

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: P283989

Luminaire Tested: **LDA2B158050D010 EU2B15WFL558050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283989  
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: LDA2B158050D010 EU2B15WFL558050 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1346.8 lumens  
Efficiency: N/A  
Efficacy: 95.5 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

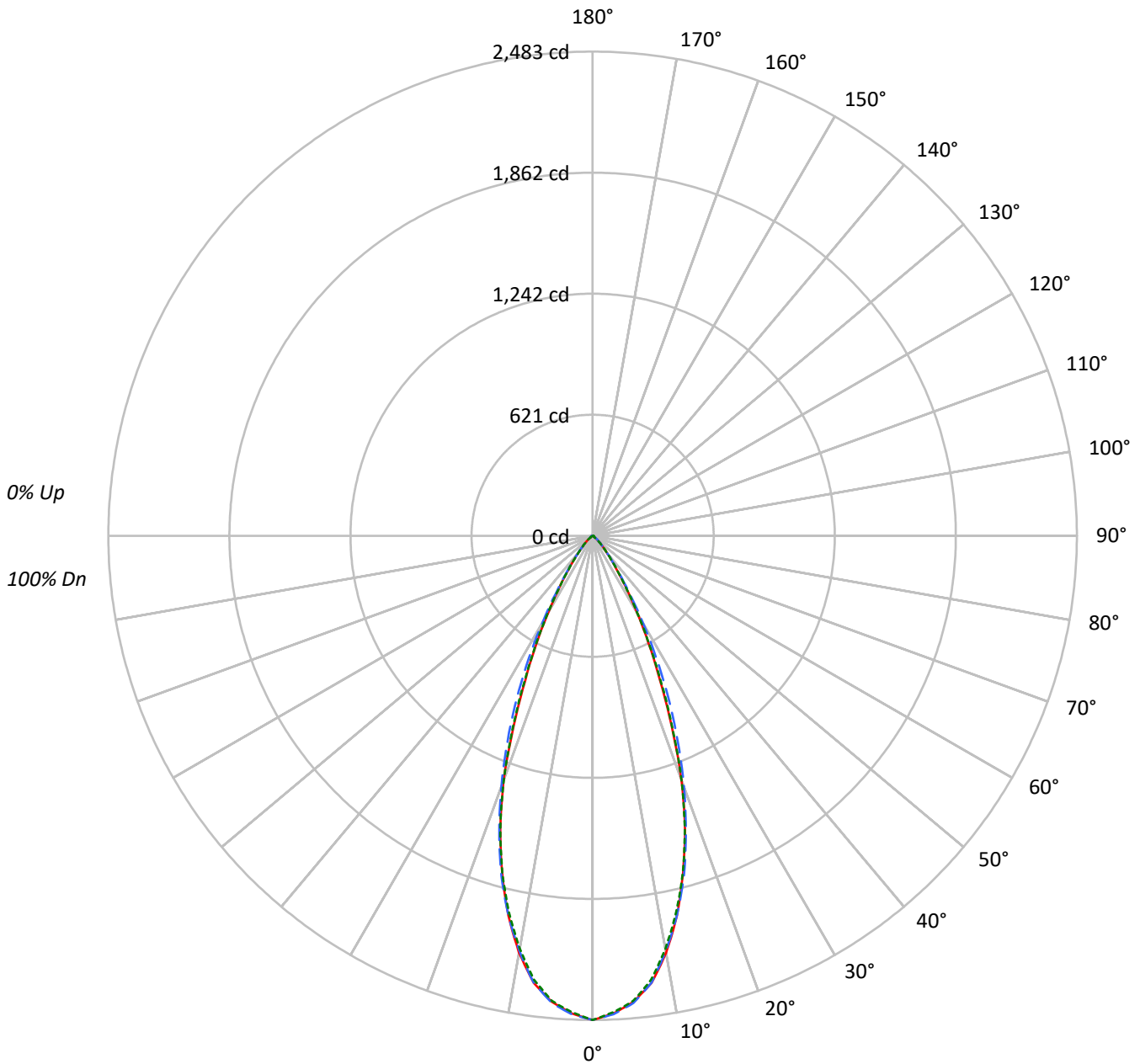
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1225116	1225116	1225116
5°	1188344	1191167	1185818
10°	1087712	1083353	1076841
15°	914935	923413	913453
20°	699648	718234	698545
25°	444310	500924	452966
30°	258409	291736	262910
35°	136598	145271	137020
40°	72132	75352	72132
45°	40328	41863	40817
50°	18881	23870	18881
55°	6795	13074	7483
60°	7795	7795	7795
65°	8405	9222	8405
70°	10386	9376	10386
75°	9722	9722	9722
80°	10228	8239	10228
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.7	16.5
10°-20°	493.5	36.6
20°-30°	398.6	29.6
30°-40°	157.5	11.7
40°-50°	48.4	3.6
50°-60°	12.5	0.9
60°-70°	7.5	0.6
70°-80°	5.5	0.4
80°-90°	1.6	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°	1113.8	82.7
0°-40°	1271.3	94.4
0°-60°	1332.2	98.9
0°-90°	1346.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2483	2483	2483	2483	2483	
5°	2400	2404	2405	2400	2394	222
15°	1791	1796	1808	1801	1788	492
25°	816	855	920	871	832	380
35°	227	233	241	234	228	152
45°	58	58	60	59	58	47
55°	8	11	15	11	9	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2483.2	2483.2	2483.2	2483.2	2483.2
2.5°	2452.2	2453.6	2455.8	2452.9	2445.7
5°	2399.5	2403.8	2405.2	2400.2	2394.4
7.5°	2312.8	2307.7	2312.1	2303.4	2296.2
10°	2171.2	2164.7	2162.5	2149.5	2149.5
12.5°	1996.4	1994.3	1995.7	1989.2	1979.1
15°	1791.3	1796.3	1807.9	1800.7	1788.4
17.5°	1573.9	1581.1	1591.2	1589.0	1572.4
20°	1332.6	1353.6	1368.0	1354.3	1330.5
22.5°	1058.2	1102.9	1139.8	1110.9	1071.9
25°	816.2	855.2	920.2	871.1	832.1
27.5°	619.0	647.2	706.4	658.0	631.3
30°	453.6	470.9	512.1	480.3	461.5
32.5°	324.3	336.6	353.9	335.1	325.8
35°	226.8	233.3	241.2	234.0	227.5
37.5°	159.6	161.8	167.6	161.8	158.9
40°	112.0	112.7	117.0	113.4	112.0
42.5°	80.9	80.9	83.1	81.6	80.9
45°	57.8	58.5	60.0	59.2	58.5
47.5°	41.2	42.6	42.6	43.3	40.4
50°	24.6	30.3	31.1	30.3	24.6
52.5°	13.0	18.1	22.4	18.1	13.0
55°	7.9	10.8	15.2	10.8	8.7
57.5°	7.9	7.9	10.1	8.7	7.9
60°	7.9	7.9	7.9	7.9	7.9
62.5°	7.9	7.9	7.9	7.9	7.9
65°	7.2	7.9	7.9	7.9	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	7.2	7.2	6.5	7.2	7.2
72.5°	6.5	6.5	5.8	6.5	6.5
75°	5.1	5.1	5.1	5.1	5.1
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	2.9	3.6	3.6
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)