

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: P283700

Luminaire Tested: **LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283700  
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: LDA2B159730D010 EU2B15FL409730 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: 937.9 lumens  
Efficiency: N/A  
Efficacy: 66.5 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

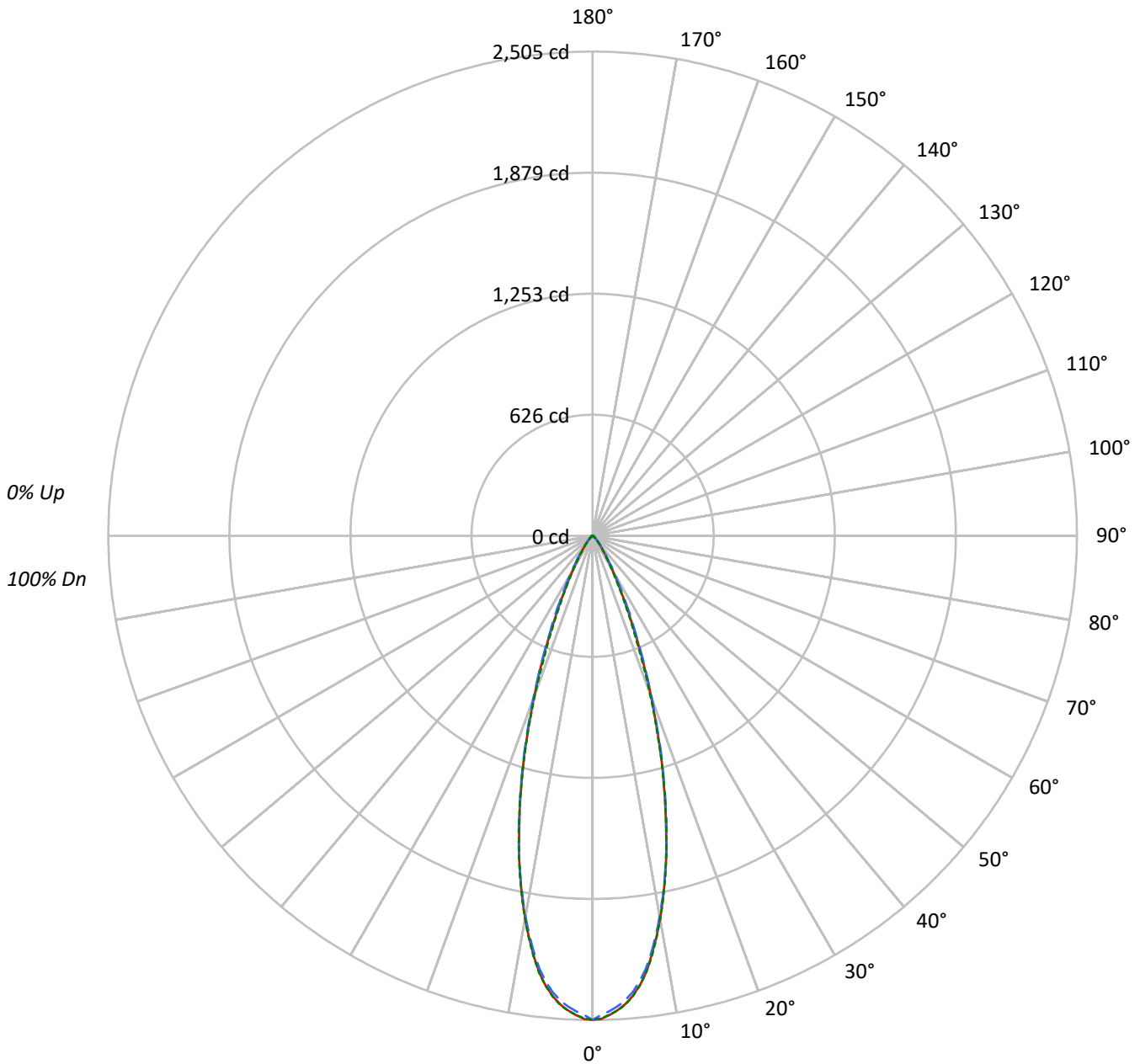
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1235773	1235773	1235773
5°	1182648	1173783	1184481
10°	1007556	1001244	1008608
15°	742602	747455	745054
20°	463597	472155	453359
25°	239466	256940	227435
30°	114792	131597	109437
35°	59265	65589	55470
40°	33232	34907	31493
45°	20164	20164	19466
50°	10515	12895	10515
55°	5419	8602	5849
60°	6216	6216	6216
65°	6771	6771	6771
70°	8366	7645	8366
75°	8006	8006	8006
80°	7387	7387	7387
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.5	23.0
10°-20°	395.7	42.2
20°-30°	214.6	22.9
30°-40°	68.9	7.3
40°-50°	23.5	2.5
50°-60°	8.2	0.9
60°-70°	6.0	0.6
70°-80°	4.4	0.5
80°-90°	1.3	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°	825.7	88.0
0°-40°	894.6	95.4
0°-60°	926.3	98.8
0°-90°	937.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	937.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2505	2505	2505	2505	2505	
5°	2388	2373	2370	2394	2392	216
15°	1454	1466	1463	1470	1459	394
25°	440	460	472	439	418	211
35°	98	103	109	99	92	66
45°	29	30	29	29	28	23
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
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°	2504.8	2504.8	2504.8	2504.8	2504.8
1°	2500.6	2482.7	2480.1	2503.2	2498.0
2°	2480.6	2463.8	2461.1	2484.3	2479.5
