

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: P283683

Luminaire Tested: **LDA2B159040D010 EU2B15FL409040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283683  
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: LDA2B159040D010 EU2B15FL409040 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1048.8 lumens  
Efficiency: N/A  
Efficacy: 74.4 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

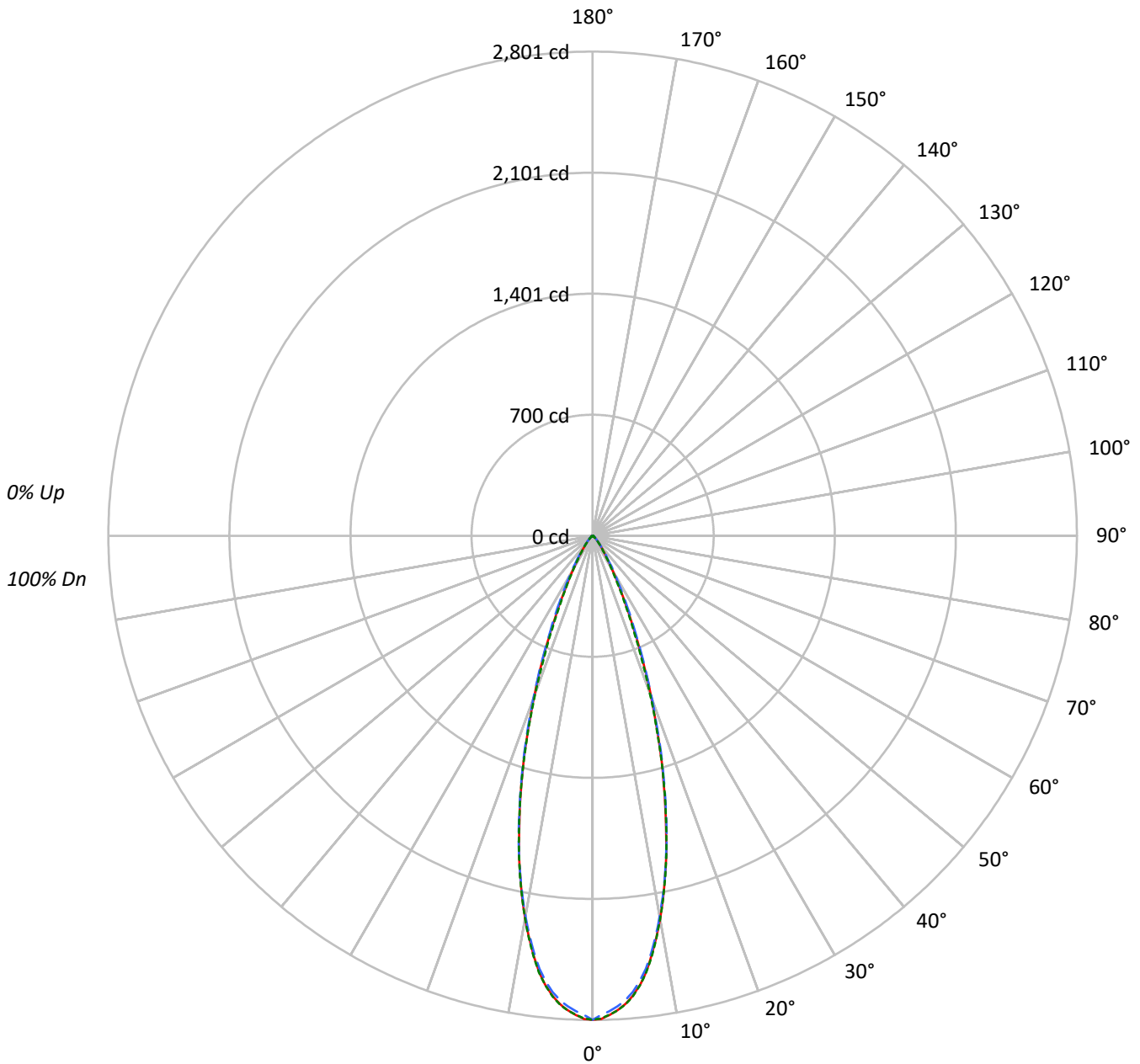
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	1381758	1381758	1381758
5°	1322357	1312452	1324388
10°	1126587	1119524	1127790
15°	830352	835766	833059
20°	518357	527965	506911
25°	267773	287316	254327
30°	128407	147150	122368
35°	66251	73358	62035
40°	37161	39029	35229
45°	22606	22606	21769
50°	11743	14430	11743
55°	6107	9634	6537
60°	7006	7006	7006
65°	7588	7588	7588
70°	9376	8511	9376
75°	8959	8959	8959
80°	8239	8239	8239
85°	6793	6793	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.9	23.0
10°-20°	442.5	42.2
20°-30°	239.9	22.9
30°-40°	77.0	7.3
40°-50°	26.2	2.5
50°-60°	9.2	0.9
60°-70°	6.7	0.6
70°-80°	4.9	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°	923.3	88.0
0°-40°	1000.3	95.4
0°-60°	1035.8	98.8
0°-90°	1048.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2801	2801	2801	2801	2801	
5°	2670	2654	2650	2677	2674	241
15°	1626	1639	1636	1644	1631	441
25°	492	514	528	491	467	236
35°	110	115	122	111	103	74
45°	32	33	32	32	31	26
55°	7	9	11	9	8	8
65°	6	7	6	7	6	7
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°	2800.7	2800.7	2800.7	2800.7	2800.7
1°	2796.0	2776.0	2773.1	2799.0	2793.1
2°	2773.7	2754.8	2751.9	2777.8	2772.5
3°	2748.9	2731.9	2726.0	2753.1	2749.5
4°	2716.0	2700.1	2694.8	2721.9	2718.9
