

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: P283613

Luminaire Tested: **LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283613
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: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 625.2 lumens
Efficiency: N/A
Efficacy: 62.5 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

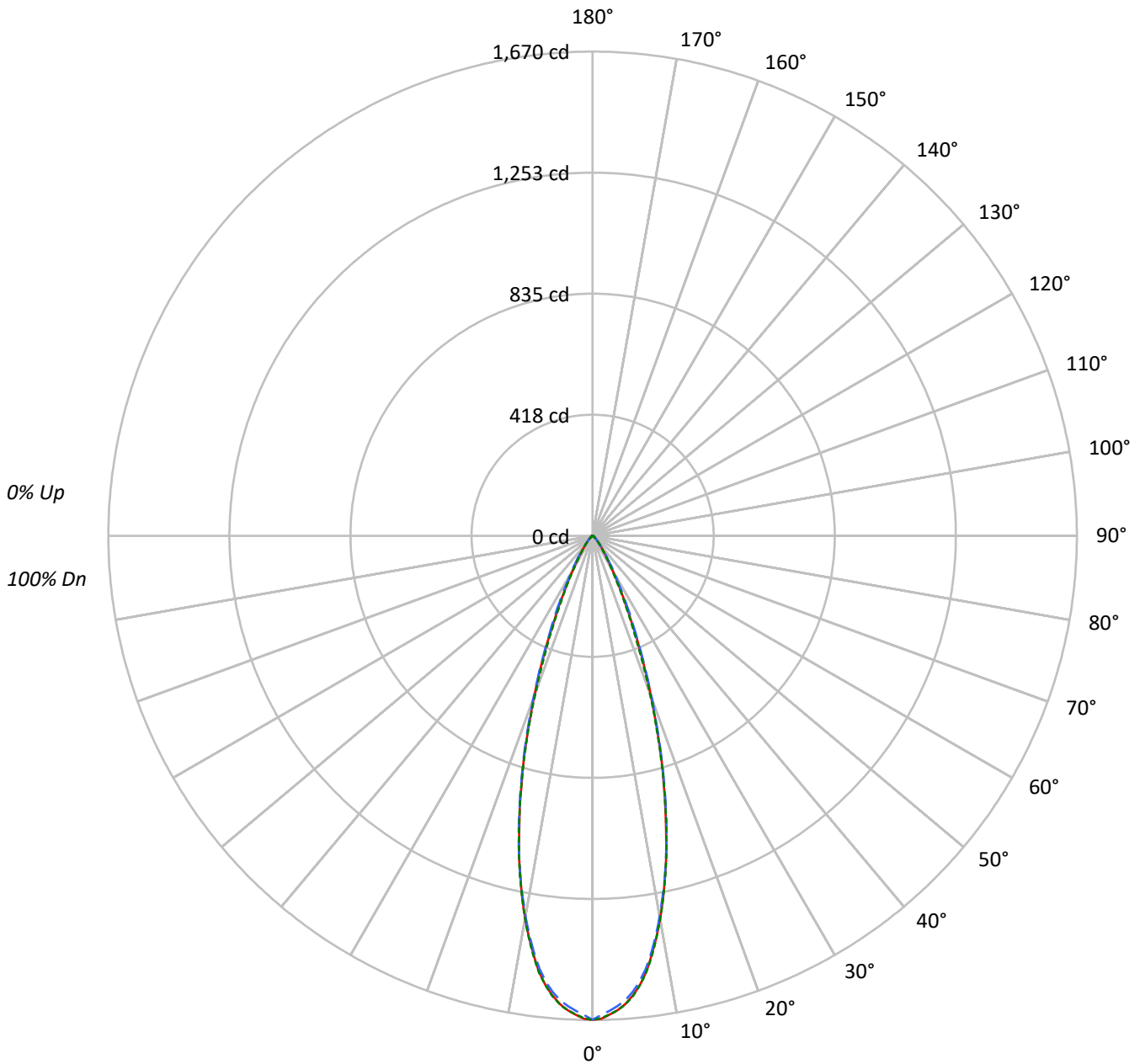
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283613

