

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: P282309

Luminaire Tested: **LDA2B158050D010 EU2B15NFL258050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282309  
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: LDA2B158050D010 EU2B15NFL258050 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1365.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 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

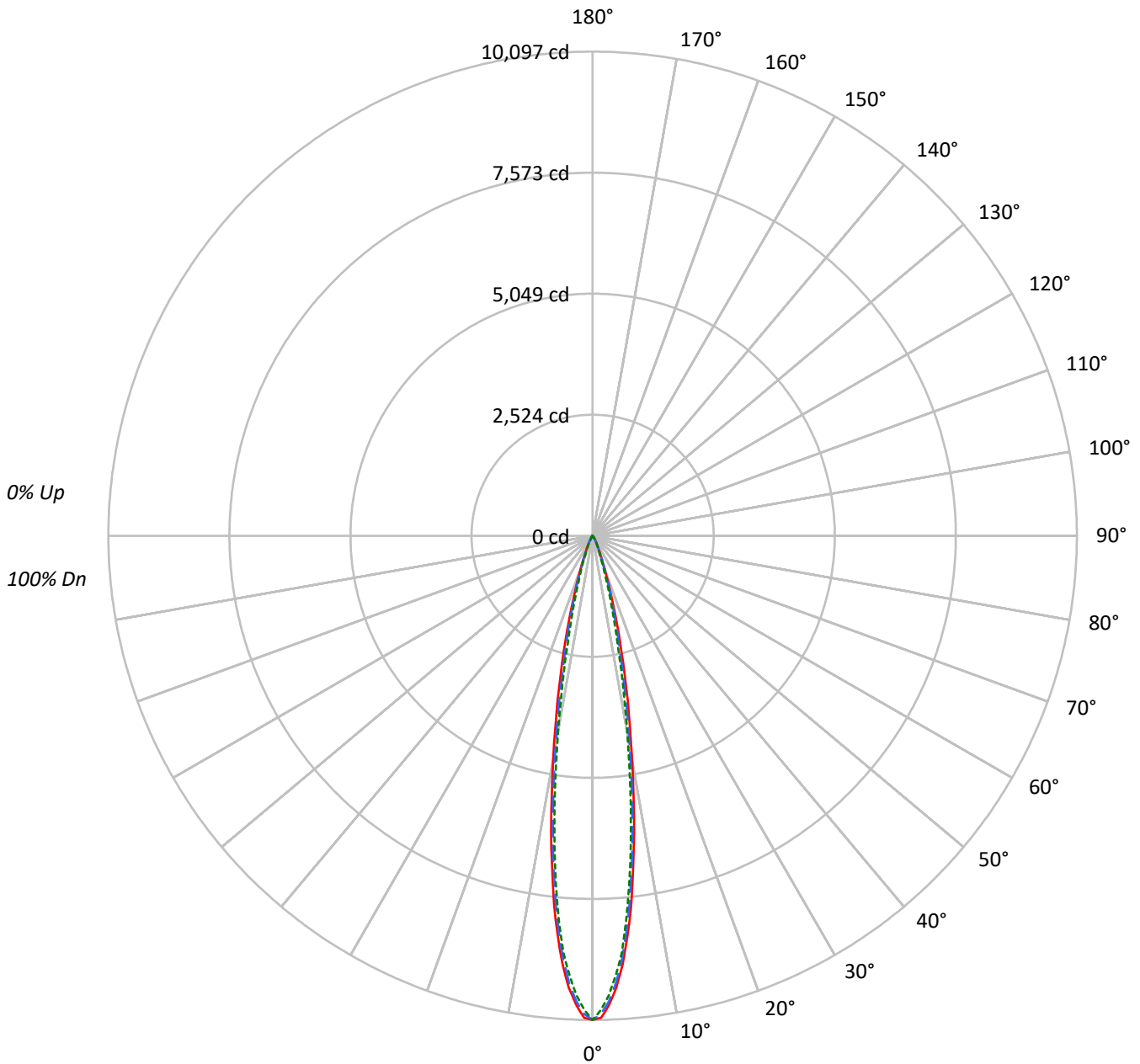
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4981671	4981671	4981671
5°	4145261	4069291	3987129
10°	2374360	2228076	2079437
15°	1056059	937919	785966
20°	383110	360219	285403
25°	147087	137343	118290
30°	63463	59019	52354
35°	29994	29994	24874
40°	15070	15521	12559
45°	8721	8163	7605
50°	5987	5373	5373
55°	4731	3355	4043
60°	3848	2269	3059
65°	2685	1868	2685
70°	2308	1154	2308
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.7	48.1
10°-20°	531.5	38.9
20°-30°	128.2	9.4
30°-40°	32.7	2.4
40°-50°	9.7	0.7
50°-60°	4.2	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.1
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°	1316.3	96.4
0°-40°	1349.0	98.8
0°-60°	1362.9	99.8
0°-90°	1365.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10097	10097	10097	10097	10097	
5°	8370	8293	8217	8145	8051	677
15°	2068	2019	1836	1654	1539	590
25°	270	272	252	229	217	140
35°	50	51	50	45	41	34
45°	12	12	12	11	11	11
55°	6	5	4	4	5	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	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°	10097.4	10097.4	10097.4	10097.4	10097.4
1°	10052.3	9982.2	9973.6	10017.2	9888.7
2°	9795.3	9745.4	9716.6	9742.3	9596.7