5°	2670.1	2653.6	2650.1	2676.6	2674.2
6°	2613.6	2600.1	2593.6	2620.1	2615.4
7°	2543.0	2530.6	2523.6	2543.0	2545.4
8°	2451.2	2445.3	2437.1	2456.5	2456.5
9°	2353.5	2348.2	2339.4	2357.1	2357.1
10°	2248.8	2245.3	2234.7	2251.2	2251.2
11°	2134.1	2132.3	2124.7	2138.2	2138.2
12°	2013.5	2017.6	2010.5	2022.3	2018.2
13°	1892.8	1891.1	1891.7	1900.5	1894.0
14°	1756.3	1766.9	1768.7	1774.0	1764.0
15°	1625.7	1639.2	1636.3	1644.0	1631.0
16°	1492.1	1507.4	1506.9	1508.6	1496.3
17°	1367.4	1376.2	1376.8	1375.1	1359.8
18°	1234.4	1246.8	1246.8	1243.8	1225.6
19°	1104.4	1113.8	1120.3	1113.8	1092.6
20°	987.3	993.8	1005.6	989.1	965.5
21°	874.9	880.8	890.8	871.4	845.5
22°	767.3	774.9	784.3	762.0	734.9
23°	666.6	684.3	687.8	657.2	634.3
24°	574.3	594.3	600.2	569.0	544.8
25°	491.9	514.2	527.8	491.3	467.2
26°	420.7	442.5	458.9	422.5	399.5
27°	358.3	381.3	398.3	364.2	342.4
28°	304.8	327.1	344.8	313.0	292.4
29°	264.8	277.7	295.4	268.9	250.1
30°	225.4	239.5	258.3	231.2	214.8
32.5°	154.7	162.4	177.1	160.6	147.7
35°	110.0	114.7	121.8	110.6	103.0
37.5°	78.3	80.6	84.7	78.3	74.1
40°	57.7	58.8	60.6	57.1	54.7
42.5°	43.0	43.5	43.5	42.4	41.2
45°	32.4	32.9	32.4	32.4	31.2
47.5°	23.5	25.3	24.7	24.7	22.9
50°	15.3	18.8	18.8	18.2	15.3
52.5°	9.4	12.9	14.7	12.9	10.0
55°	7.1	8.8	11.2	8.8	7.6
57.5°	7.1	7.1	8.2	7.1	7.1
60°	7.1	7.1	7.1	7.1	7.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	6.5	6.5	6.5	6.5	6.5
70°	6.5	6.5	5.9	6.5	6.5
72.5°	5.9	5.9	5.3	5.9	5.3
75°	4.7	4.7	4.7	4.7	4.7
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.9	2.9	2.9	2.9	2.9
82.5°	1.8	1.8	1.8	2.4	1.8
85°	1.2	1.2	1.2	1.2	1.2
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°	7.1	7.1	7.1	7.1	7.1
65°	6.5	7.1	6.5	7.1	6.5



(END OF REPORT)