

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: P283564

Luminaire Tested: **LDA2B108040D010 EU2B10FL408040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283564  
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 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 990.8 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

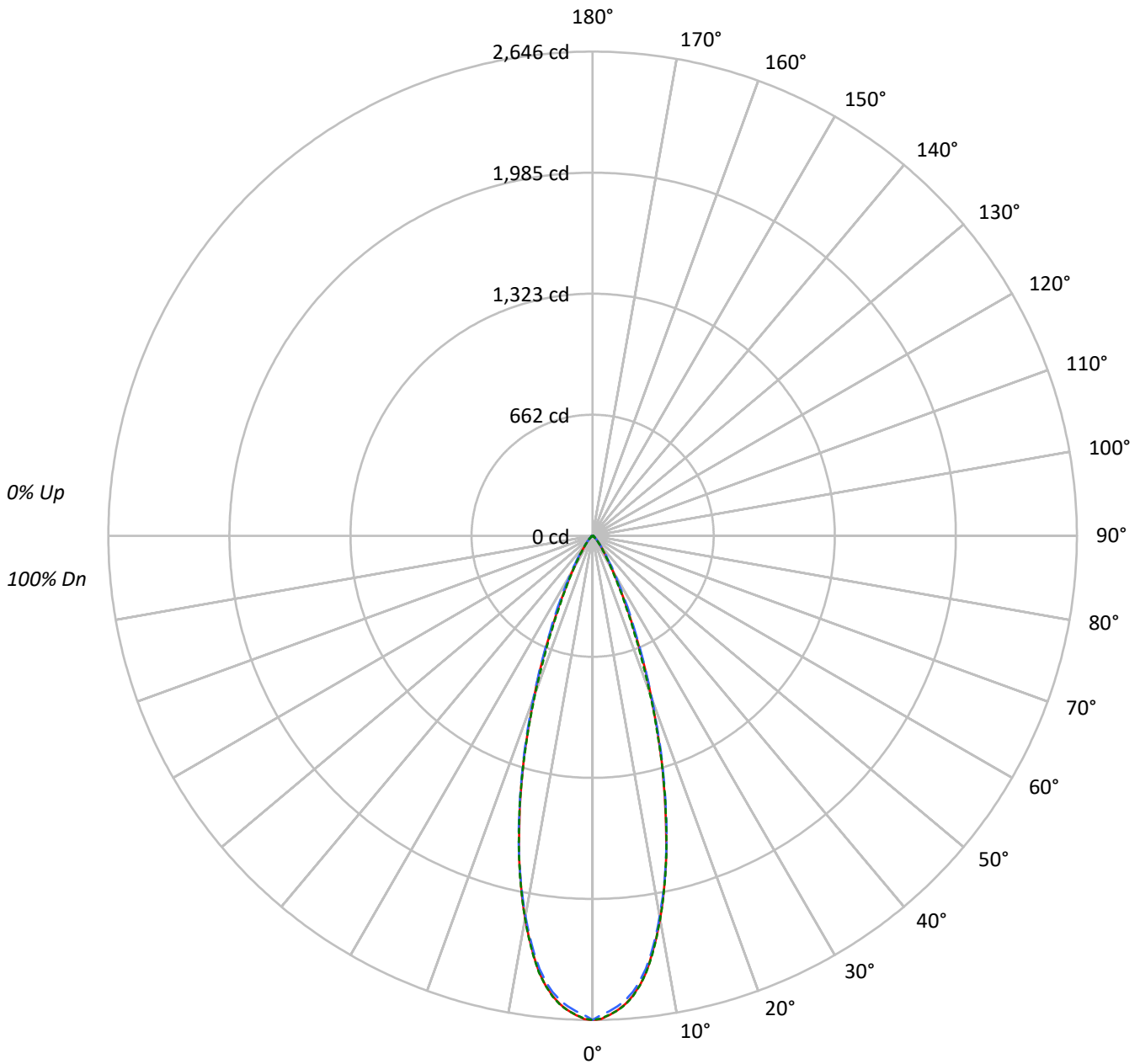
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1305386	1305386	1305386
5°	1249259	1239899	1251190
10°	1064316	1057654	1065419
15°	784485	789593	787039
20°	489690	498773	478927
25°	252966	271420	240282
30°	121286	139003	115589
35°	62577	69323	58602
40°	35100	36903	33297
45°	21350	21350	20583
50°	11129	13662	11129
55°	5763	9118	6193
60°	6611	6611	6611
65°	7121	7121	7121
70°	8799	8078	8799
75°	8387	8387	8387
80°	7955	7955	7955
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	23.0
10°-20°	418.0	42.2
20°-30°	226.6	22.9
30°-40°	72.8	7.3
40°-50°	24.8	2.5
50°-60°	8.7	0.9
60°-70°	6.3	0.6
70°-80°	4.6	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°	872.3	88.0
0°-40°	945.0	95.4
0°-60°	978.5	98.8
0°-90°	990.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2646	2646	2646	2646	2646	
5°	2522	2507	2504	2529	2526	228
15°	1536	1549	1546	1553	1541	416
25°	465	486	499	464	441	223
35°	104	108	115	104	97	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°	2645.9	2645.9	2645.9	2645.9	2645.9
1°	2641.5	2622.6	2619.8	2644.3	2638.7
2°	2620.4	2602.6	2599.8	2624.2	2619.2
3°	2597.0	2580.9	2575.3	2600.9	2597.6