3°	9442.5	9394.2	9342.0	9342.8	9180.0
4°	8962.0	8923.8	8835.8	8809.4	8715.1
5°	8370.1	8293.0	8216.7	8145.1	8050.8
6°	7716.0	7616.3	7507.3	7400.6	7304.0
7°	6946.6	6880.4	6736.3	6590.7	6508.9
8°	6223.1	6116.4	5948.2	5766.0	5696.6
9°	5445.1	5368.8	5175.7	4963.8	4894.5
10°	4739.5	4660.1	4447.5	4211.5	4150.8
11°	4077.6	4002.8	3781.7	3534.0	3469.4
12°	3517.7	3411.8	3157.9	2942.9	2879.9
13°	2960.1	2887.6	2647.0	2434.4	2312.1
14°	2485.8	2425.8	2207.8	2020.9	1891.6
15°	2067.6	2018.6	1836.3	1654.1	1538.8
16°	1696.1	1665.8	1521.7	1345.7	1251.5
17°	1376.1	1348.0	1256.1	1094.2	1014.7
18°	1111.3	1107.4	1031.1	890.9	820.0
19°	914.3	912.7	842.6	725.0	666.6
20°	729.7	739.8	686.1	583.3	543.6
21°	595.0	600.4	557.6	479.7	443.9
22°	484.4	488.3	460.2	396.4	376.9
23°	397.2	399.5	376.1	328.6	311.5
24°	327.1	328.6	307.6	274.1	259.3
25°	270.2	271.8	252.3	229.0	217.3
26°	224.3	225.8	208.7	192.4	180.7
27°	186.1	189.2	172.1	162.0	149.5
28°	158.9	159.6	144.1	137.8	126.2
29°	130.1	134.7	121.5	116.0	107.5
30°	111.4	113.7	103.6	99.7	91.9
32.5°	74.0	75.5	70.9	67.8	61.5
35°	49.8	50.6	49.8	45.2	41.3
37.5°	34.3	34.3	35.0	29.6	28.0
40°	23.4	23.4	24.1	20.2	19.5
42.5°	17.1	17.1	16.4	14.0	14.0
45°	12.5	12.5	11.7	10.9	10.9
47.5°	10.1	9.3	8.6	8.6	8.6
50°	7.8	7.8	7.0	6.2	7.0
52.5°	6.2	6.2	5.5	5.5	5.5
55°	5.5	4.7	3.9	3.9	4.7
57.5°	3.9	3.9	3.1	3.1	3.9
60°	3.9	3.1	2.3	3.1	3.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	1.6	1.6	1.6	1.6
70°	1.6	1.6	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
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°	3.1	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.6	1.6	2.3



(END OF REPORT)