

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: P284004

Luminaire Tested: **LDA2B159027D010 EU2B15WFL559027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284004  
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 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: 924.6 lumens  
Efficiency: N/A  
Efficacy: 65.6 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

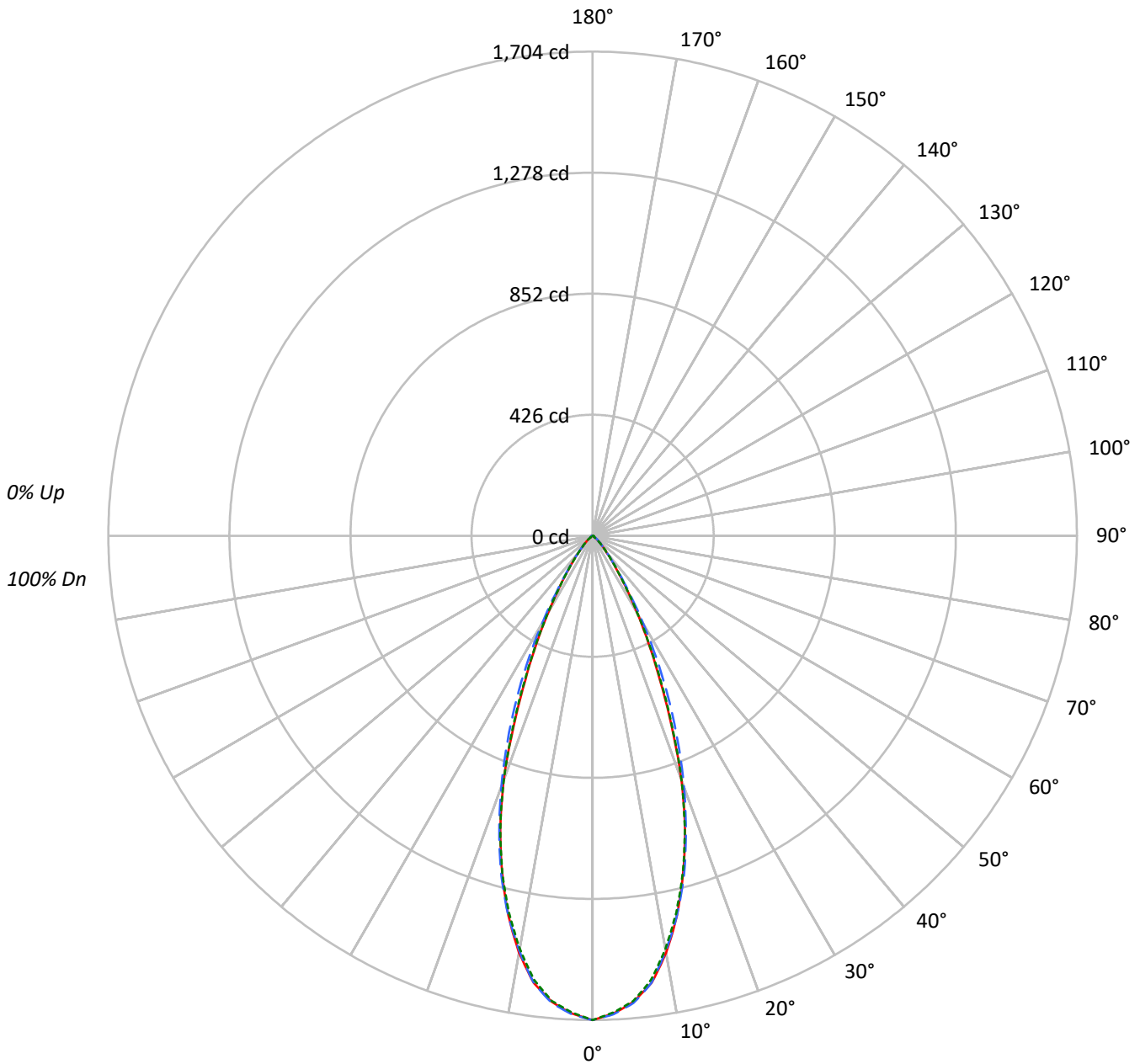
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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°	840886	840886	840886
5°	815621	817602	813937
10°	746600	743594	739135
15°	627986	633809	626965
20°	480240	492998	479453
25°	304953	343821	310887
30°	177343	200244	180476
35°	93776	99738	94077
40°	49462	51716	49462
45°	27699	28676	28048
50°	12971	16348	12971
55°	4731	8946	5075
60°	5427	5427	5427
65°	5837	6421	5837
70°	7212	6491	7212
75°	6672	6672	6672
80°	7103	5682	7103
85°	5661	5661	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	16.5
10°-20°	338.8	36.6
20°-30°	273.6	29.6
30°-40°	108.1	11.7
40°-50°	33.2	3.6
50°-60°	8.6	0.9
60°-70°	5.2	0.6
70°-80°	3.8	0.4
80°-90°	1.1	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°	764.5	82.7
0°-40°	872.6	94.4
0°-60°	914.4	98.9
0°-90°	924.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1647	1650	1651	1647	1644	152
15°	1230	1233	1241	1236	1228	338
25°	560	587	632	598	571	261
35°	156	160	166	161	156	104
45°	40	40	41	41	40	32
55°	6	7	10	7	6	7
65°	5	6	6	6	5	5
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°	1704.4	1704.4	1704.4	1704.4	1704.4
2.5°	1683.1	1684.1	1685.6	1683.6	1678.7
5°	1646.9	1649.9	1650.9	1647.4	1643.5
7.5°	1587.4	1584.0	1586.9	1581.0	1576.0
10°	1490.3	1485.8	1484.3	1475.4	1475.4
12.5°	1370.3	1368.8	1369.8	1365.3	1358.4
15°	1229.5	1233.0	1240.9	1235.9	1227.5
17.5°	1080.3	1085.2	1092.2	1090.7	1079.3
20°	914.7	929.1	939.0	929.6	913.2
22.5°	726.3	757.0	782.3	762.5	735.7
25°	560.2	587.0	631.6	597.9	571.1
27.5°	424.9	444.2	484.9	451.6	433.3
30°	311.3	323.2	351.5	329.7	316.8
32.5°	222.6	231.0	242.9	230.0	223.6
35°	155.7	160.1	165.6	160.6	156.2
37.5°	109.6	111.1	115.0	111.1	109.1
40°	76.8	77.3	80.3	77.8	76.8
42.5°	55.5	55.5	57.0	56.0	55.5
45°	39.7	40.2	41.1	40.7	40.2
47.5°	28.3	29.3	29.3	29.7	27.8
50°	16.9	20.8	21.3	20.8	16.9
52.5°	8.9	12.4	15.4	12.4	8.9
55°	5.5	7.4	10.4	7.4	5.9
57.5°	5.5	5.5	6.9	5.9	5.5
60°	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5
65°	5.0	5.5	5.5	5.5	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	4.5	5.0	5.0
72.5°	4.5	4.5	4.0	4.5	4.5
75°	3.5	3.5	3.5	3.5	3.5
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.0	2.5	2.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.0	1.0	1.0	1.0	1.0
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)