

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: P283645

Luminaire Tested: **LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283645
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 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: 1182.5 lumens
Efficiency: N/A
Efficacy: 83.9 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

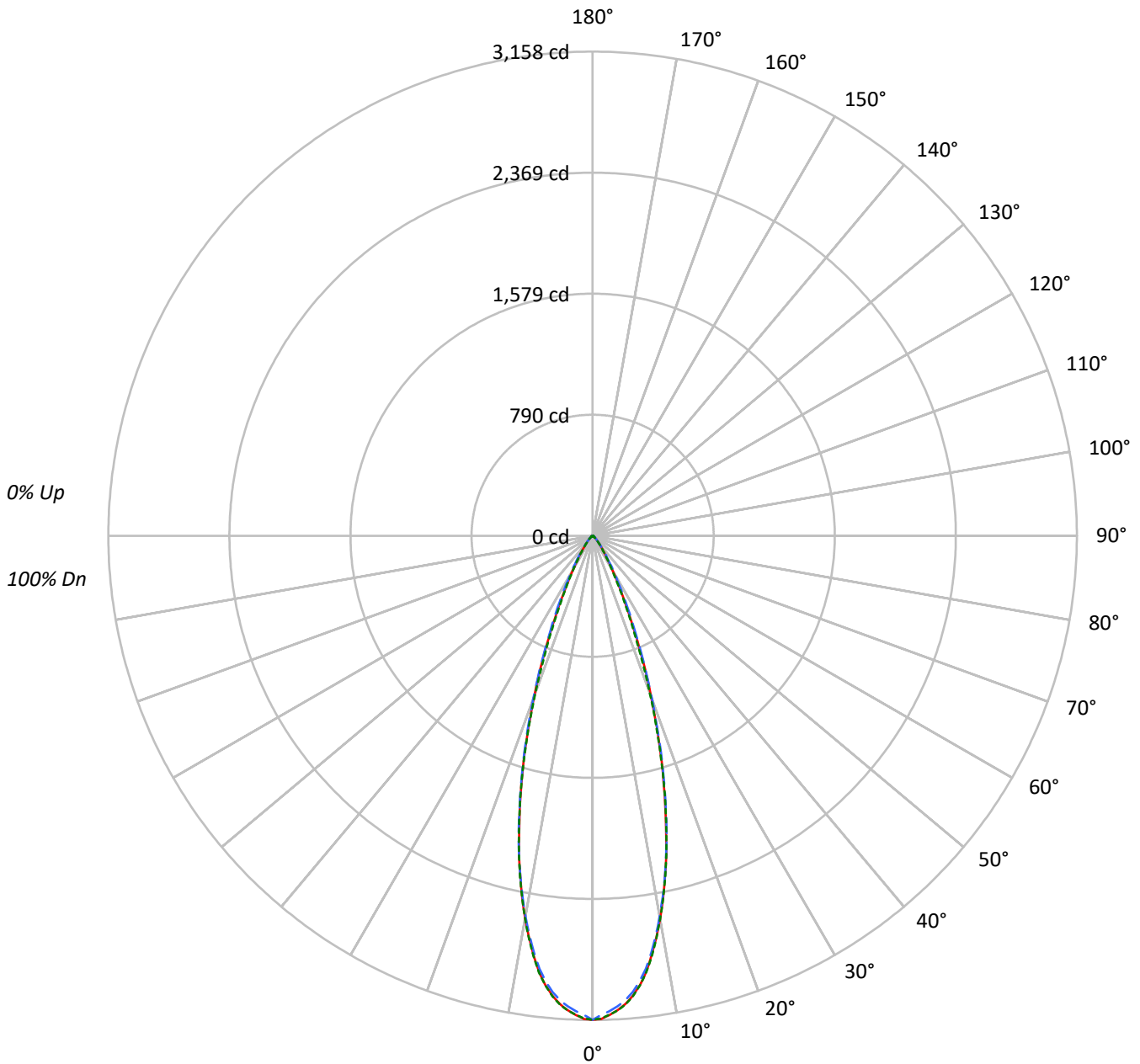
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283645

