

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: P283568

Luminaire Tested: **LDA2B108050D010 EU2B10FL408050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283568  
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: LDA2B108050D010 EU2B10FL408050 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 995.5 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

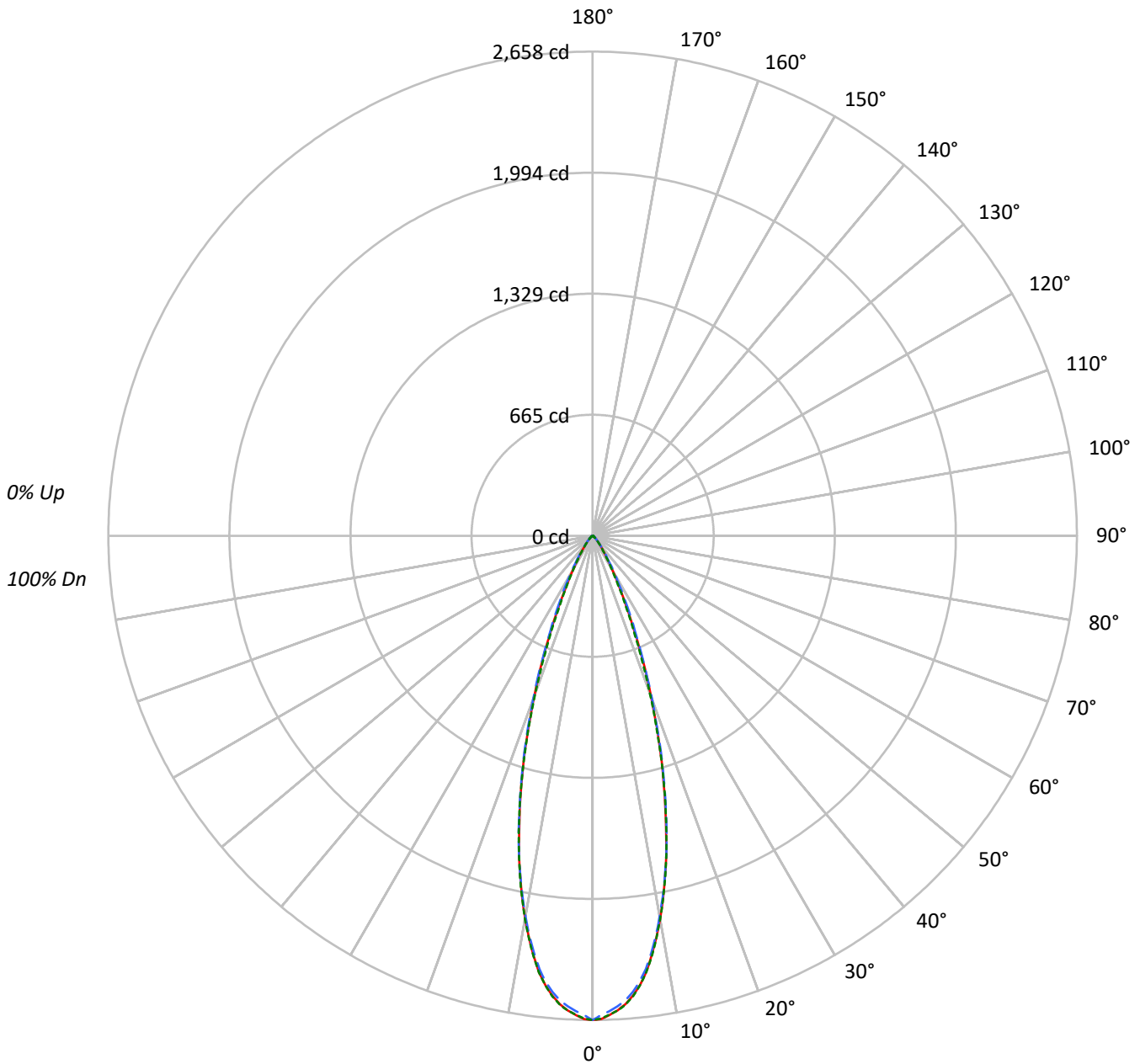
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1311602	1311602	1311602
5°	1255202	1245792	1257133
10°	1069376	1062663	1070529
15°	788214	793321	790767
20°	492053	501136	481185
25°	254164	272727	241426
30°	121856	139687	116159
35°	62878	69624	58843
40°	35229	37032	33426
45°	21420	21420	20652
50°	11129	13739	11129
55°	5763	9118	6279
60°	6611	6611	6611
65°	7121	7121	7121
70°	8799	8078	8799
75°	8578	8578	8578
80°	7955	7955	7955
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.7	23.0
10°-20°	420.0	42.2
20°-30°	227.7	22.9
30°-40°	73.1	7.3
40°-50°	24.9	2.5
50°-60°	8.7	0.9
60°-70°	6.3	0.6
70°-80°	4.7	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°	876.4	88.0
0°-40°	949.5	95.4
0°-60°	983.2	98.8
0°-90°	995.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	995.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2658	2658	2658	2658	2658	
5°	2534	2519	2516	2541	2538	229
15°	1543	1556	1553	1560	1548	418
25°	467	488	501	466	444	224
35°	104	109	116	105	98	70
45°	31	31	31	31	30	24
55°	7	8	11	8	7	7
65°	6	7	6	7	6	6
75°	4	4	4	4	4	5
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°	2658.5	2658.5	2658.5	2658.5	2658.5
1°	2654.0	2635.1	2632.3	2656.8	2651.2
2°	2632.8	2614.9	2612.2	2636.7	2631.7
3°	2609.4	2593.2	2587.6	2613.3	2609.9