4°	2565.9	2550.9	2545.9	2571.4	2568.7
5°	2522.5	2507.0	2503.6	2528.6	2526.4
6°	2469.2	2456.4	2450.3	2475.3	2470.8
7°	2402.5	2390.8	2384.1	2402.5	2404.7
8°	2315.7	2310.2	2302.4	2320.7	2320.7
9°	2223.5	2218.5	2210.1	2226.8	2226.8
10°	2124.5	2121.2	2111.2	2126.7	2126.7
11°	2016.1	2014.5	2007.2	2020.0	2020.0
12°	1902.2	1906.1	1899.4	1910.5	1906.6
13°	1788.2	1786.6	1787.1	1795.4	1789.3
14°	1659.3	1669.3	1670.9	1675.9	1666.5
15°	1535.9	1548.6	1545.9	1553.1	1540.9
16°	1409.7	1424.1	1423.6	1425.2	1413.6
17°	1291.8	1300.2	1300.7	1299.1	1284.6
18°	1166.2	1177.9	1177.9	1175.1	1157.9
19°	1043.4	1052.3	1058.4	1052.3	1032.2
20°	932.7	938.9	950.0	934.4	912.2
21°	826.6	832.1	841.6	823.2	798.8
22°	724.8	732.1	741.0	719.8	694.3
23°	629.8	646.5	649.8	620.9	599.2
24°	542.5	561.4	567.0	537.5	514.7
25°	464.7	485.8	498.6	464.1	441.4
26°	397.4	418.0	433.6	399.1	377.4
27°	338.5	360.2	376.3	344.1	323.5
28°	287.9	309.1	325.7	295.7	276.3
29°	250.1	262.4	279.0	254.0	236.2
30°	212.9	226.2	244.0	218.5	202.9
32.5°	146.2	153.4	167.3	151.8	139.5
35°	103.9	108.4	115.1	104.5	97.3
37.5°	73.9	76.2	80.0	73.9	70.0
40°	54.5	55.6	57.3	53.9	51.7
42.5°	40.6	41.1	41.1	40.0	38.9
45°	30.6	31.1	30.6	30.6	29.5
47.5°	22.2	23.9	23.3	23.3	21.7
50°	14.5	17.8	17.8	17.2	14.5
52.5°	8.9	12.2	13.9	12.2	9.4
55°	6.7	8.3	10.6	8.3	7.2
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°	4.4	4.4	4.4	4.4	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
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)