

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: P283657

Luminaire Tested: **LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283657  
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 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: 1222.7 lumens  
Efficiency: N/A  
Efficacy: 86.7 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

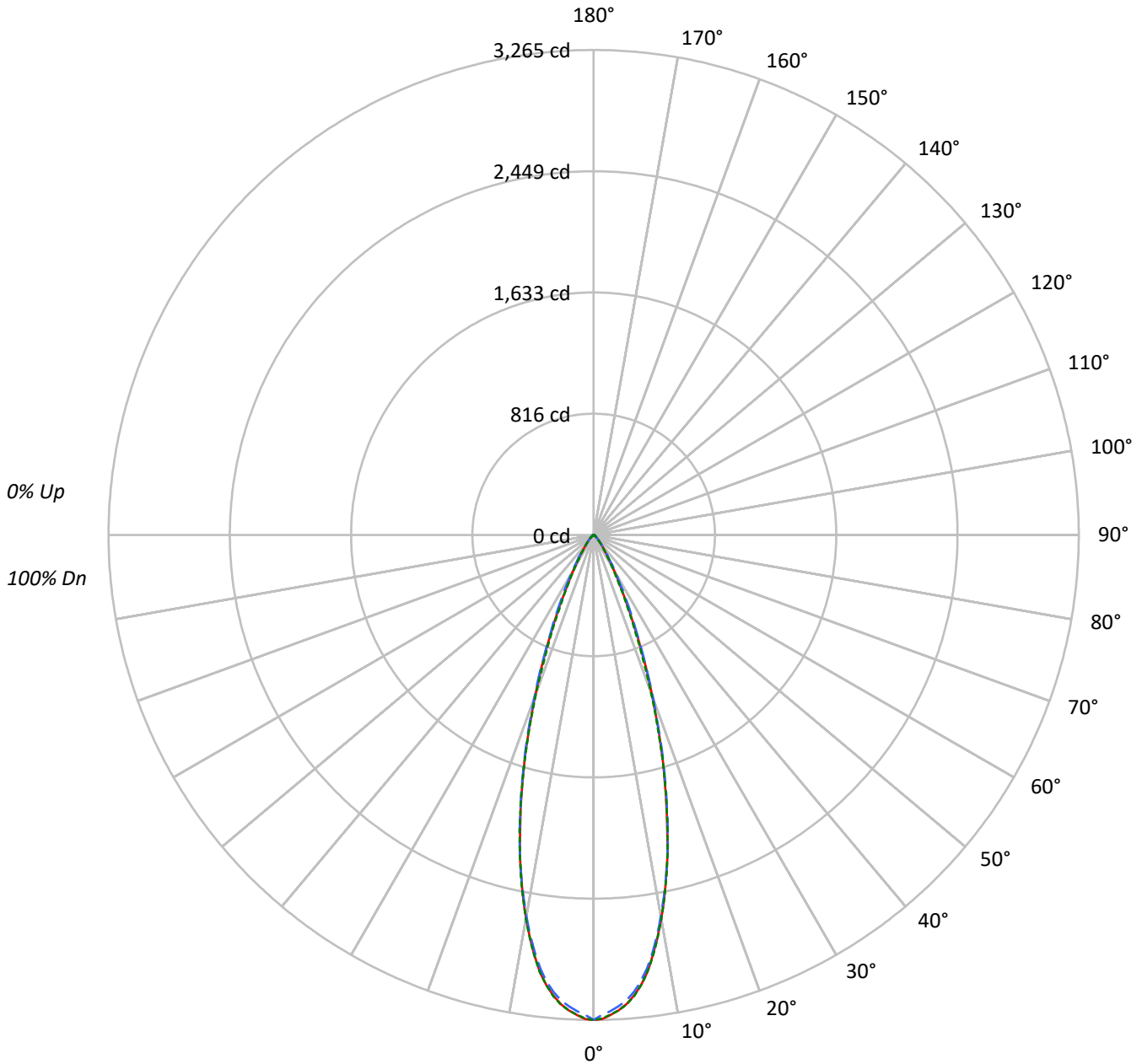
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P283657