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283613

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MW

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°	823668	823668	823668
5°	788234	782341	789472
10°	671554	667346	672255
15°	494983	498201	496566
20°	308977	314700	302204
25°	159608	171257	151606
30°	76509	87732	72920
35°	39510	43726	36980
40°	22155	23250	20996
45°	13466	13466	12978
50°	6985	8596	6985
55°	3613	5763	3957
60°	4144	4144	4144
65°	4553	4553	4553
70°	5626	5049	5626
75°	5337	5337	5337
80°	5114	5114	5114
85°	3962	3962	3962



TEST NUMBER: P283613

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	23.0
10°-20°	263.8	42.2
20°-30°	143.0	22.9
30°-40°	45.9	7.3
40°-50°	15.7	2.5
50°-60°	5.5	0.9
60°-70°	4.0	0.6
70°-80°	2.9	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°	550.4	88.0
0°-40°	596.3	95.4
0°-60°	617.4	98.8
0°-90°	625.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1592	1582	1580	1596	1594	144
15°	969	977	975	980	972	263
25°	293	306	315	293	278	141
35°	66	68	73	66	61	44
45°	19	20	19	19	19	15
55°	4	5	7	5	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: P283613

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.5	1669.5	1669.5	1669.5	1669.5
1°	1666.7	1654.8	1653.0	1668.4	1664.9
2°	1653.4	1642.1	1640.4	1655.8	1652.7
3°	1638.6	1628.5	1625.0	1641.1	1639.0
4°	1619.0	1609.5	1606.4	1622.5	1620.7
5°	1591.6	1581.8	1579.7	1595.5	1594.1
6°	1558.0	1549.9	1546.0	1561.8	1559.0
7°	1515.9	1508.5	1504.3	1515.9	1517.3
8°	1461.2	1457.7	1452.7	1464.3	1464.3
9°	1402.9	1399.8	1394.5	1405.0	1405.0
10°	1340.5	1338.4	1332.1	1341.9	1341.9
11°	1272.1	1271.1	1266.5	1274.6	1274.6
12°	1200.2	1202.7	1198.5	1205.5	1203.0
13°	1128.3	1127.3	1127.6	1132.9	1129.0
14°	1046.9	1053.3	1054.3	1057.5	1051.5
15°	969.1	977.1	975.4	980.0	972.2
16°	889.5	898.6	898.2	899.3	891.9
17°	815.1	820.4	820.7	819.7	810.5
18°	735.8	743.2	743.2	741.5	730.6
19°	658.3	663.9	667.8	663.9	651.3
20°	588.5	592.4	599.4	589.6	575.6
21°	521.5	525.0	531.0	519.4	504.0
22°	457.4	461.9	467.5	454.2	438.1
23°	397.4	407.9	410.0	391.8	378.1
24°	342.3	354.2	357.7	339.2	324.8
25°	293.2	306.5	314.6	292.9	278.5
26°	250.8	263.8	273.6	251.8	238.1
27°	213.6	227.3	237.4	217.1	204.1
28°	181.7	195.0	205.5	186.6	174.3
29°	157.8	165.5	176.1	160.3	149.1
30°	134.3	142.7	154.0	137.8	128.0
32.5°	92.2	96.8	105.6	95.8	88.0
35°	65.6	68.4	72.6	65.9	61.4
37.5°	46.6	48.1	50.5	46.6	44.2
40°	34.4	35.1	36.1	34.0	32.6
42.5°	25.6	26.0	26.0	25.3	24.6
45°	19.3	19.6	19.3	19.3	18.6
47.5°	14.0	15.1	14.7	14.7	13.7
50°	9.1	11.2	11.2	10.9	9.1
52.5°	5.6	7.7	8.8	7.7	6.0
55°	4.2	5.3	6.7	5.3	4.6
57.5°	4.2	4.2	4.9	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2



TEST NUMBER: P283613

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.2	3.5	3.2
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.4	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°	4.2	4.2	4.2	4.2	4.2
65°	3.9	4.2	3.9	4.2	3.9



(END OF REPORT)