4°	2578.1	2563.0	2558.0	2583.7	2580.9
5°	2534.5	2518.9	2515.5	2540.7	2538.4
6°	2480.9	2468.1	2461.9	2487.0	2482.6
7°	2413.9	2402.2	2395.5	2413.9	2416.1
8°	2326.8	2321.2	2313.4	2331.8	2331.8
9°	2234.0	2229.0	2220.6	2237.4	2237.4
10°	2134.6	2131.3	2121.2	2136.9	2136.9
11°	2025.7	2024.0	2016.8	2029.6	2029.6
12°	1911.2	1915.1	1908.4	1919.6	1915.7
13°	1796.7	1795.1	1795.6	1804.0	1797.8
14°	1667.2	1677.2	1678.9	1683.9	1674.4
15°	1543.2	1556.0	1553.2	1560.5	1548.2
16°	1416.4	1430.9	1430.3	1432.0	1420.3
17°	1298.0	1306.4	1306.9	1305.2	1290.7
18°	1171.8	1183.5	1183.5	1180.7	1163.4
19°	1048.3	1057.3	1063.4	1057.3	1037.2
20°	937.2	943.3	954.5	938.9	916.5
21°	830.5	836.1	845.6	827.2	802.6
22°	728.3	735.6	744.5	723.3	697.6
23°	632.8	649.5	652.9	623.9	602.1
24°	545.1	564.1	569.7	540.1	517.2
25°	466.9	488.1	501.0	466.4	443.5
26°	399.3	420.0	435.6	401.0	379.2
27°	340.1	361.9	378.1	345.7	325.1
28°	289.3	310.5	327.3	297.1	277.6
29°	251.3	263.6	280.4	255.2	237.4
30°	213.9	227.3	245.2	219.5	203.9
32.5°	146.9	154.1	168.1	152.5	140.2
35°	104.4	108.9	115.6	105.0	97.7
37.5°	74.3	76.5	80.4	74.3	70.4
40°	54.7	55.9	57.5	54.2	51.9
42.5°	40.8	41.3	41.3	40.2	39.1
45°	30.7	31.3	30.7	30.7	29.6
47.5°	22.3	24.0	23.5	23.5	21.8
50°	14.5	17.9	17.9	17.3	14.5
52.5°	8.9	12.3	14.0	12.3	9.5
55°	6.7	8.4	10.6	8.4	7.3
57.5°	6.7	6.7	7.8	6.7	6.7
60°	6.7	6.7	6.7	6.7	6.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	5.6	6.1	6.1
72.5°	5.6	5.6	5.0	5.6	5.0
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.8	2.8	2.8	2.8	2.8
82.5°	1.7	1.7	1.7	2.2	1.7
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.7	6.7	6.7	6.7	6.7
65°	6.1	6.7	6.1	6.7	6.1



(END OF REPORT)