

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: P283614

Luminaire Tested: **LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283614
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 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: 602.1 lumens
Efficiency: N/A
Efficacy: 60.2 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

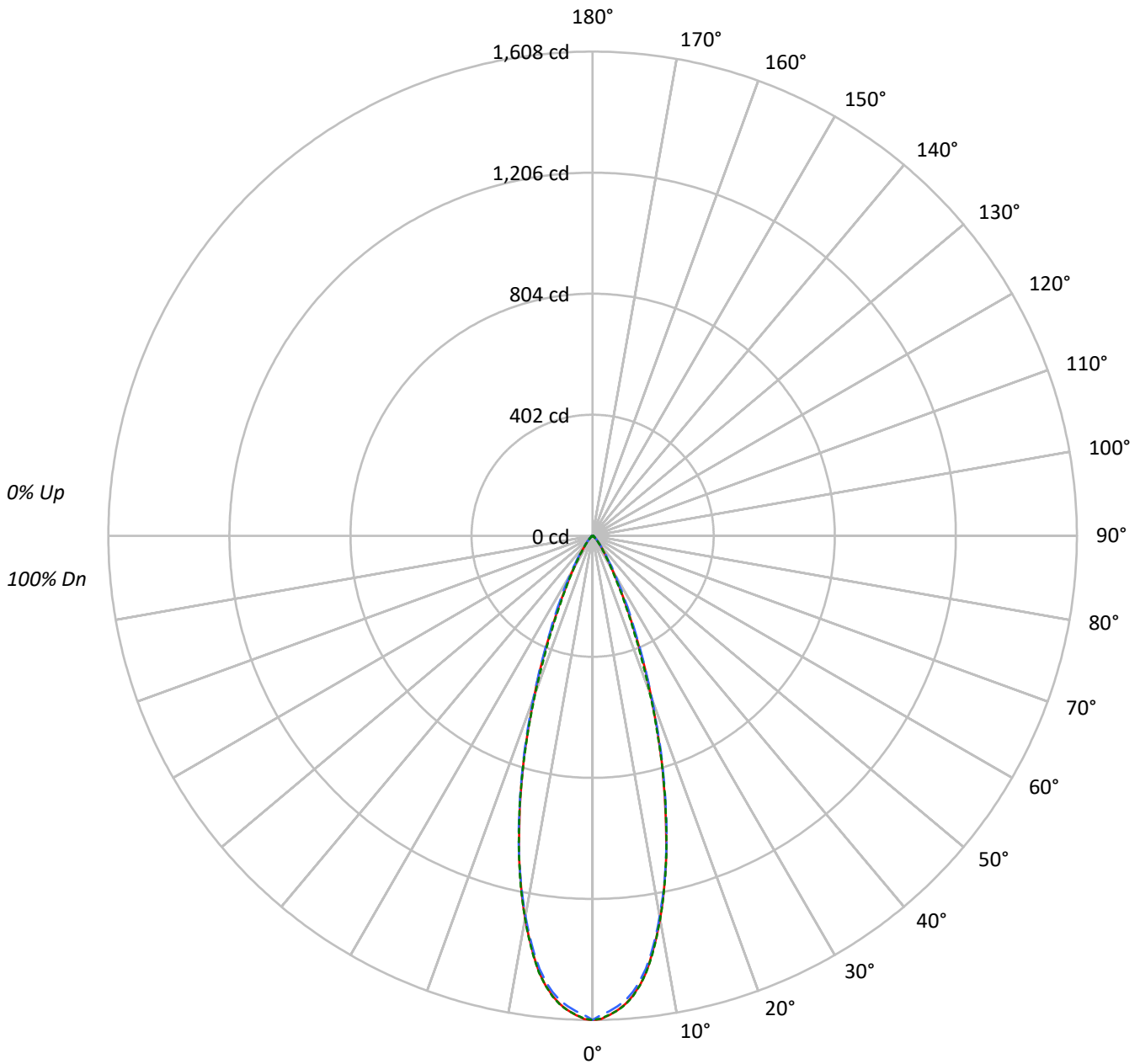
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283614

