

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: P283488

Luminaire Tested: **LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283488  
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: LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 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: 666.1 lumens  
Efficiency: N/A  
Efficacy: 95.2 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

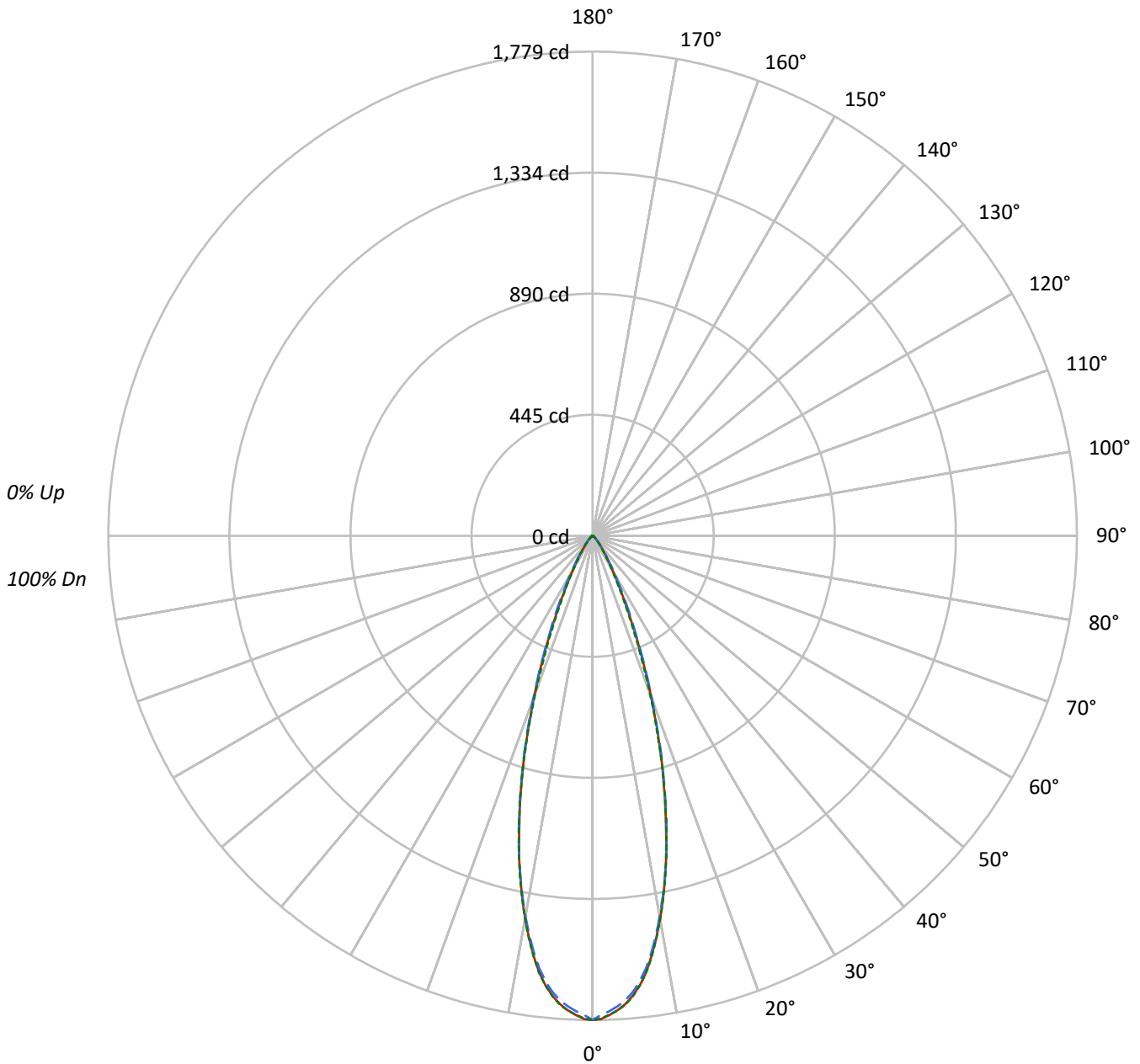
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P283488

