

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: P283648

Luminaire Tested: **LDA2B158040D010 EU2B15FL408040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283648
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: LDA2B158040D010 EU2B15FL408040 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: 1318.3 lumens
Efficiency: N/A
Efficacy: 93.5 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

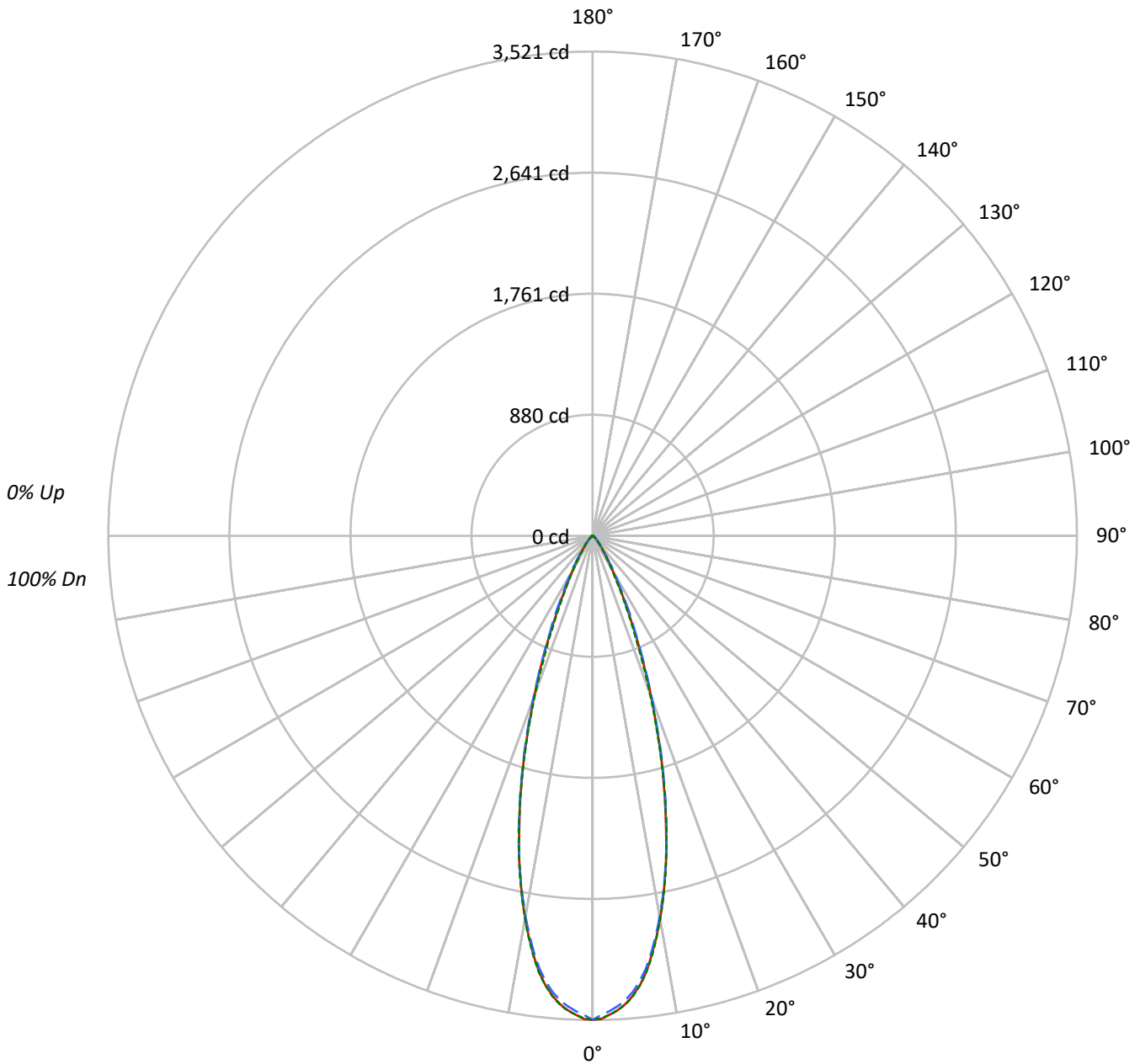
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283648

CATALOG NUMBER: LDA2B158040D010 EU2B15FL408040 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283648

