

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: P283654

Luminaire Tested: **LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283654
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: LDA2B158050D010 EU2B15FL408050 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: 1309.7 lumens
Efficiency: N/A
Efficacy: 92.9 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

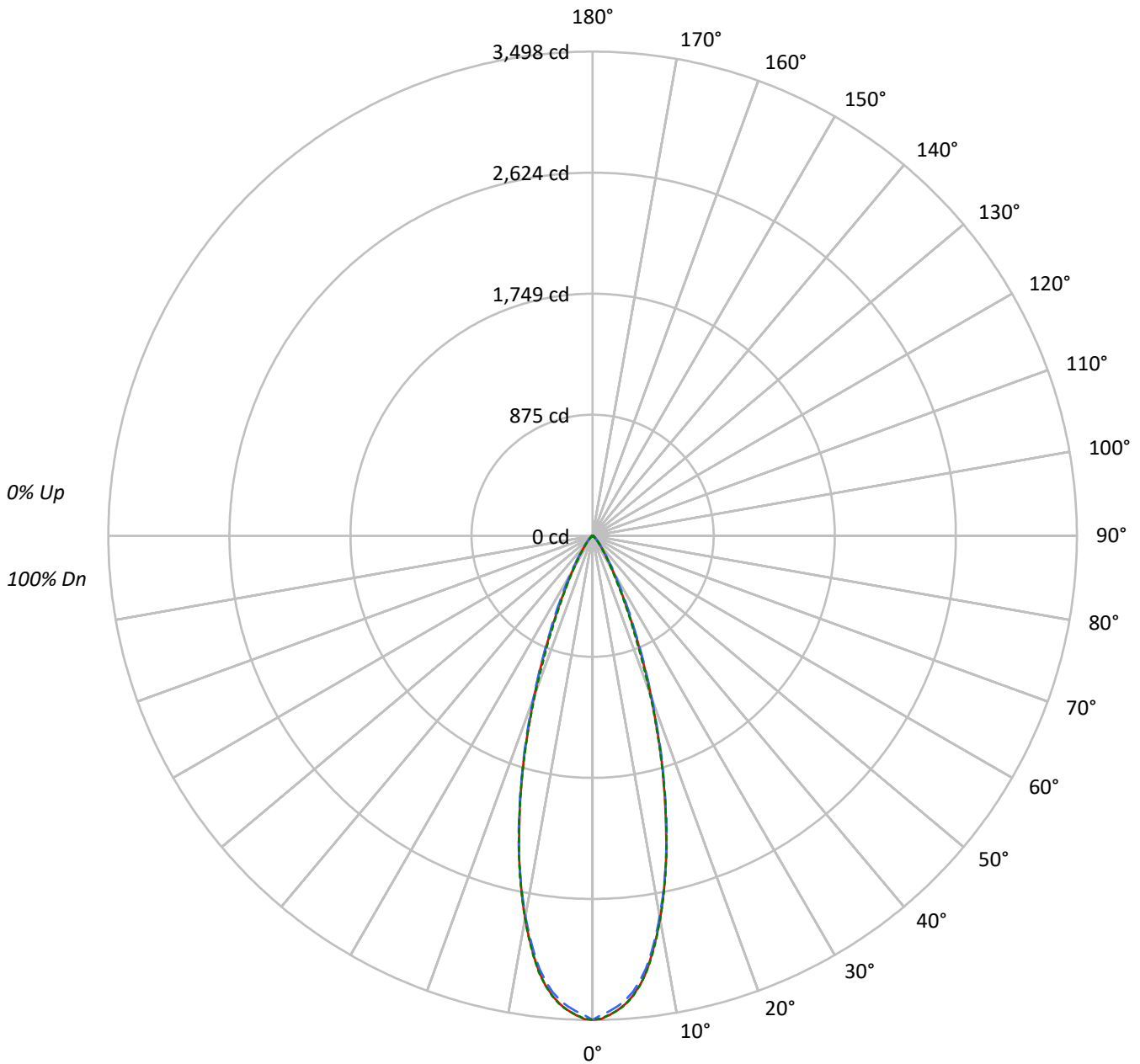
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283654