CATALOG NUMBER: LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P283488

CATALOG NUMBER: LDA2B058050D010 EU2B05FL408050 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°	877691	877691	877691
5°	839938	833648	841225
10°	715589	711081	716341
15°	527417	530839	529153
20°	329243	335333	321998
25°	170059	182471	161513
30°	81522	93485	77705
35°	42100	46617	39389
40°	23572	24795	22413
45°	14373	14373	13815
50°	7445	9210	7445
55°	3871	6107	4215
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5337	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	3962	3962	3962



TEST NUMBER: P283488

CATALOG NUMBER: LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	23.0
10°-20°	281.1	42.2
20°-30°	152.4	22.9
30°-40°	48.9	7.3
40°-50°	16.7	2.5
50°-60°	5.8	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.5
80°-90°	0.9	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°	586.5	88.0
0°-40°	635.4	95.4
0°-60°	657.9	98.8
0°-90°	666.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1696	1686	1683	1700	1699	153
15°	1033	1041	1039	1044	1036	280
25°	312	327	335	312	297	150
35°	70	73	77	70	65	47
45°	21	21	21	21	20	16
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283488

CATALOG NUMBER: LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1779.0	1779.0	1779.0	1779.0	1779.0
1°	1776.0	1763.3	1761.4	1777.8	1774.1
2°	1761.8	1749.8	1747.9	1764.4	1761.0
3°	1746.1	1735.2	1731.5	1748.7	1746.4
4°	1725.1	1715.1	1711.7	1728.9	1727.0
5°	1696.0	1685.5	1683.3	1700.1	1698.6
6°	1660.1	1651.5	1647.4	1664.2	1661.2
7°	1615.3	1607.4	1602.9	1615.3	1616.8
8°	1557.0	1553.2	1548.0	1560.3	1560.3
9°	1494.9	1491.6	1486.0	1497.2	1497.2
10°	1428.4	1426.2	1419.4	1429.9	1429.9
11°	1355.5	1354.4	1349.5	1358.1	1358.1
12°	1278.9	1281.5	1277.0	1284.5	1281.9
13°	1202.3	1201.2	1201.5	1207.2	1203.0
14°	1115.6	1122.3	1123.4	1126.8	1120.4
15°	1032.6	1041.2	1039.3	1044.2	1036.0
16°	947.8	957.5	957.1	958.2	950.4
17°	868.6	874.2	874.5	873.4	863.7
18°	784.1	791.9	791.9	790.1	778.5
19°	701.5	707.5	711.6	707.5	694.0
20°	627.1	631.2	638.7	628.2	613.3
21°	555.7	559.5	565.8	553.5	537.1
22°	487.3	492.2	498.2	484.0	466.8
23°	423.4	434.6	436.9	417.5	402.9
24°	364.8	377.5	381.2	361.4	346.1
25°	312.4	326.6	335.2	312.1	296.7
26°	267.2	281.0	291.5	268.3	253.8
27°	227.6	242.2	253.0	231.3	217.5
28°	193.6	207.8	219.0	198.8	185.7
29°	168.2	176.4	187.6	170.8	158.8
30°	143.1	152.1	164.1	146.9	136.4
32.5°	98.3	103.1	112.5	102.0	93.8
35°	69.9	72.9	77.4	70.3	65.4
37.5°	49.7	51.2	53.8	49.7	47.1
40°	36.6	37.4	38.5	36.3	34.8
42.5°	27.3	27.7	27.7	26.9	26.2
45°	20.6	20.9	20.6	20.6	19.8
47.5°	14.9	16.1	15.7	15.7	14.6
50°	9.7	12.0	12.0	11.6	9.7
52.5°	6.0	8.2	9.3	8.2	6.4
55°	4.5	5.6	7.1	5.6	4.9
57.5°	4.5	4.5	5.2	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



TEST NUMBER: P283488

CATALOG NUMBER: LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MB

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.4	3.7	3.4
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







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







62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)