
30°-40°	69.5	7.3
40°-50°	23.7	2.5
50°-60°	8.3	0.9
60°-70°	6.0	0.6
70°-80°	4.4	0.5
80°-90°	1.3	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°	832.7	88.0
0°-40°	902.1	95.4
0°-60°	934.1	98.8
0°-90°	945.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2526	2526	2526	2526	2526	
5°	2408	2393	2390	2414	2412	218
15°	1466	1478	1476	1483	1471	397
25°	444	464	476	443	421	213
35°	99	104	110	100	93	67
45°	29	30	29	29	28	23
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2525.8	2525.8	2525.8	2525.8	2525.8
1°	2521.5	2503.5	2500.9	2524.2	2518.9
2°	2501.4	2484.4	2481.7	2505.1	2500.3
3°	2479.1	2463.7	2458.4	2482.8	2479.6
4°	2449.4	2435.1	2430.3	2454.7	2452.0
5°	2408.0	2393.1	2389.9	2413.8	2411.7
6°	2357.1	2344.8	2339.0	2362.9	2358.6
7°	2293.4	2282.2	2275.9	2293.4	2295.5
8°	2210.6	2205.3	2197.9	2215.4	2215.4
9°	2122.5	2117.7	2109.8	2125.7	2125.7
10°	2028.1	2024.9	2015.3	2030.2	2030.2
11°	1924.6	1923.0	1916.1	1928.3	1928.3
12°	1815.8	1819.5	1813.2	1823.8	1820.1
13°	1707.0	1705.4	1706.0	1713.9	1708.1
14°	1583.9	1593.5	1595.1	1599.8	1590.8
15°	1466.1	1478.3	1475.7	1482.6	1470.9
16°	1345.7	1359.5	1358.9	1360.5	1349.4
17°	1233.2	1241.1	1241.7	1240.1	1226.3
18°	1113.3	1124.4	1124.4	1121.7	1105.3
19°	996.0	1004.5	1010.3	1004.5	985.4
20°	890.4	896.2	906.8	892.0	870.8
21°	789.0	794.4	803.4	785.9	762.5
22°	691.9	698.8	707.3	687.2	662.8
23°	601.2	617.1	620.3	592.7	572.0
24°	517.9	535.9	541.2	513.1	491.4
25°	443.6	463.8	476.0	443.1	421.3
26°	379.4	399.0	413.9	381.0	360.3
27°	323.2	343.8	359.2	328.5	308.8
28°	274.9	295.0	310.9	282.3	263.7
29°	238.8	250.5	266.4	242.5	225.5
30°	203.2	216.0	232.9	208.5	193.7
32.5°	139.6	146.5	159.7	144.9	133.2
35°	99.2	103.5	109.8	99.8	92.9
37.5°	70.6	72.7	76.4	70.6	66.9
40°	52.0	53.1	54.7	51.5	49.3
42.5°	38.7	39.3	39.3	38.2	37.1
45°	29.2	29.7	29.2	29.2	28.1
47.5°	21.2	22.8	22.3	22.3	20.7
50°	13.8	17.0	17.0	16.4	13.8
52.5°	8.5	11.7	13.3	11.7	9.0
55°	6.4	8.0	10.1	8.0	6.9
57.5°	6.4	6.4	7.4	6.4	6.4
60°	6.4	6.4	6.4	6.4	6.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.3	5.8	5.8
72.5°	5.3	5.3	4.8	5.3	4.8
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.8	6.4	5.8	6.4	5.8



(END OF REPORT)