

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: P283569

Luminaire Tested: **LDA2B108050D010 EU2B10FL408050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283569  
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 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 963.6 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

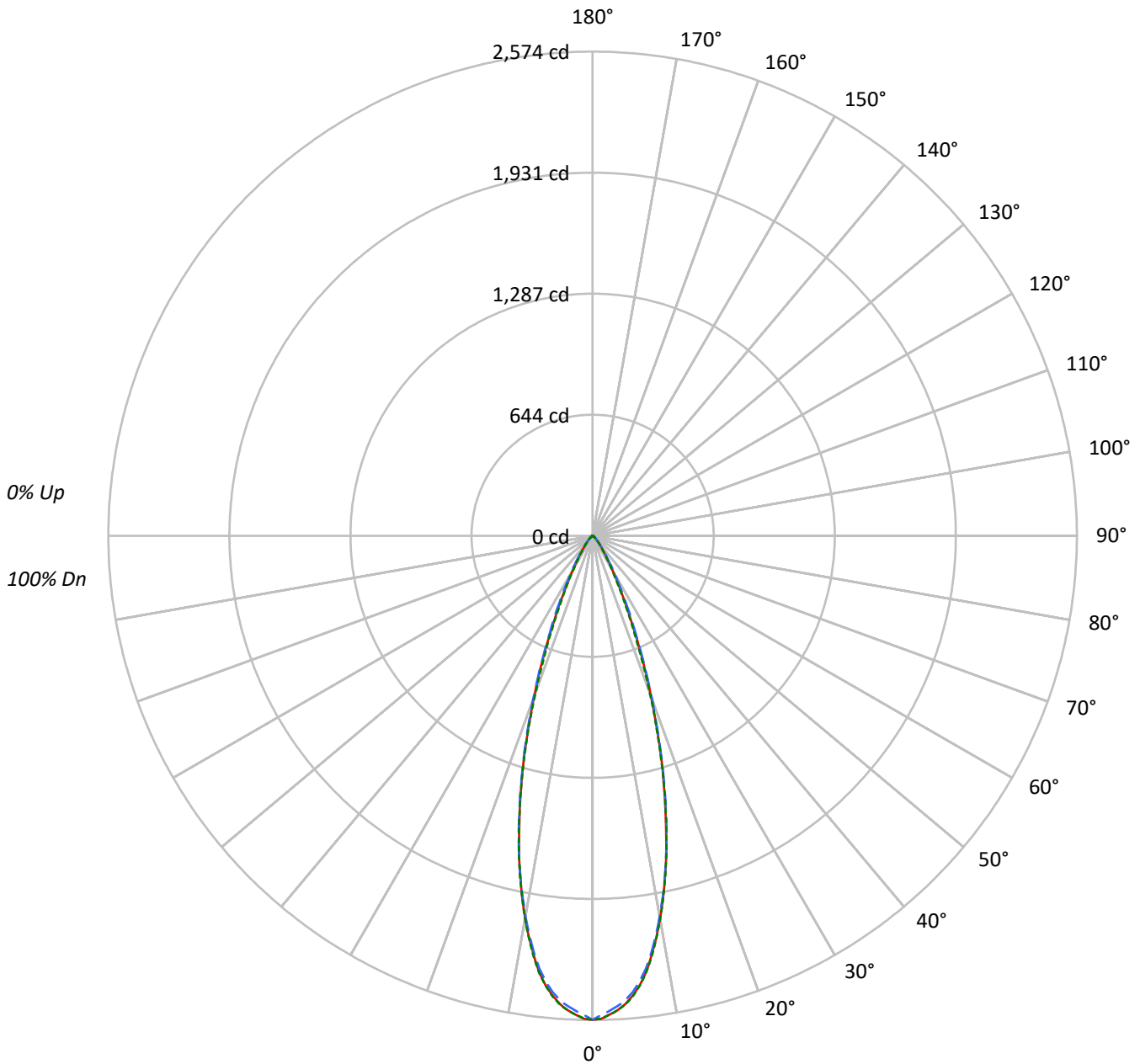
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1269667	1269667	1269667
5°	1215087	1205974	1216919
10°	1035160	1028697	1036262
15°	762982	767936	765485
20°	476302	485123	465802
25°	246053	264017	233696
30°	117982	135186	112399
35°	60891	67396	56976
40°	34134	35873	32395
45°	20722	20722	20025
50°	10822	13278	10822
55°	5591	8860	6021
60°	6414	6414	6414
65°	6888	6888	6888
70°	8511	7789	8511
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.4	23.0
10°-20°	406.6	42.2
20°-30°	220.4	22.9
30°-40°	70.8	7.3
40°-50°	24.1	2.5
50°-60°	8.5	0.9
60°-70°	6.1	0.6
70°-80°	4.5	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°	848.4	88.0
0°-40°	919.1	95.4
0°-60°	951.7	98.8
0°-90°	963.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2454	2438	2435	2459	2457	222
15°	1494	1506	1504	1511	1499	405
25°	452	472	485	451	429	217
35°	101	105	112	102	95	68
45°	30	30	30	30	29	24
55°	6	8	10	8	7	7
65°	6	6	6	6	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°	2573.5	2573.5	2573.5	2573.5	2573.5
1°	2569.1	2550.8	2548.1	2571.9	2566.4
2°	2548.6	2531.3	2528.6	2552.4	2547.5
3°	2525.9	2510.2	2504.8	2529.7	2526.4
4°	2495.6	2481.0	2476.2	2501.0	2498.3