CATALOG NUMBER: LDA2B158040D010 EU2B15FL408040 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°	1736930	1736930	1736930
5°	1662245	1649814	1664820
10°	1416200	1407282	1417653
15°	1043801	1050594	1047223
20°	651608	663631	637222
25°	336581	361131	319705
30°	161392	184977	153815
35°	83296	92210	77935
40°	46693	49076	44310
45°	28397	28397	27351
50°	14737	18191	14737
55°	7655	12128	8257
60°	8782	8782	8782
65°	9456	9456	9456
70°	11684	10674	11684
75°	11247	11247	11247
80°	10512	10512	10512
85°	8491	8491	8491



TEST NUMBER: P283648

CATALOG NUMBER: LDA2B158040D010 EU2B15FL408040 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	23.0
10°-20°	556.2	42.2
20°-30°	301.6	22.9
30°-40°	96.8	7.3
40°-50°	33.0	2.5
50°-60°	11.6	0.9
60°-70°	8.4	0.6
70°-80°	6.1	0.5
80°-90°	1.8	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°	1160.6	88.0
0°-40°	1257.4	95.4
0°-60°	1302.0	98.8
0°-90°	1318.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3521	3521	3521	3521	3521	
5°	3356	3336	3331	3365	3362	304
15°	2044	2061	2057	2066	2050	554
25°	618	646	663	618	587	296
35°	138	144	153	139	129	93
45°	41	41	41	41	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: P283648

CATALOG NUMBER: LDA2B158040D010 EU2B15FL408040 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3520.6	3520.6	3520.6	3520.6	3520.6
1°	3514.7	3489.6	3485.9	3518.4	3511.0
2°	3486.6	3463.0	3459.3	3491.8	3485.1
3°	3455.6	3434.1	3426.7	3460.7	3456.3
4°	3414.1	3394.2	3387.5	3421.5	3417.8
5°	3356.4	3335.7	3331.3	3364.6	3361.6
6°	3285.4	3268.4	3260.3	3293.6	3287.7
7°	3196.7	3181.2	3172.3	3196.7	3199.6
8°	3081.3	3073.9	3063.6	3088.0	3088.0
9°	2958.5	2951.9	2940.8	2963.0	2963.0
10°	2826.9	2822.4	2809.1	2829.8	2829.8
11°	2682.6	2680.4	2670.8	2687.8	2687.8
12°	2531.0	2536.2	2527.3	2542.1	2536.9
13°	2379.4	2377.2	2377.9	2389.0	2380.9
14°	2207.8	2221.1	2223.3	2230.0	2217.4
15°	2043.6	2060.6	2056.9	2066.5	2050.3
16°	1875.7	1894.9	1894.2	1896.4	1880.9
17°	1718.9	1730.0	1730.7	1728.5	1709.3
18°	1551.7	1567.3	1567.3	1563.6	1540.7
19°	1388.3	1400.1	1408.3	1400.1	1373.5
20°	1241.1	1249.2	1264.0	1243.3	1213.7
21°	1099.8	1107.2	1119.8	1095.4	1062.9
22°	964.5	974.1	985.9	957.8	923.8
23°	838.0	860.2	864.6	826.2	797.3
24°	721.9	747.0	754.4	715.2	684.9
25°	618.3	646.4	663.4	617.6	587.3
26°	528.8	556.2	576.9	531.1	502.2
27°	450.4	479.3	500.7	457.8	430.5
28°	383.1	411.2	433.4	393.5	367.6
29°	332.8	349.1	371.3	338.0	314.3
30°	283.3	301.0	324.7	290.7	270.0
32.5°	194.5	204.1	222.6	201.9	185.6
35°	138.3	144.2	153.1	139.1	129.4
37.5°	98.4	101.3	106.5	98.4	93.2
40°	72.5	74.0	76.2	71.7	68.8
42.5°	54.0	54.7	54.7	53.3	51.8
45°	40.7	41.4	40.7	40.7	39.2
47.5°	29.6	31.8	31.1	31.1	28.8
50°	19.2	23.7	23.7	22.9	19.2
52.5°	11.8	16.3	18.5	16.3	12.6
55°	8.9	11.1	14.1	11.1	9.6
57.5°	8.9	8.9	10.4	8.9	8.9
60°	8.9	8.9	8.9	8.9	8.9



TEST NUMBER: P283648

CATALOG NUMBER: LDA2B158040D010 EU2B15FL408040 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	7.4	8.1	8.1
72.5°	7.4	7.4	6.7	7.4	6.7
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	3.0	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°	8.9	8.9	8.9	8.9	8.9
65°	8.1	8.9	8.1	8.9	8.1



(END OF REPORT)