

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: P284021

Luminaire Tested: **LDA2B159040D010 EU2B15WFL559040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284021  
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: LDA2B159040D010 EU2B15WFL559040 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1062.7 lumens  
Efficiency: N/A  
Efficacy: 75.4 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

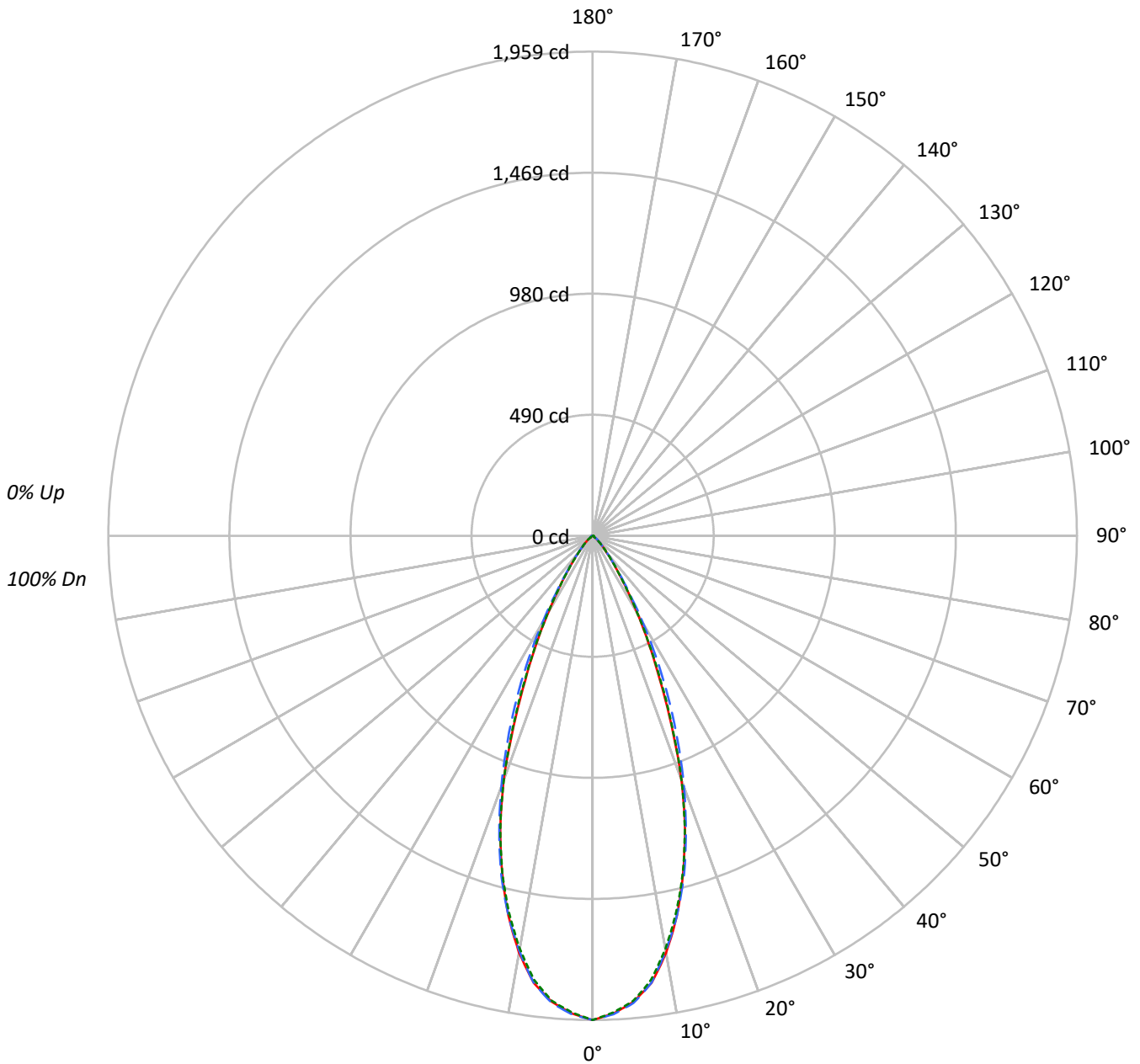
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	966644	966644	966644
5°	937600	939879	935619
10°	858216	854810	849650
15°	721916	728607	720741
20°	552063	566712	551171
25°	350571	395263	357375
30°	203890	230210	207479
35°	107749	114615	108110
40°	56869	59445	56869
45°	31816	33002	32235
50°	14890	18805	14890
55°	5419	10322	5849
60°	6216	6216	6216
65°	6654	7355	6654
70°	8222	7357	8222
75°	7625	7625	7625
80°	7955	6535	7955
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.9	16.5
10°-20°	389.4	36.6
20°-30°	314.5	29.6
30°-40°	124.3	11.7
40°-50°	38.2	3.6
50°-60°	9.8	0.9
60°-70°	6.0	0.6
70°-80°	4.3	0.4
80°-90°	1.3	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°	878.8	82.7
0°-40°	1003.1	94.4
0°-60°	1051.1	98.9
0°-90°	1062.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1959	1959	1959	1959	1959	
5°	1893	1897	1898	1894	1889	175
15°	1413	1417	1426	1421	1411	388
25°	644	675	726	687	656	300
35°	179	184	190	185	180	120
45°	46	46	47	47	46	37
55°	6	8	12	8	7	8
65°	6	6	6	6	6	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°	1959.3	1959.3	1959.3	1959.3	1959.3
2.5°	1934.8	1936.0	1937.7	1935.4	1929.7
5°	1893.2	1896.6	1897.8	1893.8	1889.2
7.5°	1824.8	1820.8	1824.3	1817.4	1811.7
10°	1713.1	1708.0	1706.3	1696.0	1696.0
12.5°	1575.2	1573.5	1574.6	1569.5	1561.5
15°	1413.4	1417.3	1426.5	1420.8	1411.1
17.5°	1241.8	1247.5	1255.5	1253.8	1240.7
20°	1051.5	1068.0	1079.4	1068.6	1049.8
22.5°	834.9	870.2	899.3	876.5	845.7
25°	644.0	674.8	726.1	687.3	656.5
27.5°	488.4	510.6	557.4	519.2	498.1
30°	357.9	371.6	404.1	379.0	364.2
32.5°	255.9	265.6	279.3	264.4	257.0
35°	178.9	184.1	190.3	184.6	179.5
37.5°	125.9	127.7	132.2	127.7	125.4
40°	88.3	88.9	92.3	89.5	88.3
42.5°	63.8	63.8	65.5	64.4	63.8
45°	45.6	46.2	47.3	46.7	46.2
47.5°	32.5	33.6	33.6	34.2	31.9
50°	19.4	23.9	24.5	23.9	19.4
52.5°	10.3	14.2	17.7	14.2	10.3
55°	6.3	8.5	12.0	8.5	6.8
57.5°	6.3	6.3	8.0	6.8	6.3
60°	6.3	6.3	6.3	6.3	6.3
62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.7	6.3	6.3	6.3	5.7
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.1	5.7	5.7
72.5°	5.1	5.1	4.6	5.1	5.1
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.8	2.8	2.3	2.8	2.8
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.1	1.1	1.1	1.1	1.1
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)