

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: P282675

Luminaire Tested: **LDA2B108050D010 EU2B10NFL258050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108050D010 EU2B10NFL258050 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 943.2 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

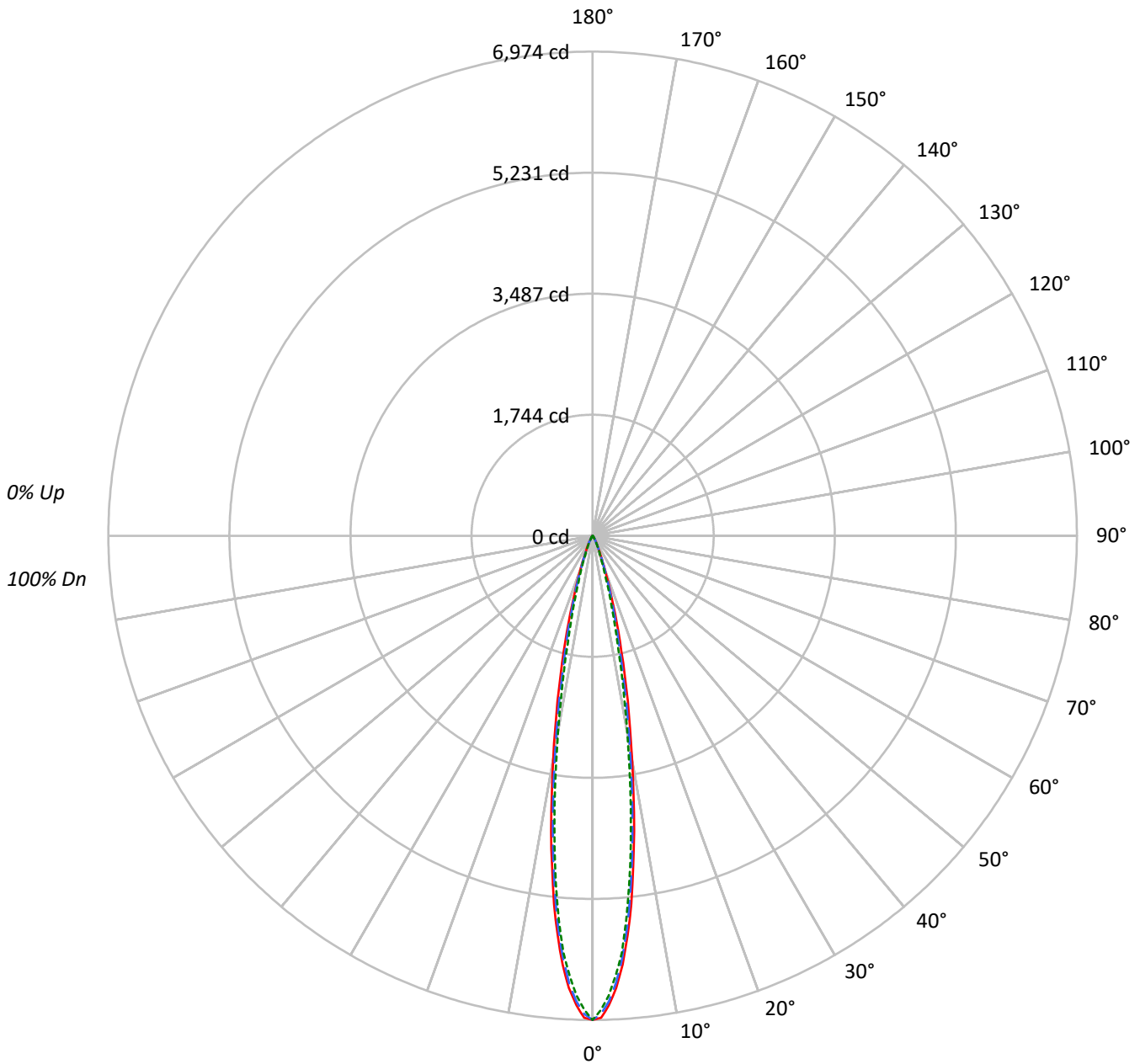
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	3440853	3440853	3440853
5°	2863168	2810672	2753916
10°	1639984	1538938	1436289
15°	729425	647804	542893
20°	264612	248809	197094
25°	101578	94883	81709
30°	43809	40732	36175
35°	20719	20719	17165
40°	10369	10755	8630
45°	6000	5652	5233
50°	4145	3684	3684
55°	3269	2322	2752
60°	2664	1579	2171
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.6	48.1
10°-20°	367.1	38.9
20°-30°	88.5	9.4
30°-40°	22.6	2.4
40°-50°	6.7	0.7
50°-60°	2.9	0.3
60°-70°	1.4	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
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°	909.2	96.4
0°-40°	931.8	98.8
0°-60°	941.4	99.8
0°-90°	943.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6974	6974	6974	6974	6974	
5°	5781	5728	5675	5626	5561	467
15°	1428	1394	1268	1142	1063	407
25°	187	188	174	158	150	96
35°	34	35	34	31	28	24
45°	9	9	8	8	8	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6974.3	6974.3	6974.3	6974.3	6974.3
1°	6943.1	6894.7	6888.8	6918.9	6830.1
2°	6765.6	6731.2	6711.3	6729.0	6628.4
