

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: P283596

Luminaire Tested: **LDA2B109035D010 EU2B10FL409035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283596
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: LDA2B109035D010 EU2B10FL409035 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: 724.8 lumens
Efficiency: N/A
Efficacy: 72.5 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

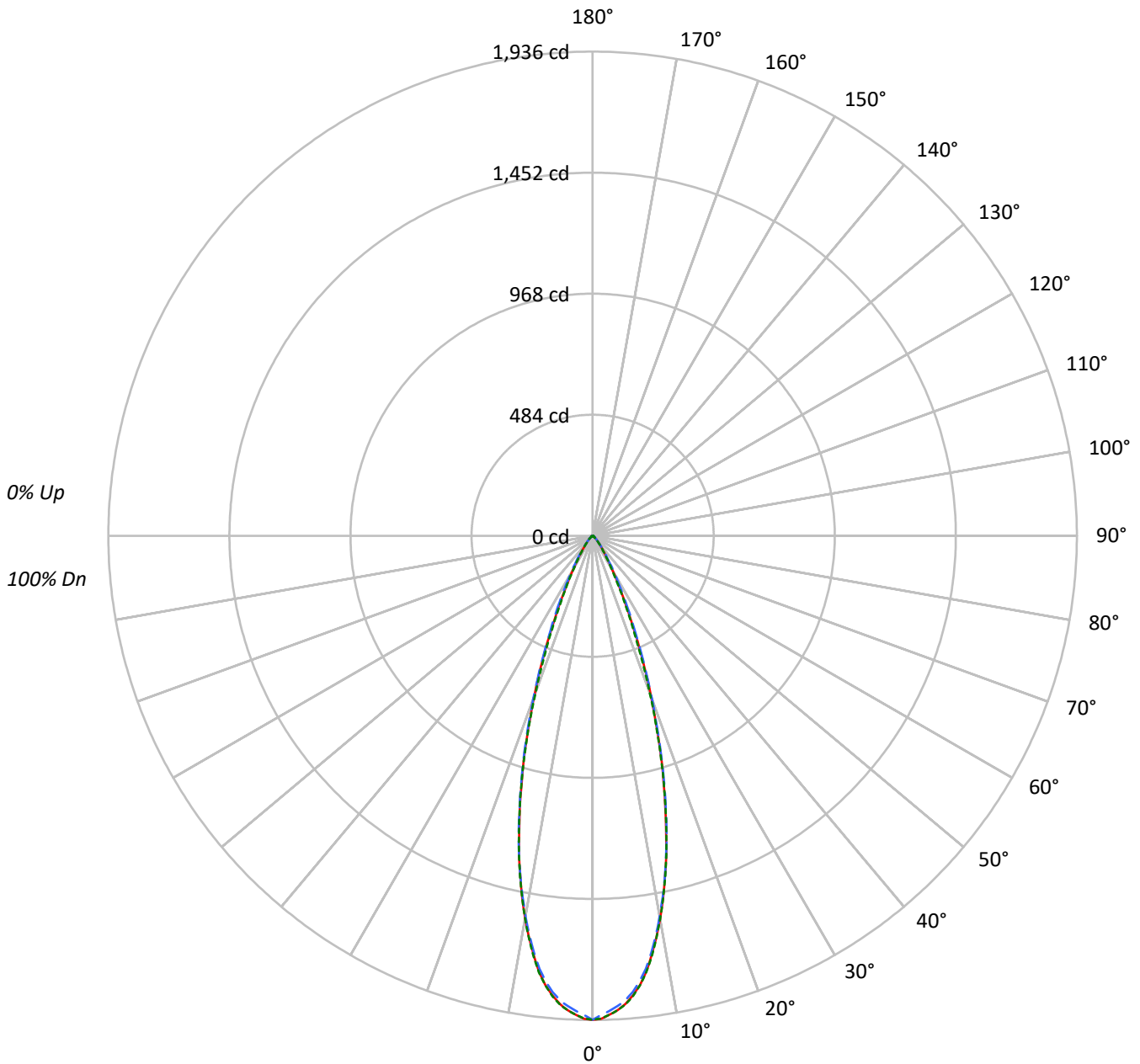
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	954951	954951	954951
5°	913878	907044	915314
10°	778612	773702	779413
15°	573845	577625	575735
20°	358224	364840	350349
25°	185029	198584	175775
30°	88700	101689	84541
35°	45774	50712	42883
40°	25697	26985	24345
45°	15629	15629	15071
50°	8136	9978	8136
55°	4215	6623	4559
60°	4835	4835	4835
65°	5253	5253	5253
70°	6491	5914	6491
75°	6290	6290	6290
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	23.0
10°-20°	305.8	42.2
20°-30°	165.8	22.9
30°-40°	53.2	7.3
40°-50°	18.2	2.5
50°-60°	6.4	0.9
60°-70°	4.6	0.6
70°-80°	3.4	0.5
80°-90°	1.0	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°	638.1	88.0
0°-40°	691.3	95.4
0°-60°	715.8	98.8
0°-90°	724.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1845	1834	1832	1850	1848	167
15°	1124	1133	1131	1136	1127	305
25°	340	355	365	340	323	163
35°	76	79	84	76	71	51
45°	22	23	22	22	22	18
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1935.6	1935.6	1935.6	1935.6	1935.6
1°	1932.3	1918.5	1916.5	1934.4	1930.3
2°	1916.9	1903.9	1901.8	1919.7	1916.1