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283645

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MMS

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°	1557889	1557889	1557889
5°	1490890	1479747	1493217
10°	1270216	1262201	1271519
15°	936182	942312	939247
20°	584457	595220	571542
25°	301905	323951	286717
30°	144757	165892	137921
35°	74743	82694	69925
40°	41862	43988	39737
45°	25467	25467	24560
50°	13202	16272	13202
55°	6881	10838	7397
60°	7894	7894	7894
65°	8522	8522	8522
70°	10530	9520	10530
75°	10103	10103	10103
80°	9376	9376	9376
85°	7359	7359	7359



TEST NUMBER: P283645

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	23.0
10°-20°	498.9	42.2
20°-30°	270.5	22.9
30°-40°	86.8	7.3
40°-50°	29.6	2.5
50°-60°	10.4	0.9
60°-70°	7.6	0.6
70°-80°	5.5	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°	1041.0	88.0
0°-40°	1127.8	95.4
0°-60°	1167.8	98.8
0°-90°	1182.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3158	3158	3158	3158	3158	
5°	3010	2992	2988	3018	3015	272
15°	1833	1848	1845	1854	1839	497
25°	555	580	595	554	527	266
35°	124	129	137	125	116	84
45°	36	37	36	36	35	29
55°	8	10	13	10	9	9
65°	7	8	7	8	7	8
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P283645

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3157.7	3157.7	3157.7	3157.7	3157.7
1°	3152.4	3129.9	3126.5	3155.7	3149.1
2°	3127.2	3106.0	3102.7	3131.8	3125.9
3°	3099.3	3080.1	3073.5	3104.0	3100.0
4°	3062.2	3044.3	3038.3	3068.8	3065.5
5°	3010.4	2991.9	2987.9	3017.7	3015.1
6°	2946.8	2931.5	2924.2	2954.1	2948.8
7°	2867.2	2853.2	2845.3	2867.2	2869.8
8°	2763.7	2757.0	2747.7	2769.6	2769.6
9°	2653.5	2647.6	2637.6	2657.5	2657.5
10°	2535.5	2531.5	2519.5	2538.1	2538.1
11°	2406.1	2404.1	2395.5	2410.7	2410.7
12°	2270.1	2274.8	2266.8	2280.1	2275.4
13°	2134.1	2132.1	2132.8	2142.7	2135.4
14°	1980.2	1992.1	1994.1	2000.1	1988.8
15°	1832.9	1848.2	1844.9	1853.5	1838.9
16°	1682.3	1699.6	1698.9	1700.9	1687.0
17°	1541.7	1551.7	1552.3	1550.3	1533.1
18°	1391.8	1405.7	1405.7	1402.4	1381.8
19°	1245.2	1255.8	1263.1	1255.8	1231.9
20°	1113.2	1120.5	1133.7	1115.2	1088.6
21°	986.5	993.1	1004.4	982.5	953.3
22°	865.1	873.7	884.3	859.1	828.6
23°	751.6	771.5	775.5	741.0	715.1
24°	647.5	670.0	676.7	641.5	614.3
25°	554.6	579.8	595.1	553.9	526.7
26°	474.3	498.9	517.4	476.3	450.4
27°	404.0	429.9	449.1	410.6	386.1
28°	343.6	368.8	388.7	352.9	329.7
29°	298.5	313.1	333.0	303.2	281.9
30°	254.1	270.0	291.2	260.7	242.1
32.5°	174.5	183.1	199.7	181.1	166.5
35°	124.1	129.4	137.3	124.7	116.1
37.5°	88.2	90.9	95.5	88.2	83.6
40°	65.0	66.3	68.3	64.3	61.7
42.5°	48.4	49.1	49.1	47.8	46.4
45°	36.5	37.1	36.5	36.5	35.2
47.5°	26.5	28.5	27.9	27.9	25.9
50°	17.2	21.2	21.2	20.6	17.2
52.5°	10.6	14.6	16.6	14.6	11.3
55°	8.0	10.0	12.6	10.0	8.6
57.5°	8.0	8.0	9.3	8.0	8.0
60°	8.0	8.0	8.0	8.0	8.0



TEST NUMBER: P283645

CATALOG NUMBER: LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.3	7.3	7.3	7.3	7.3
70°	7.3	7.3	6.6	7.3	7.3
72.5°	6.6	6.6	6.0	6.6	6.0
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.3	3.3	3.3	3.3	3.3
82.5°	2.0	2.0	2.0	2.7	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°	8.0	8.0	8.0	8.0	8.0
65°	7.3	8.0	7.3	8.0	7.3



(END OF REPORT)