3°	6521.9	6488.6	6452.5	6453.1	6340.7
4°	6190.1	6163.7	6102.9	6084.6	6019.5
5°	5781.3	5728.0	5675.3	5625.8	5560.7
6°	5329.4	5260.6	5185.3	5111.6	5044.9
7°	4798.0	4752.3	4652.8	4552.2	4495.7
8°	4298.3	4224.6	4108.4	3982.5	3934.7
9°	3760.9	3708.2	3574.8	3428.5	3380.6
10°	3273.6	3218.7	3071.9	2908.9	2867.0
11°	2816.4	2764.8	2612.0	2441.0	2396.3
12°	2429.7	2356.5	2181.2	2032.7	1989.1
13°	2044.5	1994.5	1828.3	1681.4	1597.0
14°	1717.0	1675.5	1524.9	1395.8	1306.5
15°	1428.1	1394.2	1268.3	1142.5	1062.9
16°	1171.5	1150.6	1051.0	929.5	864.4
17°	950.5	931.1	867.6	755.7	700.9
18°	767.6	764.9	712.2	615.3	566.4
19°	631.5	630.4	582.0	500.8	460.4
20°	504.0	511.0	473.9	402.9	375.4
21°	410.9	414.7	385.1	331.3	306.6
22°	334.6	337.3	317.9	273.8	260.3
23°	274.3	275.9	259.8	227.0	215.2
24°	225.9	227.0	212.5	189.3	179.1
25°	186.6	187.7	174.3	158.1	150.1
26°	154.9	156.0	144.2	132.9	124.8
27°	128.6	130.7	118.9	111.9	103.3
28°	109.7	110.3	99.5	95.2	87.1
29°	89.8	93.1	83.9	80.1	74.2
30°	76.9	78.5	71.5	68.9	63.5
32.5°	51.1	52.2	48.9	46.8	42.5
35°	34.4	35.0	34.4	31.2	28.5
37.5°	23.7	23.7	24.2	20.4	19.4
40°	16.1	16.1	16.7	14.0	13.4
42.5°	11.8	11.8	11.3	9.7	9.7
45°	8.6	8.6	8.1	7.5	7.5
47.5°	7.0	6.5	5.9	5.9	5.9
50°	5.4	5.4	4.8	4.3	4.8
52.5°	4.3	4.3	3.8	3.8	3.8
55°	3.8	3.2	2.7	2.7	3.2
57.5°	2.7	2.7	2.2	2.2	2.7
60°	2.7	2.2	1.6	2.2	2.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.2	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)