

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: P283690

Luminaire Tested: **LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283690
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: LDA2B159050D010 EU2B15FL409050 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: 1100.6 lumens
Efficiency: N/A
Efficacy: 78.1 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

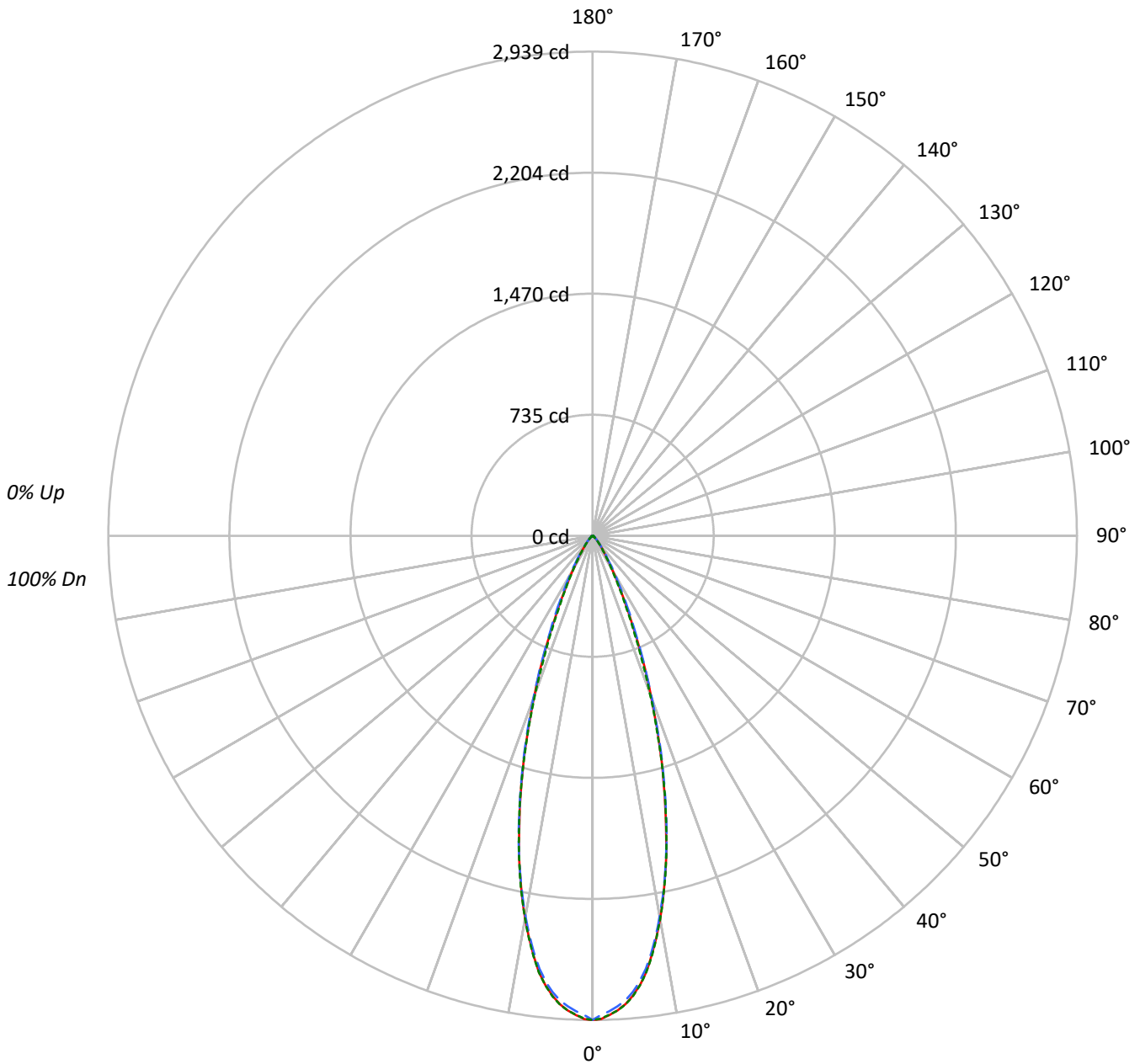
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283690

CATALOG NUMBER: LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283690

CATALOG NUMBER: LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MMS

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°	1450040	1450040	1450040
5°	1387680	1377280	1389810
10°	1182245	1174831	1183498
15°	871366	877036	874227
20°	543978	554006	531955
25°	281001	301523	266902
30°	134731	154442	128407
35°	69564	76972	65107
40°	38964	40961	36968
45°	23722	23722	22815
50°	12357	15197	12357
55°	6365	10064	6881
60°	7302	7302	7302
65°	7938	7938	7938
70°	9809	8943	9809
75°	9340	9340	9340
80°	8808	8808	8808
85°	6793	6793	6793



