

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: P283639

Luminaire Tested: **LDA2B158030D010 EU2B15FL408030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283639  
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: LDA2B158030D010 EU2B15FL408030 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1169.5 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

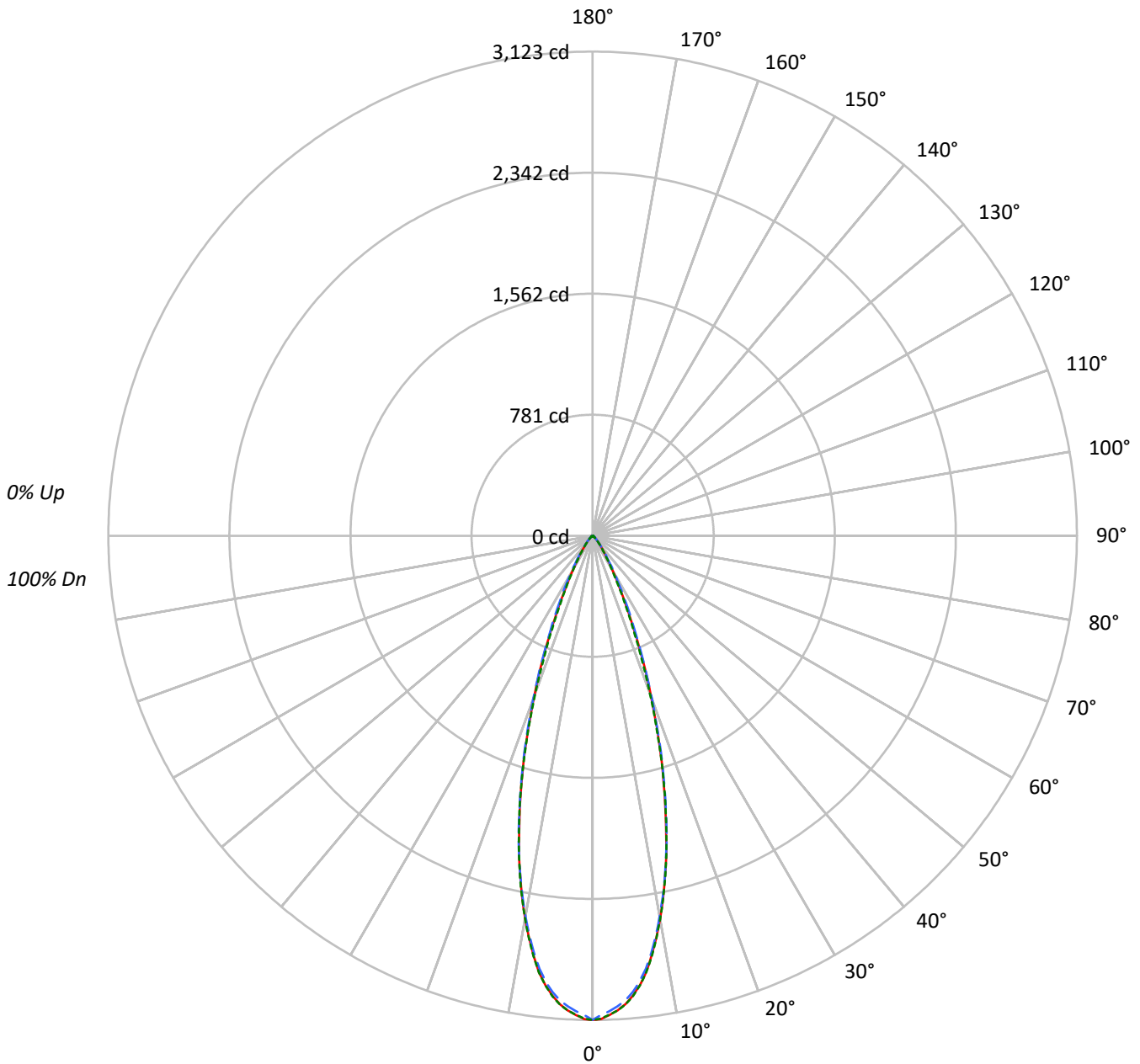
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1540818	1540818	1540818
5°	1474546	1463502	1476825
10°	1256239	1248374	1257592
15°	925916	931943	928930
20°	578000	588710	565294
25°	298584	320359	283559
30°	143162	164069	136440
35°	73900	81790	69142
40°	41412	43537	39286
45°	25188	25188	24281
50°	13125	16118	13125
55°	6795	10752	7311
60°	7795	7795	7795
65°	8405	8405	8405
70°	10386	9520	10386
75°	9912	9912	9912
80°	9376	9376	9376
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.6	23.0
10°-20°	493.4	42.2
20°-30°	267.5	22.9
30°-40°	85.9	7.3
40°-50°	29.3	2.5
50°-60°	10.3	0.9
60°-70°	7.5	0.6
70°-80°	5.4	0.5
80°-90°	1.6	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°	1029.6	88.0
0°-40°	1115.4	95.4
0°-60°	1155.0	98.8
0°-90°	1169.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3123	3123	3123	3123	3123	
5°	2977	2959	2955	2985	2982	269
15°	1813	1828	1825	1833	1819	491
25°	548	573	588	548	521	263
35°	123	128	136	123	115	83
45°	36	37	36	36	35	29
55°	8	10	12	10	8	9
65°	7	8	7	8	7	7
75°	5	5	5	5	5	6
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°	3123.1	3123.1	3123.1	3123.1	3123.1
1°	3117.8	3095.5	3092.2	3121.1	3114.5
2°	3092.9	3071.9	3068.6	3097.5	3091.6
3°	3065.3	3046.3	3039.7	3069.9	3066.0
4°	3028.6	3010.9	3005.0	3035.1	3031.9
