

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: P282212

Luminaire Tested: **LDA2B108035D010 EU2B10NFL258035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282212  
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: LDA2B108035D010 EU2B10NFL258035 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1003.2 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

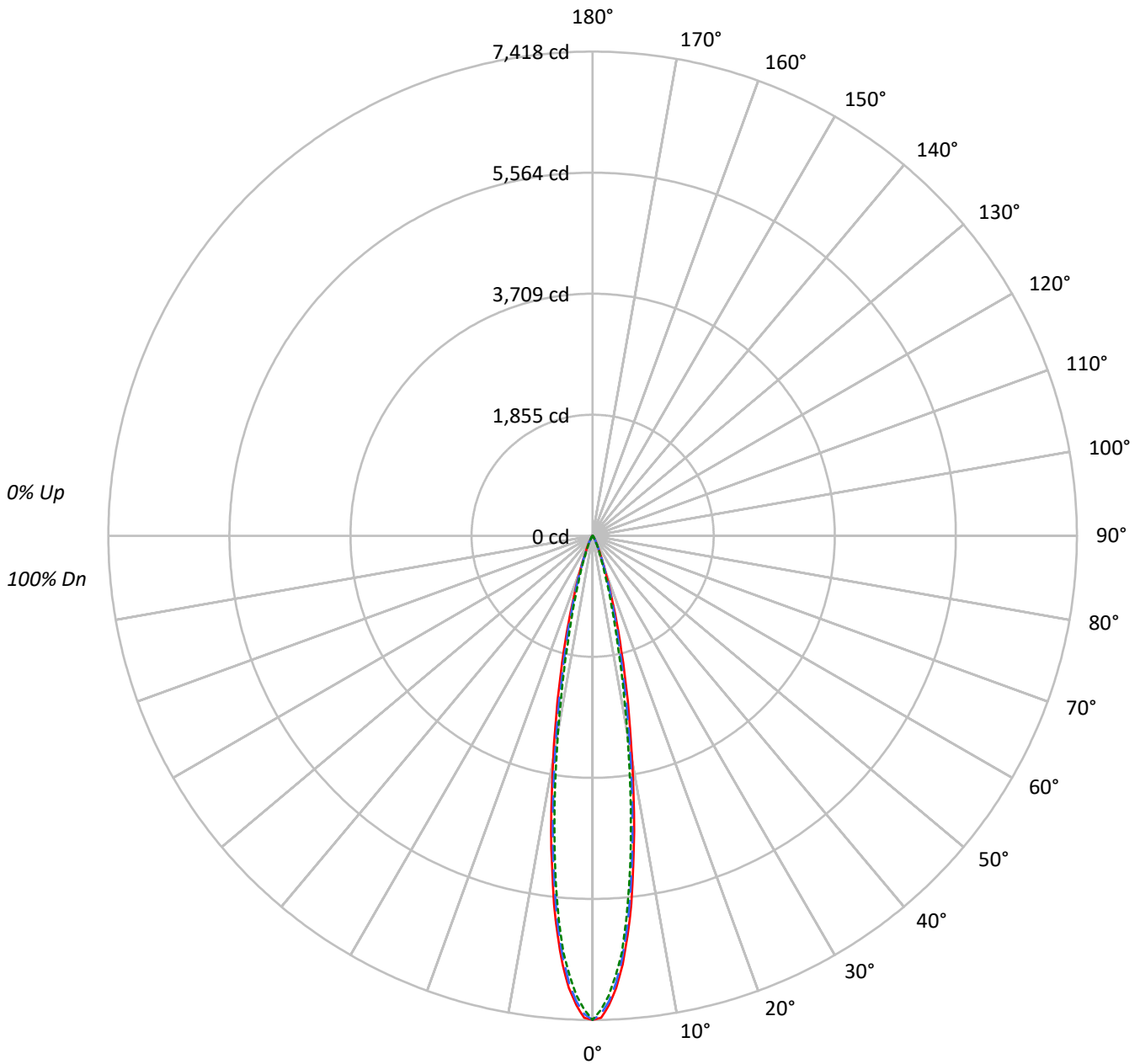
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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°	3659659	3659659	3659659
5°	3045220	2989406	2929035
10°	1744287	1636778	1527616
15°	775802	689023	577421
20°	281466	264612	209642
25°	108056	100925	86881
30°	46600	43353	38454
35°	22044	22044	18249
40°	11077	11399	9210
45°	6419	6000	5582
50°	4375	3914	3914
55°	3441	2494	2925
60°	2861	1677	2269
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.4	48.1
10°-20°	390.4	38.9
20°-30°	94.1	9.4
30°-40°	24.0	2.4
40°-50°	7.2	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	967.0	96.4
0°-40°	991.0	98.8
0°-60°	1001.2	99.8
0°-90°	1003.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1003.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7418	7418	7418	7418	7418	
5°	6149	6092	6036	5984	5914	497
15°	1519	1483	1349	1215	1130	433
25°	198	200	185	168	160	103
35°	37	37	37	33	30	25
45°	9	9	9	8	8	8
55°	4	3	3	3	3	4
65°	2	2	1	1	2	2
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°	7417.8	7417.8	7417.8	7417.8	7417.8
1°	7384.6	7333.1	7326.8	7358.9	7264.5