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P283614

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 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°	793326	793326	793326
5°	759213	753517	760352
10°	646806	642748	647457
15°	476749	479813	478281
20°	297584	303097	291021
25°	153729	164942	145999
30°	73717	84484	70242
35°	38064	42100	35595
40°	21318	22413	20223
45°	12978	12978	12489
50°	6754	8289	6754
55°	3527	5505	3785
60°	4046	4046	4046
65°	4319	4319	4319
70°	5337	4904	5337
75°	5147	5147	5147
80°	4830	4830	4830
85°	3962	3962	3962



TEST NUMBER: P283614

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	23.0
10°-20°	254.0	42.2
20°-30°	137.7	22.9
30°-40°	44.2	7.3
40°-50°	15.1	2.5
50°-60°	5.3	0.9
60°-70°	3.9	0.6
70°-80°	2.8	0.5
80°-90°	0.8	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°	530.1	88.0
0°-40°	574.3	95.4
0°-60°	594.7	98.8
0°-90°	602.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1533	1524	1522	1537	1535	139
15°	933	941	939	944	936	253
25°	282	295	303	282	268	135
35°	63	66	70	64	59	43
45°	19	19	19	19	18	15
55°	4	5	6	5	4	4
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: P283614

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.0	1608.0	1608.0	1608.0	1608.0
1°	1605.3	1593.8	1592.1	1606.9	1603.6
2°	1592.4	1581.6	1579.9	1594.8	1591.7
3°	1578.2	1568.4	1565.1	1580.6	1578.6
4°	1559.3	1550.2	1547.2	1562.7	1561.0
5°	1533.0	1523.5	1521.5	1536.7	1535.3
6°	1500.5	1492.8	1489.0	1504.2	1501.5
7°	1460.0	1452.9	1448.8	1460.0	1461.3
8°	1407.3	1403.9	1399.2	1410.3	1410.3
9°	1351.2	1348.2	1343.1	1353.2	1353.2
10°	1291.1	1289.1	1283.0	1292.4	1292.4
11°	1225.2	1224.2	1219.8	1227.6	1227.6
12°	1156.0	1158.3	1154.3	1161.0	1158.7
13°	1086.7	1085.7	1086.0	1091.1	1087.4
14°	1008.4	1014.4	1015.4	1018.5	1012.7
15°	933.4	941.1	939.4	943.8	936.4
16°	856.7	865.5	865.1	866.1	859.0
17°	785.1	790.1	790.5	789.5	780.7
18°	708.7	715.8	715.8	714.1	703.6
19°	634.1	639.5	643.2	639.5	627.3
20°	566.8	570.6	577.3	567.9	554.3
21°	502.3	505.7	511.4	500.3	485.4
22°	440.5	444.9	450.3	437.5	421.9
23°	382.7	392.9	394.9	377.3	364.2
24°	329.7	341.2	344.6	326.7	312.8
25°	282.4	295.2	303.0	282.1	268.2
26°	241.5	254.0	263.5	242.5	229.4
27°	205.7	218.9	228.7	209.1	196.6
28°	175.0	187.8	198.0	179.7	167.9
29°	152.0	159.4	169.6	154.4	143.6
30°	129.4	137.5	148.3	132.8	123.3
32.5°	88.8	93.2	101.7	92.2	84.8
35°	63.2	65.9	69.9	63.5	59.1
37.5°	44.9	46.3	48.6	44.9	42.6
40°	33.1	33.8	34.8	32.8	31.4
42.5°	24.7	25.0	25.0	24.3	23.6
45°	18.6	18.9	18.6	18.6	17.9
47.5°	13.5	14.5	14.2	14.2	13.2
50°	8.8	10.8	10.8	10.5	8.8
52.5°	5.4	7.4	8.4	7.4	5.7
55°	4.1	5.1	6.4	5.1	4.4
57.5°	4.1	4.1	4.7	4.1	4.1
60°	4.1	4.1	4.1	4.1	4.1



TEST NUMBER: P283614

CATALOG NUMBER: LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.4	3.7	3.7
72.5°	3.4	3.4	3.0	3.4	3.0
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.0	1.0	1.0	1.4	1.0
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.7	4.1	3.7	4.1	3.7



(END OF REPORT)