

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: P282674

Luminaire Tested: **LDA2B108050D010 EU2B10NFL258050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282674  
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 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 956.6 lumens  
Efficiency: N/A  
Efficacy: 95.7 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

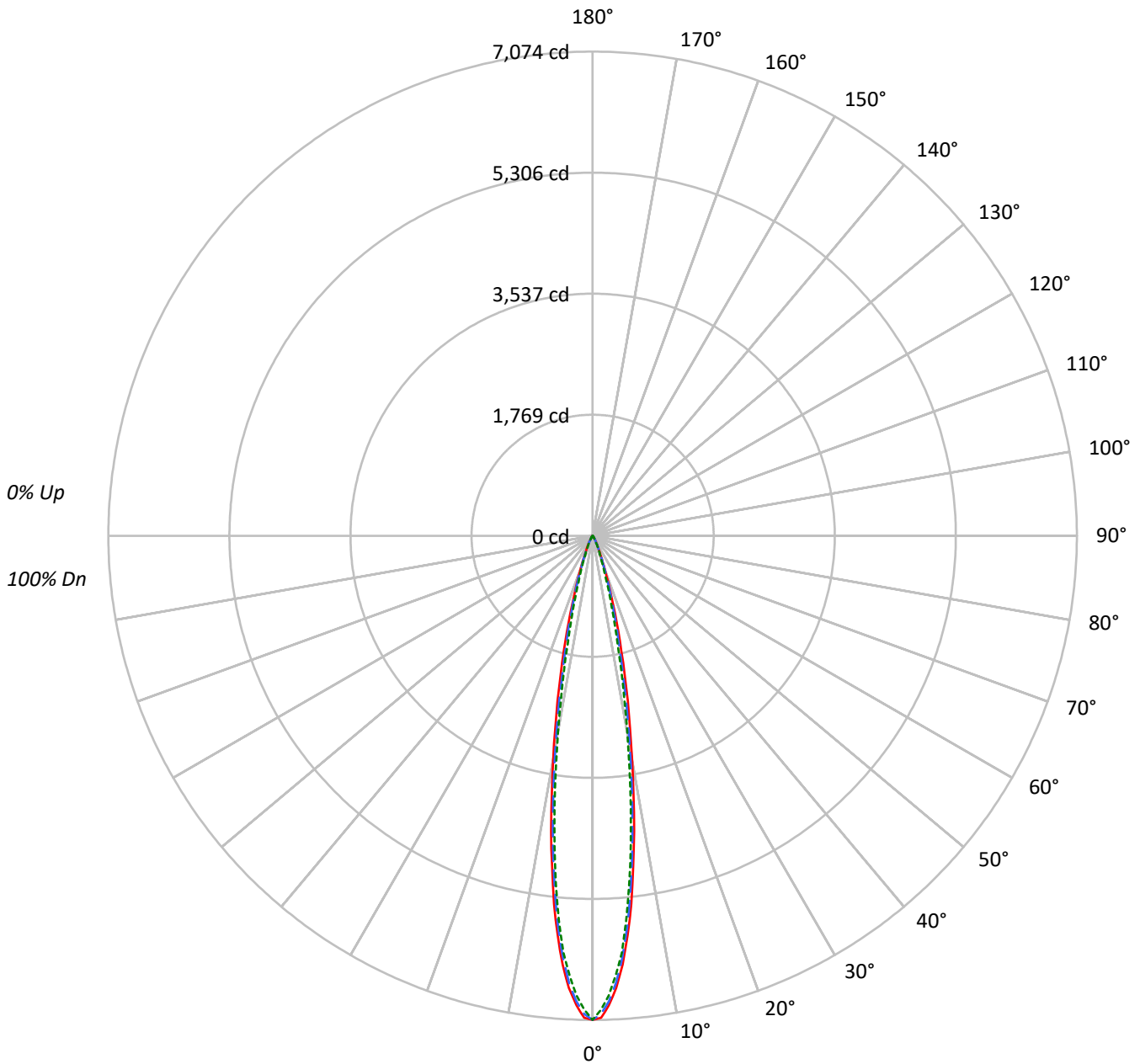
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

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

	0°	45°	90°
0°	3489943	3489943	3489943
5°	2903976	2850787	2793239
10°	1663380	1560881	1456778
15°	739844	657049	550605
20°	268393	252327	199929
25°	103048	96244	82852
30°	44435	41359	36688
35°	21020	21020	17406
40°	10562	10884	8759
45°	6070	5721	5303
50°	4221	3761	3761
55°	3269	2322	2838
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°	460.1	48.1
10°-20°	372.3	38.9
20°-30°	89.8	9.4
30°-40°	22.9	2.4
40°-50°	6.8	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°	922.2	96.4
0°-40°	945.1	98.8
0°-60°	954.8	99.8
0°-90°	956.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7074	7074	7074	7074	7074	
5°	5864	5810	5756	5706	5640	474
15°	1448	1414	1286	1159	1078	413
25°	189	190	177	160	152	98
35°	35	36	35	32	29	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°	7073.8	7073.8	7073.8	7073.8	7073.8
1°	7042.2	6993.1	6987.1	7017.6	6927.6
2°	6862.1	6827.2	6807.0	6825.0	6723.0
3°	6615.0	6581.2	6544.6	6545.2	6431.1
4°	6278.4	6251.6	6190.0	6171.4	6105.4
5°	5863.7	5809.7	5756.3	5706.1	5640.1
6°	5405.5	5335.6	5259.3	5184.5	5116.9
7°	4866.5	4820.1	4719.1	4617.1	4559.8
8°	4359.6	4284.9	4167.0	4039.4	3990.8
9°	3814.6	3761.1	3625.8	3477.4	3428.9
10°	3320.3	3264.7	3115.7	2950.4	2907.9
11°	2856.6	2804.2	2649.3	2475.8	2430.5
12°	2464.3	2390.1	2212.3	2061.7	2017.5
13°	2073.7	2023.0	1854.4	1705.4	1619.8
14°	1741.4	1699.4	1546.7	1415.7	1325.2
15°	1448.5	1414.1	1286.4	1158.8	1078.0
16°	1188.2	1167.0	1066.0	942.7	876.7
17°	964.0	944.4	880.0	766.5	710.9
18°	778.5	775.8	722.3	624.1	574.5
19°	640.5	639.4	590.3	507.9	467.0
20°	511.2	518.3	480.6	408.6	380.8
21°	416.8	420.6	390.6	336.1	311.0
22°	339.3	342.1	322.4	277.7	264.1
23°	278.2	279.9	263.5	230.2	218.2
24°	229.1	230.2	215.5	192.0	181.7
25°	189.3	190.4	176.8	160.4	152.2
26°	157.1	158.2	146.2	134.8	126.6
27°	130.4	132.6	120.6	113.5	104.7
28°	111.3	111.8	100.9	96.6	88.4
29°	91.1	94.4	85.1	81.3	75.3
30°	78.0	79.7	72.6	69.8	64.4
32.5°	51.8	52.9	49.6	47.5	43.1
35°	34.9	35.5	34.9	31.6	28.9
37.5°	24.0	24.0	24.6	20.7	19.6
40°	16.4	16.4	16.9	14.2	13.6
42.5°	12.0	12.0	11.5	9.8	9.8
45°	8.7	8.7	8.2	7.6	7.6
47.5°	7.1	6.5	6.0	6.0	6.0
50°	5.5	5.5	4.9	4.4	4.9
52.5°	4.4	4.4	3.8	3.8	3.8
55°	3.8	3.3	2.7	2.7	3.3
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)