5°	2453.5	2438.3	2435.1	2459.4	2457.2
6°	2401.5	2389.1	2383.2	2407.5	2403.2
7°	2336.7	2325.3	2318.8	2336.7	2338.8
8°	2252.3	2246.9	2239.4	2257.2	2257.2
9°	2162.6	2157.7	2149.6	2165.8	2165.8
10°	2066.3	2063.1	2053.4	2068.5	2068.5
11°	1960.9	1959.3	1952.3	1964.7	1964.7
12°	1850.1	1853.9	1847.4	1858.2	1854.4
13°	1739.3	1737.6	1738.2	1746.3	1740.3
14°	1613.8	1623.6	1625.2	1630.0	1620.9
15°	1493.8	1506.2	1503.5	1510.6	1498.7
16°	1371.1	1385.1	1384.6	1386.2	1374.9
17°	1256.5	1264.6	1265.1	1263.5	1249.4
18°	1134.3	1145.6	1145.6	1142.9	1126.2
19°	1014.8	1023.4	1029.4	1023.4	1004.0
20°	907.2	913.2	924.0	908.8	887.2
21°	803.9	809.3	818.5	800.7	776.9
22°	705.0	712.0	720.7	700.1	675.3
23°	612.6	628.8	632.0	603.9	582.8
24°	527.7	546.1	551.5	522.8	500.6
25°	452.0	472.5	485.0	451.4	429.3
26°	386.6	406.6	421.7	388.2	367.1
27°	329.3	350.3	366.0	334.7	314.7
28°	280.1	300.6	316.8	287.6	268.7
29°	243.3	255.2	271.4	247.1	229.8
30°	207.1	220.0	237.3	212.5	197.3
32.5°	142.2	149.2	162.7	147.6	135.7
35°	101.1	105.4	111.9	101.6	94.6
37.5°	71.9	74.1	77.9	71.9	68.1
40°	53.0	54.1	55.7	52.4	50.3
42.5°	39.5	40.0	40.0	38.9	37.8
45°	29.7	30.3	29.7	29.7	28.7
47.5°	21.6	23.2	22.7	22.7	21.1
50°	14.1	17.3	17.3	16.8	14.1
52.5°	8.7	11.9	13.5	11.9	9.2
55°	6.5	8.1	10.3	8.1	7.0
57.5°	6.5	6.5	7.6	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.4	5.9	5.9
72.5°	5.4	5.4	4.9	5.4	4.9
75°	4.3	4.3	4.3	4.3	4.3
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	2.2	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°	6.5	6.5	6.5	6.5	6.5
65°	5.9	6.5	5.9	6.5	5.9



(END OF REPORT)