

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: P283562

Luminaire Tested: **LDA2B108040D010 EU2B10FL408040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283562  
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 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: 1002.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 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

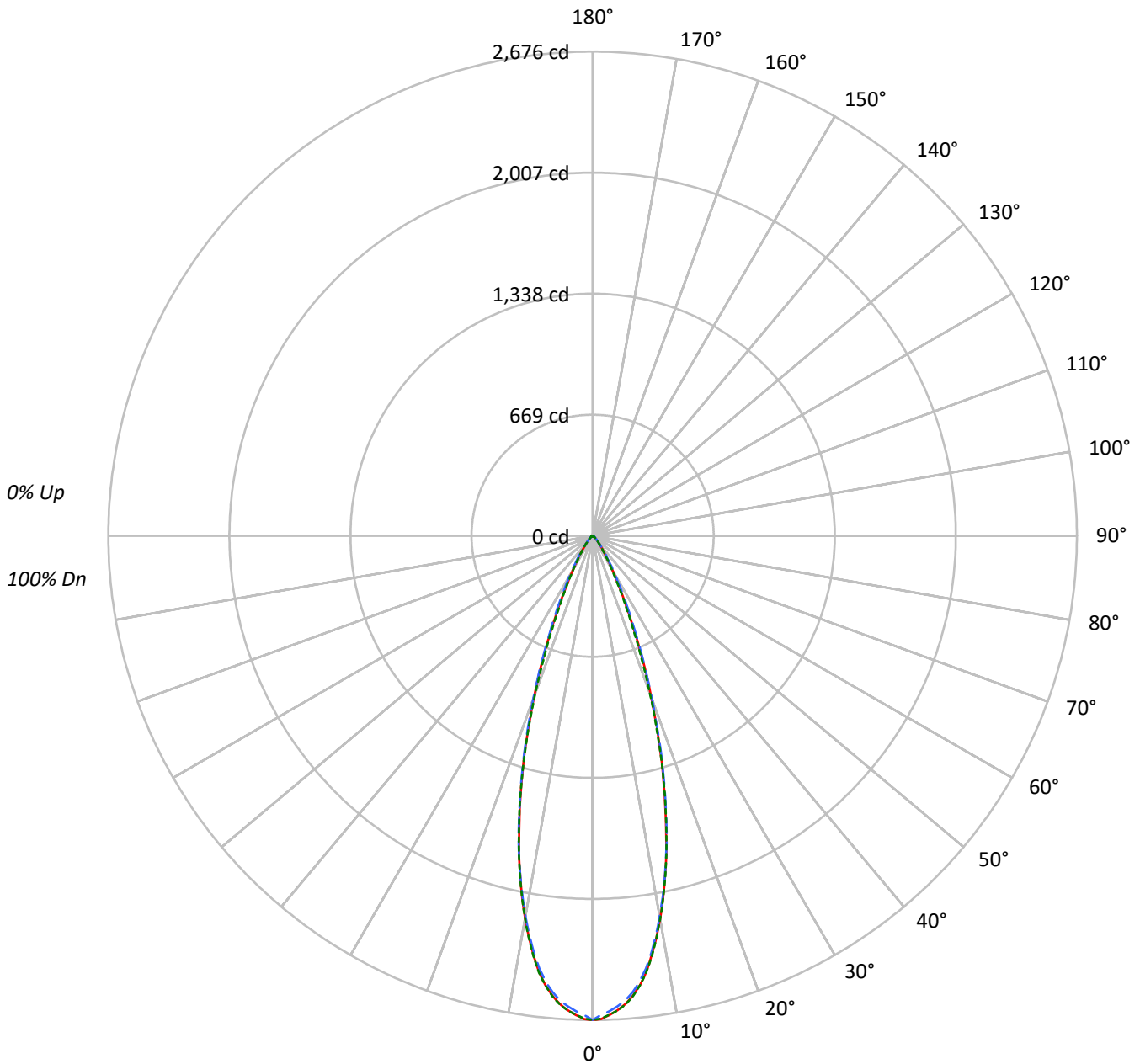
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

