

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: P283644

Luminaire Tested: **LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283644
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: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1164.4 lumens
Efficiency: N/A
Efficacy: 82.6 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

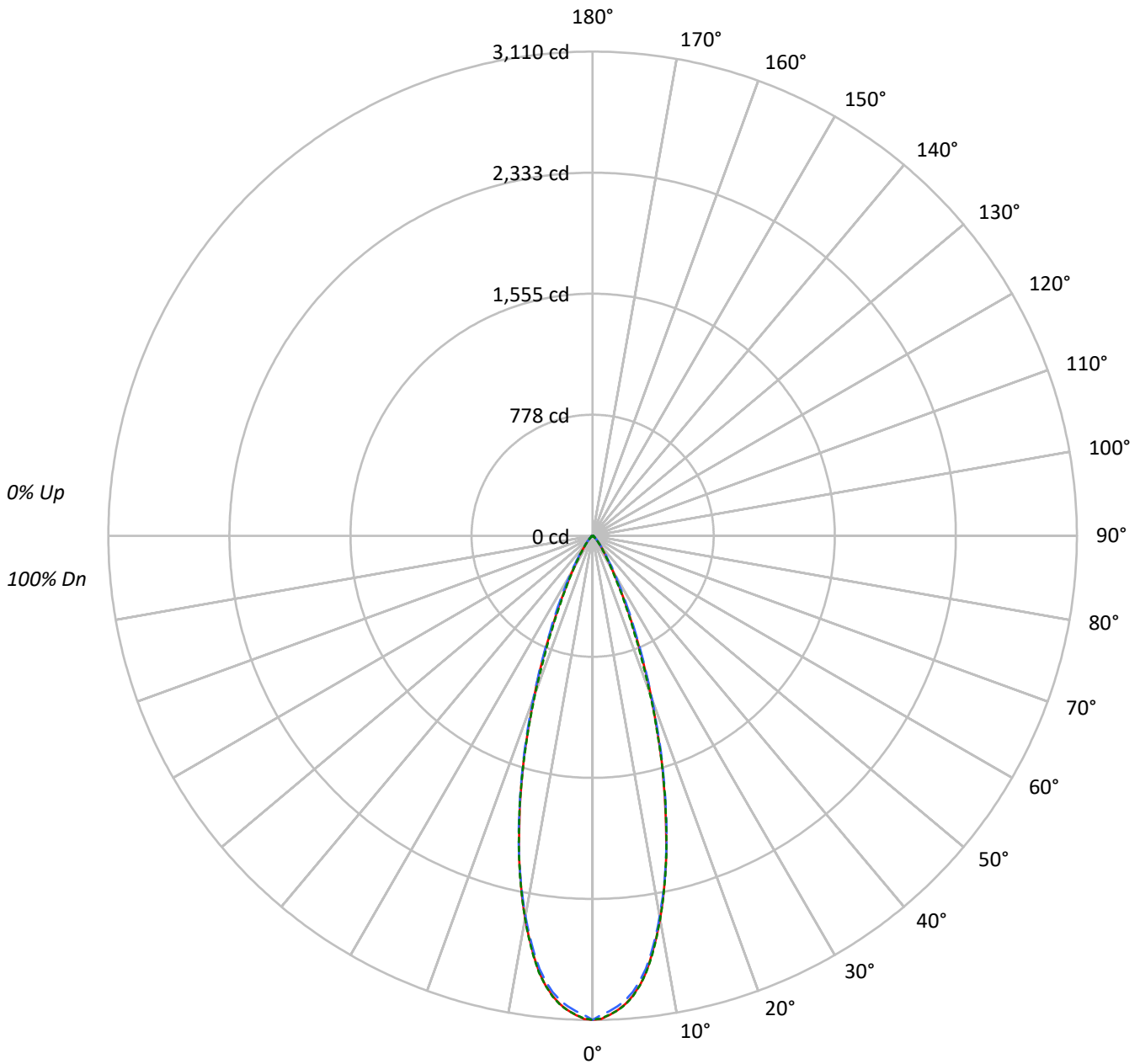
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283644

