

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: P283678

Luminaire Tested: **LDA2B159035D010 EU2B15FL409035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283678  
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: LDA2B159035D010 EU2B15FL409035 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1049.0 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

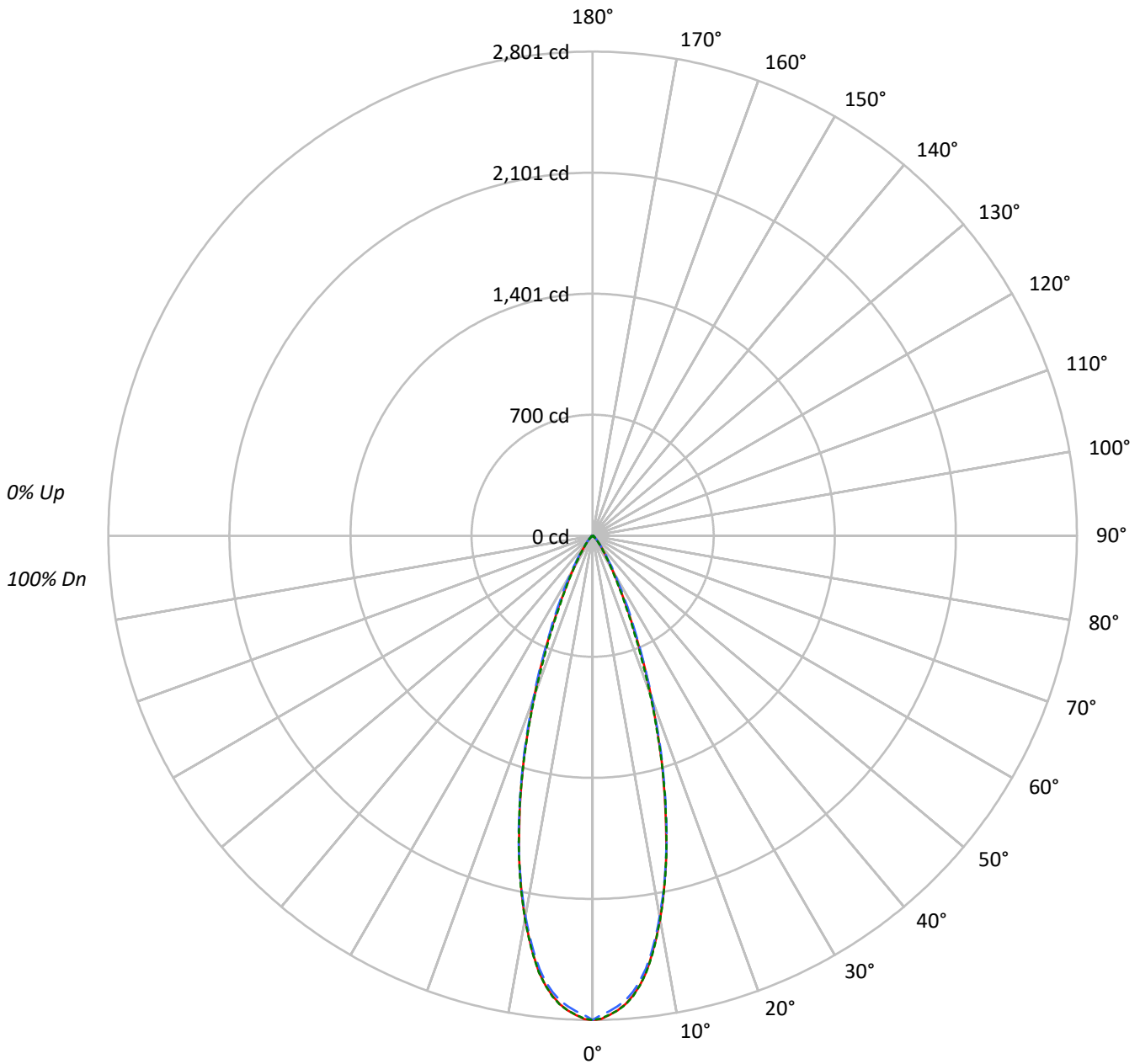
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	1382005	1382005	1382005
5°	1322605	1312700	1324635
10°	1126788	1119724	1127990
15°	830505	835919	833212
20°	518462	528017	507016
25°	267827	287370	254382
30°	128407	147150	122368
35°	66251	73358	62035
40°	37161	39029	35229
45°	22606	22606	21769
50°	11743	14430	11743
55°	6107	9634	6623
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°	241.0	23.0
10°-20°	442.6	42.2
20°-30°	239.9	22.9
30°-40°	77.0	7.3
40°-50°	26.3	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°	923.5	88.0
0°-40°	1000.5	95.4
0°-60°	1035.9	98.8
0°-90°	1049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1049.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2801	2801	2801	2801	2801	
5°	2671	2654	2651	2677	2675	241
15°	1626	1640	1637	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°	2801.2	2801.2	2801.2	2801.2	2801.2
1°	2796.5	2776.5	2773.6	2799.5	2793.6
2°	2774.2	2755.3	2752.4	2778.3	2773.0
3°	2749.5	2732.4	2726.5	2753.6	2750.0
4°	2716.5	2700.6	2695.3	2722.4	2719.4
5°	2670.6	2654.1	2650.6	2677.1	2674.7
6°	2614.1	2600.6	2594.1	2620.6	2615.9
7°	2543.5	2531.1	2524.1	2543.5	2545.8
8°	2451.7	2445.8	2437.5	2457.0	2457.0
9°	2354.0	2348.7	2339.9	2357.5	2357.5
10°	2249.2	2245.7	2235.1	2251.6	2251.6
11°	2134.5	2132.7	2125.1	2138.6	2138.6
12°	2013.8	2018.0	2010.9	2022.7	2018.5
13°	1893.2	1891.4	1892.0	1900.8	1894.4
14°	1756.7	1767.3	1769.0	1774.3	1764.3
15°	1626.0	1639.5	1636.6	1644.3	1631.3
16°	1492.4	1507.7	1507.1	1508.9	1496.5
17°	1367.7	1376.5	1377.1	1375.3	1360.0
18°	1234.7	1247.0	1247.0	1244.1	1225.8
19°	1104.6	1114.0	1120.5	1114.0	1092.8
20°	987.5	994.0	1005.7	989.3	965.7
21°	875.1	881.0	891.0	871.6	845.7
22°	767.4	775.0	784.5	762.1	735.0
23°	666.8	684.4	688.0	657.3	634.4
24°	574.4	594.4	600.3	569.1	544.9
25°	492.0	514.3	527.9	491.4	467.3
26°	420.8	442.5	459.0	422.5	399.6
27°	358.4	381.3	398.4	364.3	342.5
28°	304.8	327.2	344.9	313.1	292.5
29°	264.8	277.8	295.4	268.9	250.1
30°	225.4	239.5	258.3	231.3	214.8
32.5°	154.8	162.4	177.1	160.7	147.7
35°	110.0	114.8	121.8	110.6	103.0
37.5°	78.3	80.6	84.7	78.3	74.2
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	33.0	32.4	32.4	31.2
47.5°	23.5	25.3	24.7	24.7	23.0
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	7.7
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)