5°	2977.4	2959.0	2955.1	2984.6	2982.0
6°	2914.4	2899.3	2892.1	2921.6	2916.4
7°	2835.7	2821.9	2814.0	2835.7	2838.3
8°	2733.3	2726.8	2717.6	2739.2	2739.2
9°	2624.4	2618.5	2608.7	2628.4	2628.4
10°	2507.6	2503.7	2491.9	2510.3	2510.3
11°	2379.7	2377.7	2369.2	2384.3	2384.3
12°	2245.2	2249.8	2241.9	2255.0	2250.4
13°	2110.7	2108.7	2109.4	2119.2	2112.0
14°	1958.5	1970.3	1972.3	1978.2	1967.0
15°	1812.8	1827.9	1824.6	1833.2	1818.7
16°	1663.9	1680.9	1680.3	1682.3	1668.5
17°	1524.8	1534.6	1535.3	1533.3	1516.3
18°	1376.5	1390.3	1390.3	1387.0	1366.7
19°	1231.5	1242.0	1249.2	1242.0	1218.4
20°	1100.9	1108.2	1121.3	1102.9	1076.7
21°	975.6	982.2	993.3	971.7	942.8
22°	855.6	864.1	874.6	849.7	819.5
23°	743.4	763.1	767.0	732.9	707.3
24°	640.4	662.7	669.2	634.5	607.6
25°	548.5	573.4	588.5	547.8	520.9
26°	469.1	493.4	511.8	471.1	445.5
27°	399.6	425.2	444.2	406.1	381.9
28°	339.9	364.8	384.5	349.0	326.1
29°	295.2	309.7	329.4	299.8	278.8
30°	251.3	267.0	288.0	257.8	239.5
32.5°	172.6	181.1	197.5	179.1	164.7
35°	122.7	127.9	135.8	123.3	114.8
37.5°	87.3	89.9	94.5	87.3	82.7
40°	64.3	65.6	67.6	63.6	61.0
42.5°	47.9	48.6	48.6	47.2	45.9
45°	36.1	36.7	36.1	36.1	34.8
47.5°	26.2	28.2	27.6	27.6	25.6
50°	17.1	21.0	21.0	20.3	17.1
52.5°	10.5	14.4	16.4	14.4	11.2
55°	7.9	9.8	12.5	9.8	8.5
57.5°	7.9	7.9	9.2	7.9	7.9
60°	7.9	7.9	7.9	7.9	7.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	7.2	7.2	7.2	7.2	7.2
70°	7.2	7.2	6.6	7.2	7.2
72.5°	6.6	6.6	5.9	6.6	5.9
75°	5.2	5.2	5.2	5.2	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	2.0	2.0	2.0	2.6	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°







62.5°	7.9	7.9	7.9	7.9	7.9
65°	7.2	7.9	7.2	7.9	7.2



(END OF REPORT)