TEST NUMBER: P283690

CATALOG NUMBER: LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	23.0
10°-20°	464.4	42.2
20°-30°	251.8	22.9
30°-40°	80.8	7.3
40°-50°	27.6	2.5
50°-60°	9.6	0.9
60°-70°	7.0	0.6
70°-80°	5.1	0.5
80°-90°	1.5	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°	968.9	88.0
0°-40°	1049.7	95.4
0°-60°	1086.9	98.8
0°-90°	1100.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2939	2939	2939	2939	2939	
5°	2802	2785	2781	2809	2806	253
15°	1706	1720	1717	1725	1712	462
25°	516	540	554	516	490	247
35°	116	120	128	116	108	78
45°	34	35	34	34	33	27
55°	7	9	12	9	8	8
65°	7	7	7	7	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283690

CATALOG NUMBER: LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2939.1	2939.1	2939.1	2939.1	2939.1
1°	2934.1	2913.1	2910.0	2937.2	2931.0
2°	2910.7	2890.9	2887.8	2915.0	2909.4
3°	2884.7	2866.8	2860.6	2889.0	2885.3
4°	2850.1	2833.5	2827.9	2856.3	2853.2
5°	2802.0	2784.7	2781.0	2808.8	2806.3
6°	2742.7	2728.5	2721.7	2749.5	2744.6
7°	2668.6	2655.7	2648.2	2668.6	2671.1
8°	2572.3	2566.1	2557.5	2577.9	2577.9
9°	2469.8	2464.2	2455.0	2473.5	2473.5
10°	2359.9	2356.2	2345.1	2362.4	2362.4
11°	2239.5	2237.6	2229.6	2243.8	2243.8
12°	2112.9	2117.2	2109.8	2122.2	2117.9
13°	1986.3	1984.5	1985.1	1994.4	1987.6
14°	1843.1	1854.2	1856.1	1861.6	1851.1
15°	1706.0	1720.2	1717.1	1725.2	1711.6
16°	1565.9	1581.9	1581.3	1583.1	1570.2
17°	1435.0	1444.2	1444.8	1443.0	1426.9
18°	1295.4	1308.4	1308.4	1305.3	1286.1
19°	1159.0	1168.8	1175.6	1168.8	1146.6
20°	1036.1	1042.9	1055.2	1037.9	1013.2
21°	918.1	924.3	934.8	914.4	887.3
22°	805.2	813.2	823.1	799.6	771.2
23°	699.6	718.1	721.8	689.7	665.6
24°	602.6	623.6	629.8	597.1	571.8
25°	516.2	539.7	553.9	515.6	490.3
26°	441.5	464.3	481.6	443.3	419.2
27°	376.0	400.1	418.0	382.2	359.4
28°	319.8	343.3	361.8	328.5	306.9
29°	277.9	291.4	310.0	282.2	262.4
30°	236.5	251.3	271.1	242.7	225.4
32.5°	162.4	170.4	185.9	168.6	155.0
35°	115.5	120.4	127.8	116.1	108.1
37.5°	82.1	84.6	88.9	82.1	77.8
40°	60.5	61.7	63.6	59.9	57.4
42.5°	45.1	45.7	45.7	44.5	43.2
45°	34.0	34.6	34.0	34.0	32.7
47.5°	24.7	26.6	25.9	25.9	24.1
50°	16.1	19.8	19.8	19.1	16.1
52.5°	9.9	13.6	15.4	13.6	10.5
55°	7.4	9.3	11.7	9.3	8.0
57.5°	7.4	7.4	8.6	7.4	7.4
60°	7.4	7.4	7.4	7.4	7.4



TEST NUMBER: P283690

CATALOG NUMBER: LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.8	6.8	6.8	6.8	6.8
70°	6.8	6.8	6.2	6.8	6.8
72.5°	6.2	6.2	5.6	6.2	5.6
75°	4.9	4.9	4.9	4.9	4.9
77.5°	3.7	3.7	3.7	3.7	3.7
80°	3.1	3.1	3.1	3.1	3.1
82.5°	1.9	1.9	1.9	2.5	1.9
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.8	7.4	6.8	7.4	6.8



(END OF REPORT)