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P283657

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 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°	1611024	1611024	1611024
5°	1541751	1530212	1544129
10°	1313550	1305284	1314903
15°	968156	974439	971272
20°	604356	615539	591073
25°	312193	335002	296515
30°	149656	171589	142649
35°	77273	85524	72334
40°	43279	45533	41090
45°	26304	26304	25397
50°	13662	16886	13662
55°	7053	11182	7655
60°	8091	8091	8091
65°	8755	8755	8755
70°	10819	9953	10819
75°	10484	10484	10484
80°	9660	9660	9660
85°	7925	7925	7925



TEST NUMBER: P283657

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.9	23.0
10°-20°	515.9	42.2
20°-30°	279.7	22.9
30°-40°	89.8	7.3
40°-50°	30.6	2.5
50°-60°	10.7	0.9
60°-70°	7.8	0.6
70°-80°	5.7	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°	1076.5	88.0
0°-40°	1166.3	95.4
0°-60°	1207.6	98.8
0°-90°	1222.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3265	3265	3265	3265	3265	
5°	3113	3094	3090	3121	3118	282
15°	1896	1911	1908	1917	1902	514
25°	574	600	615	573	545	275
35°	128	134	142	129	120	86
45°	38	38	38	38	36	30
55°	8	10	13	10	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P283657

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3265.4	3265.4	3265.4	3265.4	3265.4
1°	3260.0	3236.6	3233.2	3263.4	3256.5
2°	3233.9	3211.9	3208.5	3238.7	3232.5
3°	3205.1	3185.2	3178.3	3209.9	3205.8
4°	3166.7	3148.1	3142.0	3173.5	3170.1
5°	3113.1	3093.9	3089.8	3120.7	3117.9
6°	3047.3	3031.5	3024.0	3054.8	3049.3
7°	2965.0	2950.6	2942.3	2965.0	2967.7
8°	2857.9	2851.1	2841.5	2864.1	2864.1
9°	2744.1	2737.9	2727.6	2748.2	2748.2
10°	2622.0	2617.8	2605.5	2624.7	2624.7
11°	2488.2	2486.1	2477.2	2493.0	2493.0
12°	2347.6	2352.4	2344.1	2357.8	2353.0
13°	2206.9	2204.9	2205.5	2215.8	2208.3
14°	2047.8	2060.1	2062.2	2068.3	2056.7
15°	1895.5	1911.2	1907.8	1916.7	1901.6
16°	1739.7	1757.6	1756.9	1758.9	1744.5
17°	1594.3	1604.6	1605.3	1603.2	1585.4
18°	1439.3	1453.7	1453.7	1450.2	1429.0
19°	1287.7	1298.6	1306.2	1298.6	1273.9
20°	1151.1	1158.7	1172.4	1153.2	1125.8
21°	1020.1	1027.0	1038.6	1016.0	985.8
22°	894.6	903.5	914.5	888.4	856.8
23°	777.3	797.8	802.0	766.3	739.5
24°	669.6	692.9	699.7	663.4	635.3
25°	573.5	599.6	615.4	572.8	544.7
26°	490.5	515.9	535.1	492.6	465.8
27°	417.8	444.5	464.4	424.6	399.3
28°	355.4	381.4	402.0	365.0	341.0
29°	308.7	323.8	344.4	313.5	291.6
30°	262.7	279.2	301.2	269.6	250.4
32.5°	180.4	189.3	206.5	187.3	172.2
35°	128.3	133.8	142.0	129.0	120.1
37.5°	91.2	94.0	98.8	91.2	86.4
40°	67.2	68.6	70.7	66.5	63.8
42.5°	50.1	50.8	50.8	49.4	48.0
45°	37.7	38.4	37.7	37.7	36.4
47.5°	27.4	29.5	28.8	28.8	26.8
50°	17.8	22.0	22.0	21.3	17.8
52.5°	11.0	15.1	17.2	15.1	11.7
55°	8.2	10.3	13.0	10.3	8.9
57.5°	8.2	8.2	9.6	8.2	8.2
60°	8.2	8.2	8.2	8.2	8.2



TEST NUMBER: P283657

CATALOG NUMBER: LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MMS

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	7.5	7.5	7.5	7.5	7.5
70°	7.5	7.5	6.9	7.5	7.5
72.5°	6.9	6.9	6.2	6.9	6.2
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.1	2.1	2.1	2.7	2.1
85°	1.4	1.4	1.4	1.4	1.4
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°	8.2	8.2	8.2	8.2	8.2
65°	7.5	8.2	7.5	8.2	7.5



(END OF REPORT)