

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: P283986

Luminaire Tested: **LDA2B158040D010 EU2B15WFL558040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283986  
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: LDA2B158040D010 EU2B15WFL558040 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1258.4 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

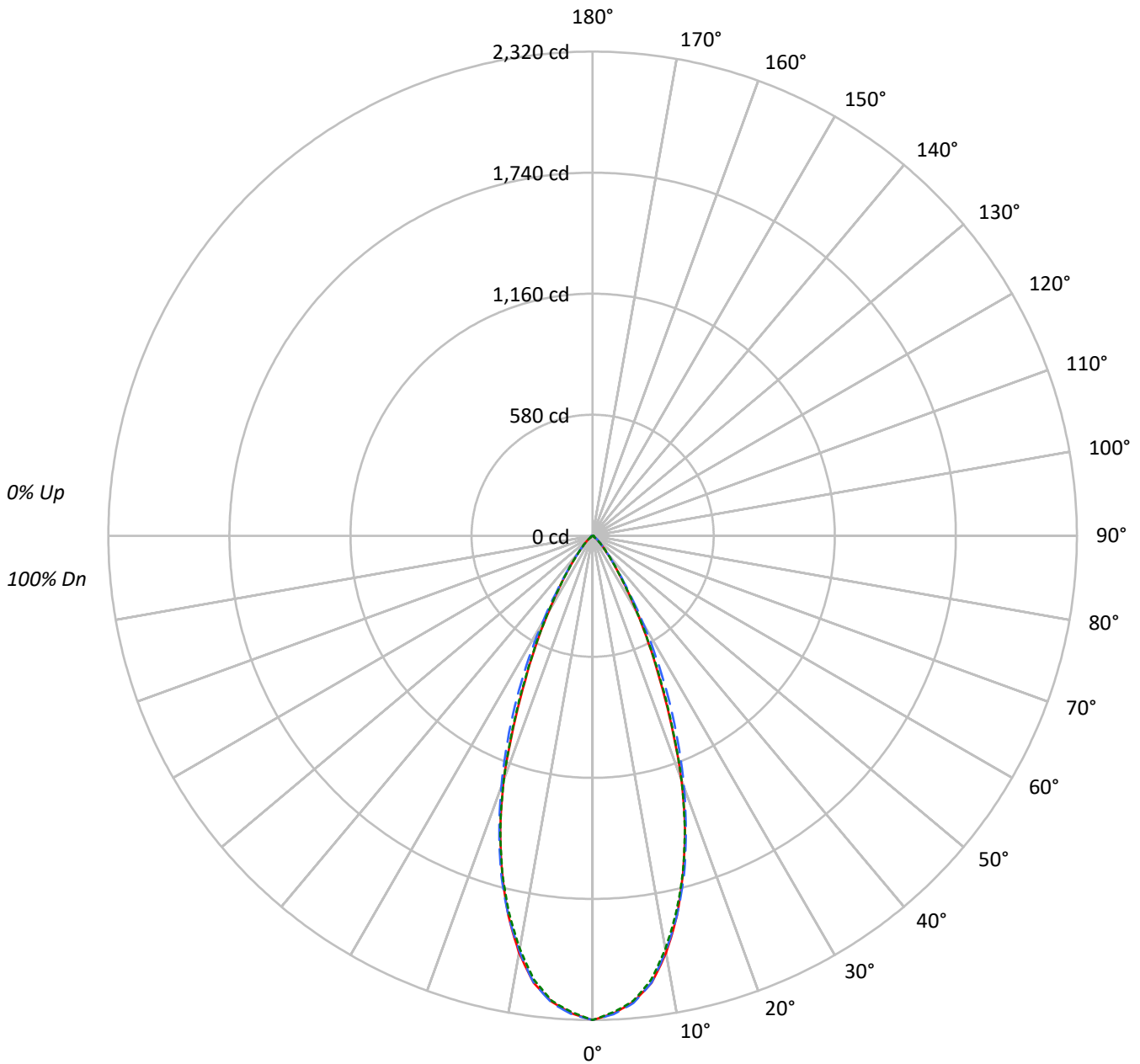
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1144698	1144698	1144698
5°	1110293	1112967	1107965
10°	1016323	1012265	1006154
15°	854869	862785	853489
20°	653708	671087	652658
25°	415132	468045	423243
30°	241433	272594	245648
35°	127624	135755	128045
40°	67366	70393	67366
45°	37677	39072	38165
50°	17577	22259	17577
55°	6365	12214	6967
60°	7302	7302	7302
65°	7822	8639	7822
70°	9665	8799	9665
75°	8959	8959	8959
80°	9660	7671	9660
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.1	16.5
10°-20°	461.1	36.6
20°-30°	372.4	29.6
30°-40°	147.2	11.7
40°-50°	45.2	3.6
50°-60°	11.6	0.9
60°-70°	7.0	0.6
70°-80°	5.1	0.4
80°-90°	1.5	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°	1040.7	82.7
0°-40°	1187.9	94.4
0°-60°	1244.7	98.9
0°-90°	1258.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1258.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2320	2320	2320	2320	2320	
5°	2242	2246	2247	2243	2237	207
15°	1674	1678	1689	1682	1671	460
25°	763	799	860	814	778	355
35°	212	218	225	219	213	142
45°	54	55	56	55	55	44
55°	7	10	14	10	8	9
65°	7	7	7	7	7	7
75°	5	5	5	5	5	5
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°	2320.2	2320.2	2320.2	2320.2	2320.2
2.5°	2291.2	2292.5	2294.6	2291.9	2285.1
5°	2241.9	2246.0	2247.3	2242.6	2237.2
7.5°	2160.9	2156.2	2160.3	2152.2	2145.4
10°	2028.7	2022.6	2020.6	2008.4	2008.4
12.5°	1865.3	1863.3	1864.7	1858.6	1849.2
15°	1673.7	1678.4	1689.2	1682.5	1671.0
17.5°	1470.5	1477.3	1486.7	1484.7	1469.2
20°	1245.1	1264.7	1278.2	1265.4	1243.1
22.5°	988.7	1030.5	1064.9	1038.0	1001.5
25°	762.6	799.0	859.8	813.9	777.5
27.5°	578.4	604.7	660.0	614.8	589.8
30°	423.8	440.0	478.5	448.8	431.2
32.5°	303.0	314.5	330.7	313.1	304.4
35°	211.9	218.0	225.4	218.7	212.6
37.5°	149.1	151.2	156.6	151.2	148.5
40°	104.6	105.3	109.3	106.0	104.6
42.5°	75.6	75.6	77.6	76.3	75.6
45°	54.0	54.7	56.0	55.3	54.7
47.5°	38.5	39.8	39.8	40.5	37.8
50°	22.9	28.3	29.0	28.3	22.9
52.5°	12.1	16.9	20.9	16.9	12.1
55°	7.4	10.1	14.2	10.1	8.1
57.5°	7.4	7.4	9.4	8.1	7.4
60°	7.4	7.4	7.4	7.4	7.4
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.7	7.4	7.4	7.4	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.1	6.7	6.7
72.5°	6.1	6.1	5.4	6.1	6.1
75°	4.7	4.7	4.7	4.7	4.7
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.4	3.4	2.7	3.4	3.4
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
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)