

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: P283973

Luminaire Tested: **LDA2B158030D010 EU2B15WFL558030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283973  
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: LDA2B158030D010 EU2B15WFL558030 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: 1242.7 lumens  
Efficiency: N/A  
Efficacy: 88.1 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

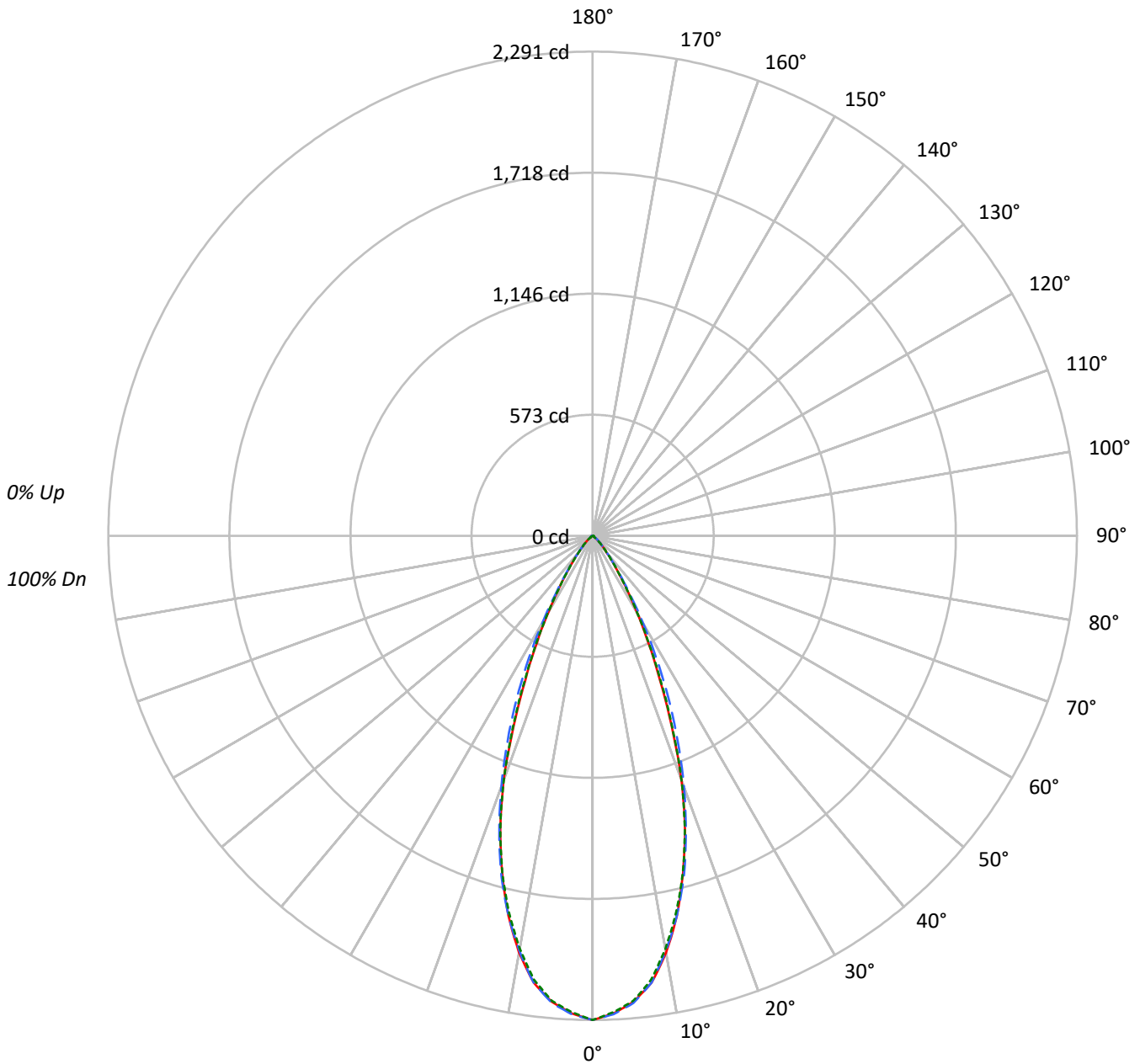
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1130341	1130341	1130341
5°	1096376	1099001	1094049
10°	1003548	999541	993529
15°	844142	851957	842763
20°	645518	662686	644468
25°	409906	462165	417909
30°	238413	269176	242572
35°	125998	134068	126419
40°	66529	69556	66529
45°	37188	38584	37677
50°	17423	22028	17423
55°	6279	12042	6881
60°	7203	7203	7203
65°	7822	8522	7822
70°	9665	8655	9665
75°	8959	8959	8959
80°	9376	7671	9376
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.5	16.5
10°-20°	455.4	36.6
20°-30°	367.7	29.6
30°-40°	145.3	11.7
40°-50°	44.6	3.6
50°-60°	11.5	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°	1027.6	82.7
0°-40°	1173.0	94.4
0°-60°	1229.1	98.9
0°-90°	1242.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2214	2218	2219	2214	2209	205
15°	1653	1657	1668	1661	1650	454
25°	753	789	849	804	768	351
35°	209	215	223	216	210	140
45°	53	54	55	55	54	43
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°	2291.1	2291.1	2291.1	2291.1	2291.1
2.5°	2262.4	2263.8	2265.8	2263.1	2256.4
5°	2213.8	2217.8	2219.1	2214.4	2209.1
7.5°	2133.8	2129.1	2133.1	2125.2	2118.5
10°	2003.2	1997.2	1995.2	1983.2	1983.2
12.5°	1841.9	1839.9	1841.3	1835.3	1825.9
15°	1652.7	1657.3	1668.0	1661.3	1650.0
17.5°	1452.1	1458.8	1468.1	1466.1	1450.8
20°	1229.5	1248.8	1262.2	1249.5	1227.5
22.5°	976.3	1017.6	1051.6	1024.9	988.9
25°	753.0	789.0	849.0	803.7	767.7
27.5°	571.1	597.1	651.7	607.1	582.4
30°	418.5	434.5	472.5	443.2	425.8
32.5°	299.2	310.5	326.5	309.2	300.5
35°	209.2	215.2	222.6	215.9	209.9
37.5°	147.3	149.3	154.6	149.3	146.6
40°	103.3	104.0	108.0	104.6	103.3
42.5°	74.6	74.6	76.6	75.3	74.6
45°	53.3	54.0	55.3	54.6	54.0
47.5°	38.0	39.3	39.3	40.0	37.3
50°	22.7	28.0	28.7	28.0	22.7
52.5°	12.0	16.7	20.7	16.7	12.0
55°	7.3	10.0	14.0	10.0	8.0
57.5°	7.3	7.3	9.3	8.0	7.3
60°	7.3	7.3	7.3	7.3	7.3
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.7	7.3	7.3	7.3	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.0	6.7	6.7
72.5°	6.0	6.0	5.3	6.0	6.0
75°	4.7	4.7	4.7	4.7	4.7
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.3	3.3	2.7	3.3	3.3
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)