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

	0°	45°	90°
0°	1320236	1320236	1320236
5°	1263472	1253964	1265404
10°	1076390	1069627	1077542
15°	793372	798531	795977
20°	495256	504444	484335
25°	255851	274523	243004
30°	122653	140598	116899
35°	63300	70106	59265
40°	35486	37290	33683
45°	21560	21560	20792
50°	11206	13816	11206
55°	5763	9204	6279
60°	6611	6611	6611
65°	7238	7238	7238
70°	8943	8078	8943
75°	8578	8578	8578
80°	7955	7955	7955
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.2	23.0
10°-20°	422.8	42.2
20°-30°	229.2	22.9
30°-40°	73.6	7.3
40°-50°	25.1	2.5
50°-60°	8.8	0.9
60°-70°	6.4	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°	882.2	88.0
0°-40°	955.8	95.4
0°-60°	989.6	98.8
0°-90°	1002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1002.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2676	2676	2676	2676	2676	
5°	2551	2535	2532	2557	2555	231
15°	1553	1566	1563	1571	1558	421
25°	470	491	504	469	446	225
35°	105	110	116	106	98	71
45°	31	32	31	31	30	25
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°	2676.0	2676.0	2676.0	2676.0	2676.0
1°	2671.5	2652.3	2649.5	2674.3	2668.6
2°	2650.1	2632.1	2629.3	2654.0	2649.0
3°	2626.5	2610.2	2604.6	2630.4	2627.0
4°	2595.0	2579.8	2574.8	2600.6	2597.8
5°	2551.2	2535.4	2532.0	2557.3	2555.1
6°	2497.2	2484.3	2478.1	2503.4	2498.9
7°	2429.7	2417.9	2411.2	2429.7	2432.0
8°	2342.0	2336.4	2328.5	2347.1	2347.1
9°	2248.7	2243.6	2235.2	2252.1	2252.1
10°	2148.6	2145.3	2135.1	2150.9	2150.9
11°	2039.0	2037.3	2030.0	2042.9	2042.9
12°	1923.8	1927.7	1921.0	1932.2	1928.3
13°	1808.5	1806.8	1807.4	1815.8	1809.6
14°	1678.1	1688.2	1689.9	1695.0	1685.4
15°	1553.3	1566.2	1563.4	1570.7	1558.4
16°	1425.7	1440.3	1439.7	1441.4	1429.6
17°	1306.5	1314.9	1315.5	1313.8	1299.2
18°	1179.4	1191.3	1191.3	1188.4	1171.0
19°	1055.2	1064.2	1070.4	1064.2	1044.0
20°	943.3	949.5	960.8	945.0	922.5
21°	836.0	841.6	851.1	832.6	807.8
22°	733.1	740.4	749.4	728.0	702.2
23°	636.9	653.8	657.2	628.0	606.0
24°	548.7	567.8	573.4	543.6	520.6
25°	470.0	491.3	504.3	469.4	446.4
26°	402.0	422.8	438.5	403.6	381.7
27°	342.4	364.3	380.6	348.0	327.2
28°	291.2	312.6	329.4	299.1	279.4
29°	253.0	265.3	282.2	256.9	238.9
30°	215.3	228.8	246.8	220.9	205.2
32.5°	147.9	155.2	169.2	153.5	141.1
35°	105.1	109.6	116.4	105.7	98.4
37.5°	74.8	77.0	81.0	74.8	70.8
40°	55.1	56.2	57.9	54.5	52.3
42.5°	41.0	41.6	41.6	40.5	39.4
45°	30.9	31.5	30.9	30.9	29.8
47.5°	22.5	24.2	23.6	23.6	21.9
50°	14.6	18.0	18.0	17.4	14.6
52.5°	9.0	12.4	14.1	12.4	9.6
55°	6.7	8.4	10.7	8.4	7.3
57.5°	6.7	6.7	7.9	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°	6.2	6.2	6.2	6.2	6.2
70°	6.2	6.2	5.6	6.2	6.2
72.5°	5.6	5.6	5.1	5.6	5.1
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°	6.2	6.7	6.2	6.7	6.2



(END OF REPORT)