2°	7195.8	7159.2	7138.1	7156.9	7050.0
3°	6936.7	6901.2	6862.9	6863.4	6743.9
4°	6583.7	6555.7	6491.0	6471.6	6402.3
5°	6148.9	6092.3	6036.2	5983.6	5914.3
6°	5668.3	5595.1	5515.0	5436.6	5365.7
7°	5103.1	5054.5	4948.6	4841.7	4781.6
8°	4571.6	4493.3	4369.7	4235.8	4184.9
9°	4000.1	3944.0	3802.2	3646.5	3595.6
10°	3481.8	3423.4	3267.2	3093.9	3049.3
11°	2995.5	2940.6	2778.1	2596.2	2548.7
12°	2584.2	2506.4	2319.9	2162.0	2115.6
13°	2174.5	2121.3	1944.6	1788.4	1698.6
14°	1826.1	1782.1	1621.9	1484.6	1389.6
15°	1518.9	1482.9	1349.0	1215.1	1130.5
16°	1246.0	1223.7	1117.9	988.6	919.4
17°	1010.9	990.3	922.8	803.8	745.4
18°	816.4	813.5	757.5	654.5	602.4
19°	671.6	670.5	619.0	532.6	489.7
20°	536.1	543.5	504.0	428.5	399.3
21°	437.1	441.1	409.6	352.4	326.1
22°	355.8	358.7	338.1	291.2	276.9
23°	291.8	293.5	276.3	241.4	228.8
24°	240.3	241.4	226.0	201.4	190.5
25°	198.5	199.7	185.4	168.2	159.6
26°	164.8	165.9	153.3	141.3	132.7
27°	136.7	139.0	126.4	119.0	109.8
28°	116.7	117.3	105.8	101.3	92.7
29°	95.5	99.0	89.2	85.2	78.9
30°	81.8	83.5	76.1	73.2	67.5
32.5°	54.3	55.5	52.1	49.8	45.2
35°	36.6	37.2	36.6	33.2	30.3
37.5°	25.2	25.2	25.7	21.7	20.6
40°	17.2	17.2	17.7	14.9	14.3
42.5°	12.6	12.6	12.0	10.3	10.3
45°	9.2	9.2	8.6	8.0	8.0
47.5°	7.4	6.9	6.3	6.3	6.3
50°	5.7	5.7	5.1	4.6	5.1
52.5°	4.6	4.6	4.0	4.0	4.0
55°	4.0	3.4	2.9	2.9	3.4
57.5°	2.9	2.9	2.3	2.3	2.9
60°	2.9	2.3	1.7	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.3	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)