3°	1899.8	1888.0	1883.9	1902.7	1900.2
4°	1877.0	1866.1	1862.4	1881.1	1879.1
5°	1845.3	1833.9	1831.5	1849.8	1848.2
6°	1806.3	1796.9	1792.5	1810.8	1807.5
7°	1757.5	1748.9	1744.1	1757.5	1759.1
8°	1694.0	1690.0	1684.3	1697.7	1697.7
9°	1626.5	1622.9	1616.8	1629.0	1629.0
10°	1554.2	1551.7	1544.4	1555.8	1555.8
11°	1474.9	1473.7	1468.4	1477.7	1477.7
12°	1391.5	1394.4	1389.5	1397.6	1394.8
13°	1308.2	1306.9	1307.3	1313.4	1309.0
14°	1213.8	1221.1	1222.3	1226.0	1219.1
15°	1123.5	1132.9	1130.9	1136.1	1127.2
16°	1031.2	1041.8	1041.4	1042.6	1034.1
17°	945.0	951.1	951.5	950.3	939.7
18°	853.1	861.7	861.7	859.6	847.0
19°	763.3	769.8	774.2	769.8	755.1
20°	682.3	686.8	694.9	683.6	667.3
21°	604.7	608.7	615.6	602.2	584.3
22°	530.3	535.5	542.0	526.6	507.9
23°	460.7	472.9	475.4	454.2	438.4
24°	396.9	410.7	414.8	393.2	376.5
25°	339.9	355.4	364.8	339.5	322.9
26°	290.7	305.8	317.2	292.0	276.1
27°	247.6	263.5	275.3	251.7	236.7
28°	210.6	226.1	238.3	216.3	202.1
29°	183.0	191.9	204.1	185.8	172.8
30°	155.7	165.5	178.5	159.8	148.4
32.5°	106.9	112.2	122.4	111.0	102.1
35°	76.0	79.3	84.2	76.4	71.2
37.5°	54.1	55.7	58.6	54.1	51.2
40°	39.9	40.7	41.9	39.4	37.8
42.5°	29.7	30.1	30.1	29.3	28.5
45°	22.4	22.8	22.4	22.4	21.6
47.5°	16.3	17.5	17.1	17.1	15.9
50°	10.6	13.0	13.0	12.6	10.6
52.5°	6.5	8.9	10.2	8.9	6.9
55°	4.9	6.1	7.7	6.1	5.3
57.5°	4.9	4.9	5.7	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.1	4.5	4.5
72.5°	4.1	4.1	3.7	4.1	3.7
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.5	4.9	4.5	4.9	4.5



(END OF REPORT)