

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: P283670

Luminaire Tested: **LDA2B159030D010 EU2B15FL409030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B159030D010 EU2B15FL409030 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1021.8 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

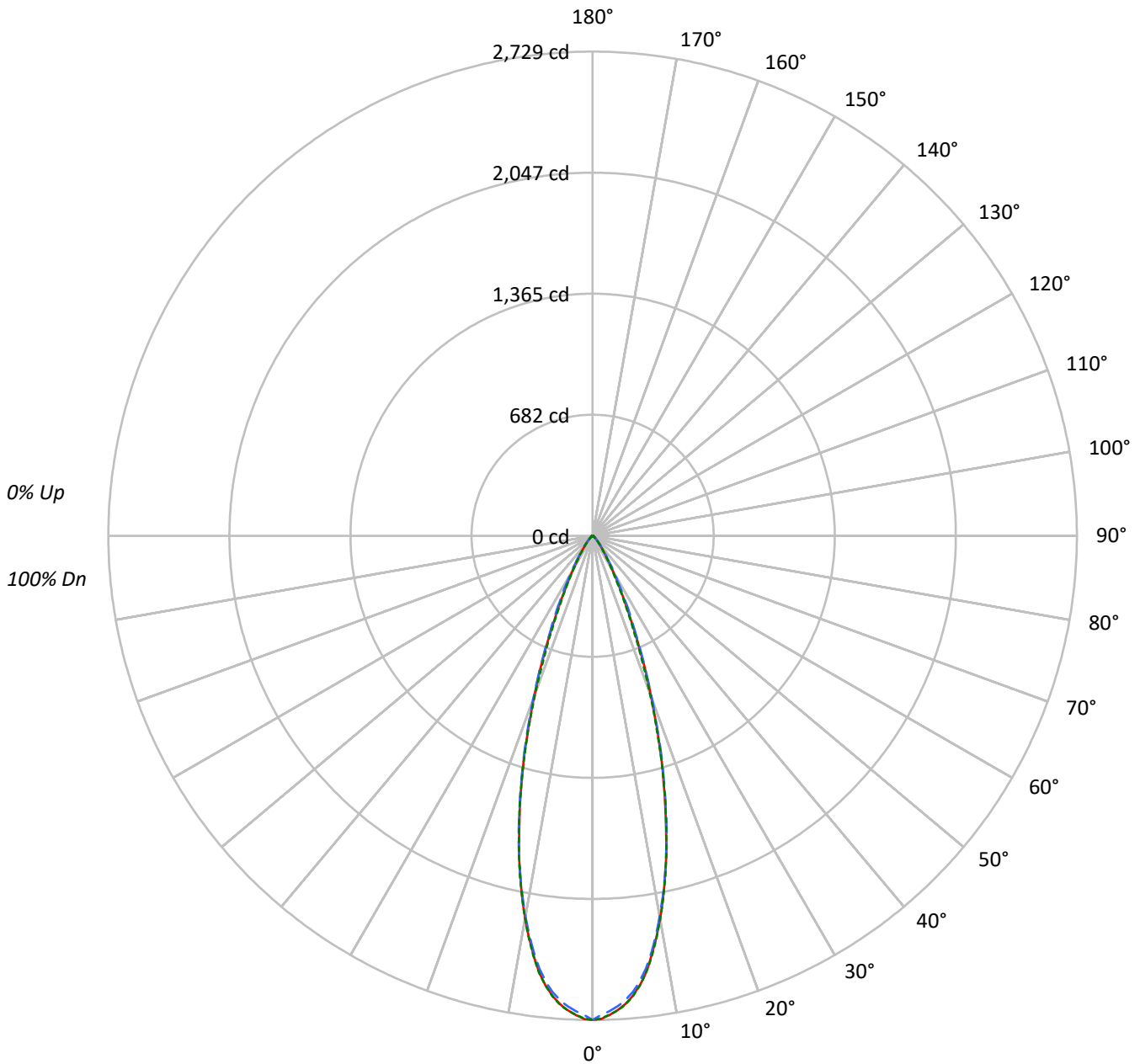
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	1346335	1346335	1346335
5°	1288433	1278776	1290414
10°	1097681	1090818	1098833
15°	809053	814314	811709
20°	505074	514419	493943
25°	260914	279912	247795
30°	125103	143390	119235
35°	64565	71491	60409
40°	36195	37998	34327
45°	21978	21978	21211
50°	11436	14046	11436
55°	5935	9376	6451
60°	6808	6808	6808
65°	7355	7355	7355
70°	9088	8222	9088
75°	8769	8769	8769
80°	8239	8239	8239
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.7	23.0
10°-20°	431.1	42.2
20°-30°	233.8	22.9
30°-40°	75.0	7.3
40°-50°	25.6	2.5
50°-60°	9.0	0.9
60°-70°	6.5	0.6
70°-80°	4.8	0.5
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°	899.6	88.0
0°-40°	974.7	95.4
0°-60°	1009.2	98.8
0°-90°	1021.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2729	2729	2729	2729	2729	
5°	2602	2586	2582	2608	2606	235
15°	1584	1597	1594	1602	1589	429
25°	479	501	514	479	455	230
35°	107	112	119	108	100	72
45°	32	32	32	32	30	25
55°	7	9	11	9	8	8
65°	6	7	6	7	6	6
75°	5	5	5	5	5	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°	2728.9	2728.9	2728.9	2728.9	2728.9
1°	2724.3	2704.8	2701.9	2727.2	2721.4
2°	2702.5	2684.2	2681.3	2706.5	2701.4
3°	2678.4	2661.8	2656.1	2682.4	2679.0
4°	2646.3	2630.9	2625.7	2652.1	2649.2
5°	2601.6	2585.6	2582.1	2607.9	2605.6