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283654

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 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°	1725632	1725632	1725632
5°	1651448	1639067	1653974
10°	1406932	1398115	1408435
15°	1037008	1043750	1040379
20°	647355	659326	633075
25°	334403	358791	317582
30°	160309	183780	152790
35°	82754	91607	77454
40°	46371	48754	43988
45°	28188	28188	27141
50°	14660	18037	14660
55°	7569	12042	8257
60°	8683	8683	8683
65°	9456	9456	9456
70°	11684	10530	11684
75°	11247	11247	11247
80°	10512	10512	10512
85°	8491	8491	8491



TEST NUMBER: P283654

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.9	23.0
10°-20°	552.6	42.2
20°-30°	299.6	22.9
30°-40°	96.2	7.3
40°-50°	32.8	2.5
50°-60°	11.5	0.9
60°-70°	8.4	0.6
70°-80°	6.1	0.5
80°-90°	1.7	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°	1153.1	88.0
0°-40°	1249.2	95.4
0°-60°	1293.5	98.8
0°-90°	1309.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3498	3498	3498	3498	3498	
5°	3335	3314	3310	3343	3340	302
15°	2030	2047	2044	2053	2037	550
25°	614	642	659	614	583	294
35°	137	143	152	138	129	93
45°	40	41	40	40	39	32
55°	9	11	14	11	10	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P283654

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3497.7	3497.7	3497.7	3497.7	3497.7
1°	3491.8	3466.8	3463.2	3495.5	3488.1
2°	3463.9	3440.4	3436.7	3469.0	3462.4
3°	3433.0	3411.7	3404.4	3438.2	3433.8
4°	3391.9	3372.0	3365.4	3399.2	3395.6
5°	3334.6	3314.0	3309.6	3342.6	3339.7
6°	3264.0	3247.1	3239.0	3272.1	3266.2
7°	3175.8	3160.4	3151.6	3175.8	3178.8
8°	3061.2	3053.9	3043.6	3067.8	3067.8
9°	2939.2	2932.6	2921.6	2943.6	2943.6
10°	2808.4	2804.0	2790.8	2811.4	2811.4
11°	2665.2	2663.0	2653.4	2670.3	2670.3
12°	2514.5	2519.7	2510.8	2525.5	2520.4
13°	2363.9	2361.7	2362.4	2373.4	2365.4
14°	2193.4	2206.6	2208.8	2215.5	2203.0
15°	2030.3	2047.2	2043.5	2053.1	2036.9
16°	1863.5	1882.6	1881.8	1884.1	1868.6
17°	1707.7	1718.7	1719.5	1717.3	1698.1
18°	1541.6	1557.1	1557.1	1553.4	1530.6
19°	1379.2	1391.0	1399.1	1391.0	1364.5
20°	1233.0	1241.1	1255.8	1235.2	1205.8
21°	1092.7	1100.0	1112.5	1088.3	1055.9
22°	958.2	967.7	979.5	951.6	917.8
23°	832.5	854.6	859.0	820.8	792.1
24°	717.2	742.2	749.5	710.6	680.4
25°	614.3	642.2	659.1	613.6	583.4
26°	525.4	552.6	573.2	527.6	498.9
27°	447.5	476.2	497.5	454.8	427.7
28°	380.6	408.6	430.6	390.9	365.2
29°	330.7	346.8	368.9	335.8	312.3
30°	281.4	299.1	322.6	288.8	268.2
32.5°	193.3	202.8	221.2	200.6	184.4
35°	137.4	143.3	152.1	138.1	128.6
37.5°	97.7	100.7	105.8	97.7	92.6
40°	72.0	73.5	75.7	71.3	68.3
42.5°	53.6	54.4	54.4	52.9	51.4
45°	40.4	41.1	40.4	40.4	38.9
47.5°	29.4	31.6	30.9	30.9	28.7
50°	19.1	23.5	23.5	22.8	19.1
52.5°	11.8	16.2	18.4	16.2	12.5
55°	8.8	11.0	14.0	11.0	9.6
57.5°	8.8	8.8	10.3	8.8	8.8
60°	8.8	8.8	8.8	8.8	8.8



TEST NUMBER: P283654

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.1	8.1	8.1	8.1	8.1
70°	8.1	8.1	7.3	8.1	8.1
72.5°	7.3	7.3	6.6	7.3	6.6
75°	5.9	5.9	5.9	5.9	5.9
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.7	3.7	3.7	3.7	3.7
82.5°	2.2	2.2	2.2	2.9	2.2
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	8.8	8.8	8.8	8.8	8.8
65°	8.1	8.8	8.1	8.8	8.1



(END OF REPORT)