

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: P283968

Luminaire Tested: **LDA2B158027D010 EU2B15WFL558027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283968  
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: LDA2B158027D010 EU2B15WFL558027 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: 1173.1 lumens  
Efficiency: N/A  
Efficacy: 83.2 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

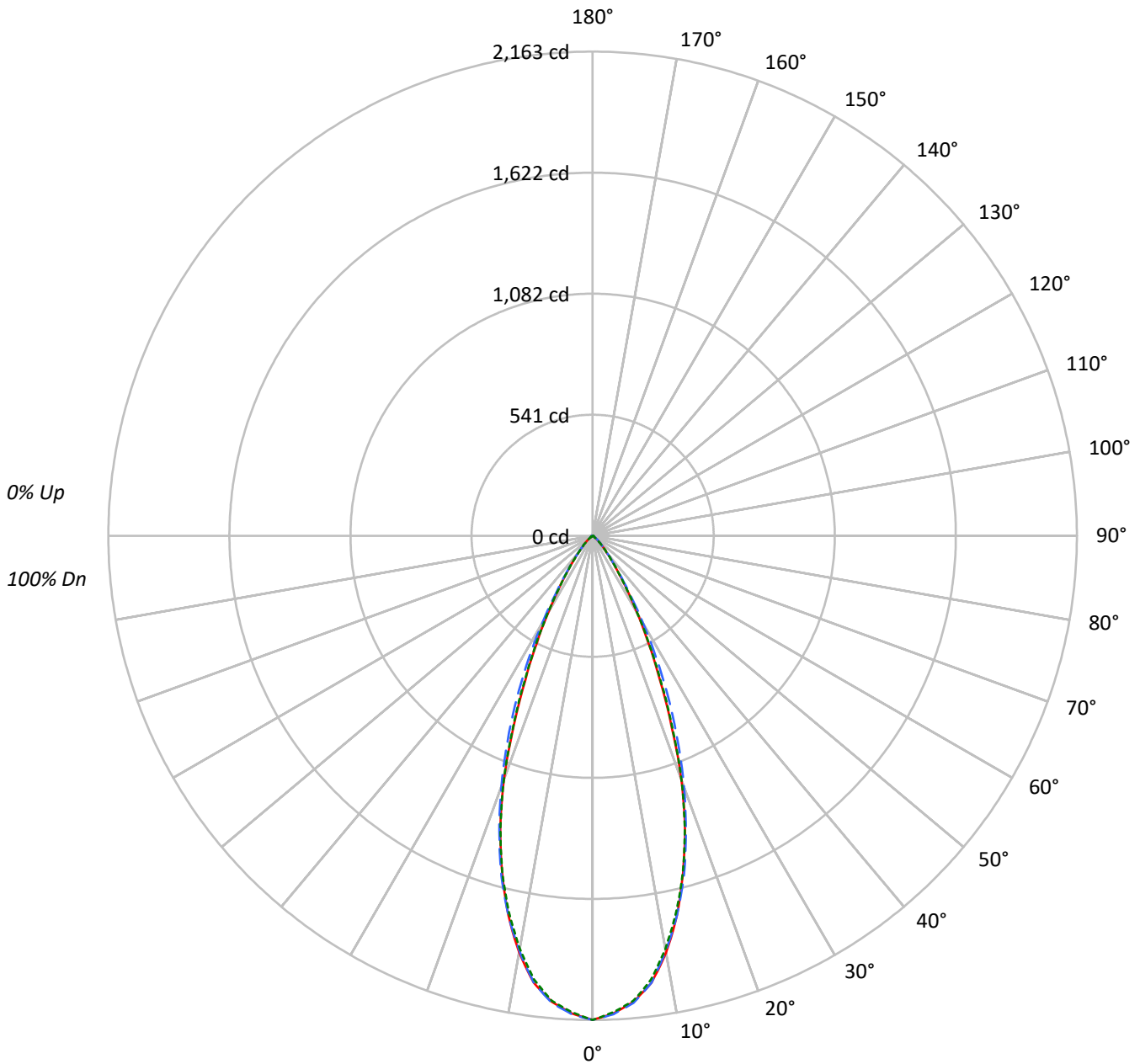
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1067092	1067092	1067092
5°	1035015	1037492	1032836
10°	947389	943632	937921
15°	796897	804303	795620
20°	609396	625567	608399
25°	386989	436308	394501
30°	225083	254080	229013
35°	118951	126540	119373
40°	62794	65627	62794
45°	35095	36421	35584
50°	16425	20800	16425
55°	5935	11354	6451
60°	6808	6808	6808
65°	7355	8055	7355
70°	9088	8222	9088
75°	8387	8387	8387
80°	8808	7103	8808
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.1	16.5
10°-20°	429.9	36.6
20°-30°	347.2	29.6
30°-40°	137.2	11.7
40°-50°	42.1	3.6
50°-60°	10.8	0.9
60°-70°	6.6	0.6
70°-80°	4.8	0.4
80°-90°	1.4	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°	970.1	82.7
0°-40°	1107.3	94.4
0°-60°	1160.3	98.9
0°-90°	1173.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2090	2094	2095	2090	2086	193
15°	1560	1565	1575	1568	1558	429
25°	711	745	802	759	725	331
35°	198	203	210	204	198	132
45°	50	51	52	52	51	41
55°	7	9	13	9	8	9
65°	6	7	7	7	6	6
75°	4	4	4	4	4	5
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°	2162.9	2162.9	2162.9	2162.9	2162.9
2.5°	2135.8	2137.1	2139.0	2136.5	2130.2
5°	2089.9	2093.7	2094.9	2090.5	2085.5
7.5°	2014.4	2010.0	2013.8	2006.2	1999.9
10°	1891.1	1885.4	1883.6	1872.2	1872.2
12.5°	1738.9	1737.0	1738.2	1732.6	1723.8
15°	1560.2	1564.6	1574.7	1568.4	1557.7
17.5°	1370.8	1377.1	1385.9	1384.0	1369.6
20°	1160.7	1179.0	1191.5	1179.6	1158.8
22.5°	921.6	960.7	992.7	967.6	933.6
25°	710.9	744.9	801.5	758.7	724.7
27.5°	539.1	563.7	615.3	573.1	549.8
30°	395.1	410.2	446.0	418.4	402.0
32.5°	282.5	293.2	308.3	291.9	283.7
35°	197.5	203.2	210.1	203.8	198.2
37.5°	139.0	140.9	146.0	140.9	138.4
40°	97.5	98.1	101.9	98.8	97.5
42.5°	70.5	70.5	72.3	71.1	70.5
45°	50.3	51.0	52.2	51.6	51.0
47.5°	35.9	37.1	37.1	37.7	35.2
50°	21.4	26.4	27.1	26.4	21.4
52.5°	11.3	15.7	19.5	15.7	11.3
55°	6.9	9.4	13.2	9.4	7.5
57.5°	6.9	6.9	8.8	7.5	6.9
60°	6.9	6.9	6.9	6.9	6.9
62.5°	6.9	6.9	6.9	6.9	6.9
65°	6.3	6.9	6.9	6.9	6.3
67.5°	6.3	6.3	6.3	6.3	6.3
70°	6.3	6.3	5.7	6.3	6.3
72.5°	5.7	5.7	5.0	5.7	5.7
75°	4.4	4.4	4.4	4.4	4.4
77.5°	3.8	3.8	3.8	3.8	3.8
80°	3.1	3.1	2.5	3.1	3.1
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)