6°	2546.6	2533.4	2527.1	2552.9	2548.3
7°	2477.8	2465.7	2458.9	2477.8	2480.1
8°	2388.3	2382.6	2374.6	2393.5	2393.5
9°	2293.2	2288.0	2279.4	2296.6	2296.6
10°	2191.1	2187.7	2177.4	2193.4	2193.4
11°	2079.3	2077.6	2070.2	2083.4	2083.4
12°	1961.8	1965.8	1958.9	1970.4	1966.4
13°	1844.3	1842.6	1843.1	1851.7	1845.4
14°	1711.3	1721.6	1723.3	1728.5	1718.7
15°	1584.0	1597.2	1594.3	1601.8	1589.2
16°	1453.9	1468.8	1468.2	1469.9	1457.9
17°	1332.3	1340.9	1341.5	1339.8	1324.9
18°	1202.8	1214.8	1214.8	1211.9	1194.2
19°	1076.1	1085.2	1091.6	1085.2	1064.6
20°	962.0	968.3	979.8	963.7	940.8
21°	852.5	858.2	868.0	849.1	823.8
22°	747.6	755.0	764.2	742.4	716.0
23°	649.5	666.7	670.2	640.4	618.0
24°	559.5	579.0	584.8	554.4	530.9
25°	479.3	501.1	514.2	478.7	455.2
26°	409.9	431.1	447.2	411.6	389.3
27°	349.1	371.5	388.1	354.9	333.7
28°	297.0	318.8	336.0	305.0	284.9
29°	258.0	270.6	287.8	262.0	243.7
30°	219.6	233.3	251.7	225.3	209.3
32.5°	150.8	158.2	172.6	156.5	143.9
35°	107.2	111.8	118.7	107.8	100.3
37.5°	76.2	78.5	82.6	76.2	72.2
40°	56.2	57.3	59.0	55.6	53.3
42.5°	41.9	42.4	42.4	41.3	40.1
45°	31.5	32.1	31.5	31.5	30.4
47.5°	22.9	24.7	24.1	24.1	22.4
50°	14.9	18.3	18.3	17.8	14.9
52.5°	9.2	12.6	14.3	12.6	9.7
55°	6.9	8.6	10.9	8.6	7.5
57.5°	6.9	6.9	8.0	6.9	6.9
60°	6.9	6.9	6.9	6.9	6.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
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	5.2	5.7	5.2
75°	4.6	4.6	4.6	4.6	4.6
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.9	2.9	2.9	2.9	2.9
82.5°	1.7	1.7	1.7	2.3	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°







62.5°	6.9	6.9	6.9	6.9	6.9
65°	6.3	6.9	6.3	6.9	6.3



(END OF REPORT)