3°	2458.5	2443.2	2438.0	2462.2	2459.0
4°	2429.0	2414.8	2410.1	2434.3	2431.7
5°	2388.0	2373.2	2370.1	2393.8	2391.7
6°	2337.5	2325.4	2319.6	2343.2	2339.0
7°	2274.3	2263.3	2256.9	2274.3	2276.4
8°	2192.2	2187.0	2179.6	2197.0	2197.0
9°	2104.9	2100.1	2092.2	2108.0	2108.0
10°	2011.2	2008.0	1998.6	2013.3	2013.3
11°	1908.6	1907.0	1900.2	1912.3	1912.3
12°	1800.7	1804.4	1798.1	1808.6	1804.9
13°	1692.8	1691.3	1691.8	1699.7	1693.9
14°	1570.8	1580.2	1581.8	1586.5	1577.6
15°	1453.9	1466.0	1463.4	1470.3	1458.7
16°	1334.5	1348.2	1347.6	1349.2	1338.2
17°	1222.9	1230.8	1231.3	1229.8	1216.1
18°	1104.0	1115.1	1115.1	1112.4	1096.1
19°	987.7	996.1	1001.9	996.1	977.2
20°	883.0	888.8	899.3	884.6	863.5
21°	782.5	787.7	796.7	779.3	756.2
22°	686.2	693.0	701.4	681.5	657.2
23°	596.2	612.0	615.1	587.8	567.3
24°	513.6	531.5	536.7	508.9	487.3
25°	439.9	459.9	472.0	439.4	417.8
26°	376.2	395.7	410.4	377.8	357.3
27°	320.5	341.0	356.2	325.7	306.3
28°	272.6	292.6	308.4	279.9	261.5
29°	236.8	248.4	264.2	240.5	223.6
30°	201.5	214.2	231.0	206.8	192.1
32.5°	138.4	145.2	158.4	143.7	132.1
35°	98.4	102.6	108.9	98.9	92.1
37.5°	70.0	72.1	75.8	70.0	66.3
40°	51.6	52.6	54.2	51.0	48.9
42.5°	38.4	38.9	38.9	37.9	36.8
45°	28.9	29.5	28.9	28.9	27.9
47.5°	21.0	22.6	22.1	22.1	20.5
50°	13.7	16.8	16.8	16.3	13.7
52.5°	8.4	11.6	13.2	11.6	8.9
55°	6.3	7.9	10.0	7.9	6.8
57.5°	6.3	6.3	7.4	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.3	5.8	5.8
72.5°	5.3	5.3	4.7	5.3	4.7
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.1	1.1	1.1	1.1	1.1
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°







62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.8	6.3	5.8	6.3	5.8



(END OF REPORT)