

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: P284002

Luminaire Tested: **LDA2B159027D010 EU2B15WFL559027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B159027D010 EU2B15WFL559027 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1015.1 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

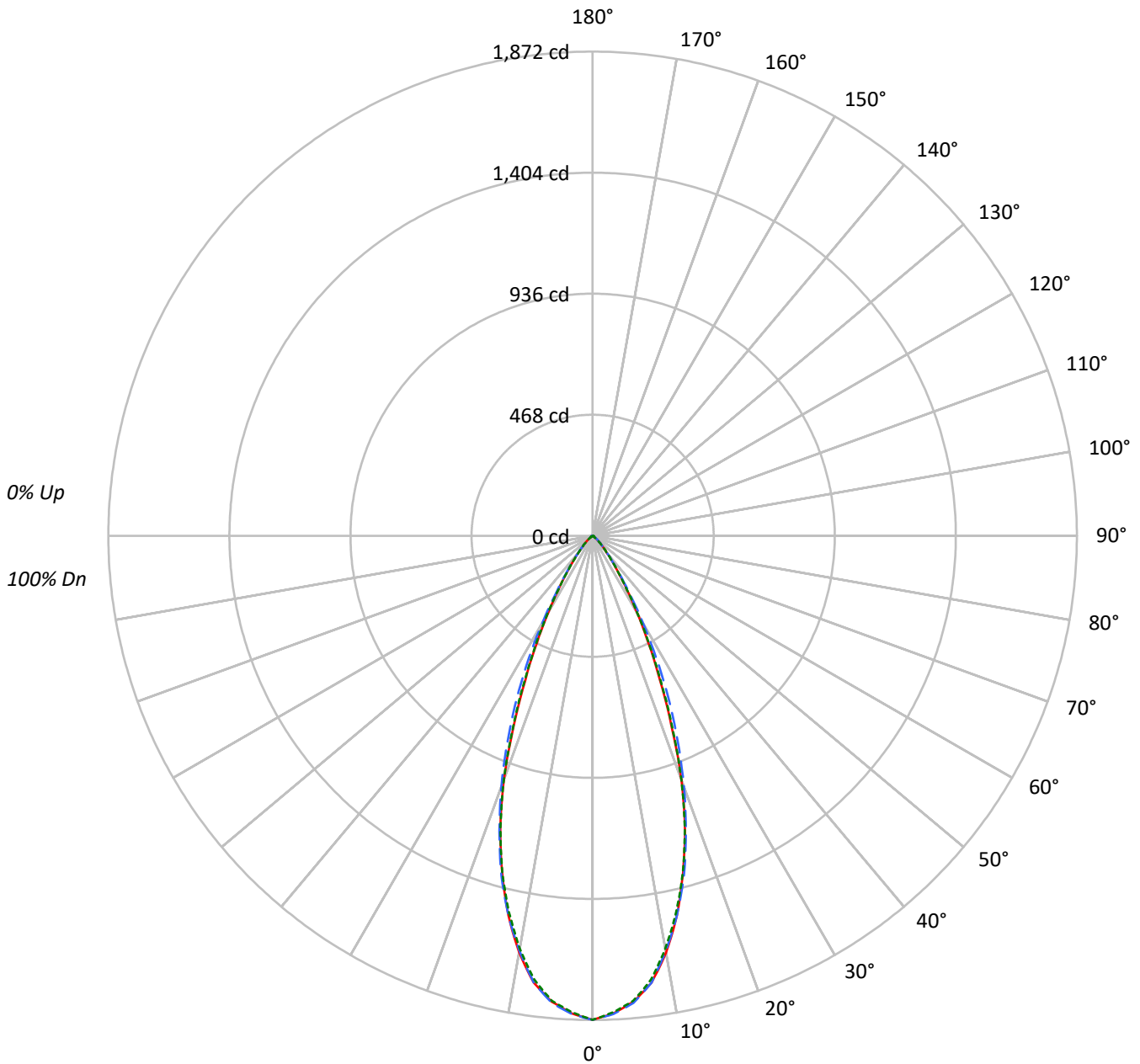
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	923376	923376	923376
5°	895653	897783	893771
10°	819842	816535	811626
15°	689585	695969	688461
20°	527335	541353	526495
25°	334893	377571	341371
30°	194775	219898	198193
35°	102930	109495	103292
40°	54357	56804	54357
45°	30421	31537	30769
50°	14199	17960	14199
55°	5161	9806	5591
60°	5920	5920	5920
65°	6304	7004	6304
70°	7789	7068	7789
75°	7244	7244	7244
80°	7671	6251	7671
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	16.5
10°-20°	372.0	36.6
20°-30°	300.4	29.6
30°-40°	118.7	11.7
40°-50°	36.5	3.6
50°-60°	9.4	0.9
60°-70°	5.7	0.6
70°-80°	4.2	0.4
80°-90°	1.2	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°	839.5	82.7
0°-40°	958.2	94.4
0°-60°	1004.1	98.9
0°-90°	1015.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1015.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1808	1812	1813	1809	1805	167
15°	1350	1354	1363	1357	1348	371
25°	615	645	694	656	627	286
35°	171	176	182	176	172	114
45°	44	44	45	45	44	36
55°	6	8	11	8	6	8
65°	5	6	6	6	5	6
75°	4	4	4	4	4	4
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°	1871.6	1871.6	1871.6	1871.6	1871.6
2.5°	1848.2	1849.3	1851.0	1848.8	1843.3
5°	1808.5	1811.8	1812.8	1809.0	1804.7
7.5°	1743.2	1739.3	1742.6	1736.1	1730.6
10°	1636.5	1631.6	1629.9	1620.1	1620.1
12.5°	1504.7	1503.1	1504.2	1499.3	1491.6
15°	1350.1	1353.9	1362.6	1357.2	1347.9
17.5°	1186.2	1191.7	1199.3	1197.7	1185.2
20°	1004.4	1020.2	1031.1	1020.7	1002.8
22.5°	797.5	831.3	859.1	837.3	807.9
25°	615.2	644.6	693.6	656.5	627.1
27.5°	466.5	487.8	532.4	495.9	475.8
30°	341.9	354.9	386.0	362.0	347.9
32.5°	244.4	253.7	266.8	252.6	245.5
35°	170.9	175.8	181.8	176.4	171.5
37.5°	120.3	121.9	126.3	121.9	119.8
40°	84.4	84.9	88.2	85.5	84.4
42.5°	61.0	61.0	62.6	61.5	61.0
45°	43.6	44.1	45.2	44.6	44.1
47.5°	31.0	32.1	32.1	32.7	30.5
50°	18.5	22.9	23.4	22.9	18.5
52.5°	9.8	13.6	16.9	13.6	9.8
55°	6.0	8.2	11.4	8.2	6.5
57.5°	6.0	6.0	7.6	6.5	6.0
60°	6.0	6.0	6.0	6.0	6.0
62.5°	6.0	6.0	6.0	6.0	6.0
65°	5.4	6.0	6.0	6.0	5.4
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.9	5.4	5.4
72.5°	4.9	4.9	4.4	4.9	4.9
75°	3.8	3.8	3.8	3.8	3.8
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.7	2.7	2.2	2.7	2.7
82.5°	1.6	1.6	1.6	1.6	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°







(END OF REPORT)