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P283644

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MB

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°	1534207	1534207	1534207
5°	1468257	1457262	1470535
10°	1250879	1243013	1252181
15°	921983	927959	924997
20°	575532	586190	562879
25°	297332	318998	282362
30°	142535	163386	135870
35°	73599	81429	68841
40°	41218	43344	39158
45°	25048	25048	24141
50°	13048	16041	13048
55°	6709	10666	7311
60°	7696	7696	7696
65°	8405	8405	8405
70°	10386	9376	10386
75°	9912	9912	9912
80°	9376	9376	9376
85°	7359	7359	7359



TEST NUMBER: P283644

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	23.0
10°-20°	491.3	42.2
20°-30°	266.4	22.9
30°-40°	85.5	7.3
40°-50°	29.1	2.5
50°-60°	10.2	0.9
60°-70°	7.4	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°	1025.2	88.0
0°-40°	1110.7	95.4
0°-60°	1150.0	98.8
0°-90°	1164.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3110	3110	3110	3110	3110	
5°	2965	2946	2942	2972	2969	268
15°	1805	1820	1817	1825	1811	489
25°	546	571	586	546	519	262
35°	122	127	135	123	114	82
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	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P283644

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3109.7	3109.7	3109.7	3109.7	3109.7
1°	3104.5	3082.3	3079.0	3107.8	3101.2
2°	3079.7	3058.8	3055.5	3084.2	3078.4
3°	3052.2	3033.3	3026.8	3056.8	3052.9
4°	3015.7	2998.0	2992.1	3022.2	3018.9
5°	2964.7	2946.4	2942.5	2971.9	2969.3
6°	2902.0	2887.0	2879.8	2909.2	2903.9
7°	2823.6	2809.9	2802.0	2823.6	2826.2
8°	2721.7	2715.1	2706.0	2727.5	2727.5
9°	2613.2	2607.3	2597.5	2617.1	2617.1
10°	2496.9	2493.0	2481.2	2499.5	2499.5
11°	2369.5	2367.6	2359.1	2374.1	2374.1
12°	2235.6	2240.2	2232.3	2245.4	2240.8
13°	2101.7	2099.7	2100.4	2110.2	2103.0
14°	1950.1	1961.9	1963.8	1969.7	1958.6
15°	1805.1	1820.1	1816.8	1825.3	1811.0
16°	1656.8	1673.8	1673.1	1675.1	1661.4
17°	1518.3	1528.1	1528.7	1526.8	1509.8
18°	1370.6	1384.4	1384.4	1381.1	1360.8
19°	1226.3	1236.7	1243.9	1236.7	1213.2
20°	1096.2	1103.4	1116.5	1098.2	1072.1
21°	971.5	978.0	989.1	967.5	938.8
22°	851.9	860.4	870.9	846.0	816.0
23°	740.2	759.8	763.7	729.7	704.3
24°	637.6	659.8	666.4	631.7	605.0
25°	546.2	571.0	586.0	545.5	518.7
26°	467.1	491.3	509.6	469.1	443.6
27°	397.9	423.3	442.3	404.4	380.2
28°	338.4	363.2	382.8	347.6	324.7
29°	294.0	308.4	328.0	298.6	277.7
30°	250.2	265.9	286.8	256.7	238.5
32.5°	171.8	180.3	196.6	178.4	164.0
35°	122.2	127.4	135.2	122.8	114.3
37.5°	86.9	89.5	94.1	86.9	82.3
40°	64.0	65.3	67.3	63.4	60.8
42.5°	47.7	48.3	48.3	47.0	45.7
45°	35.9	36.6	35.9	35.9	34.6
47.5°	26.1	28.1	27.4	27.4	25.5
50°	17.0	20.9	20.9	20.3	17.0
52.5°	10.5	14.4	16.3	14.4	11.1
55°	7.8	9.8	12.4	9.8	8.5
57.5°	7.8	7.8	9.1	7.8	7.8
60°	7.8	7.8	7.8	7.8	7.8



TEST NUMBER: P283644

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MB

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	6.5	7.2	7.2
72.5°	6.5	6.5	5.9	6.5	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



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	7.8	7.8	7.8	7.8	7.8
65°	7.2	7.8	7.2	7.8	7.2



(END OF REPORT)