

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: P283550

Luminaire Tested: **LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283550
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: LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 952.1 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

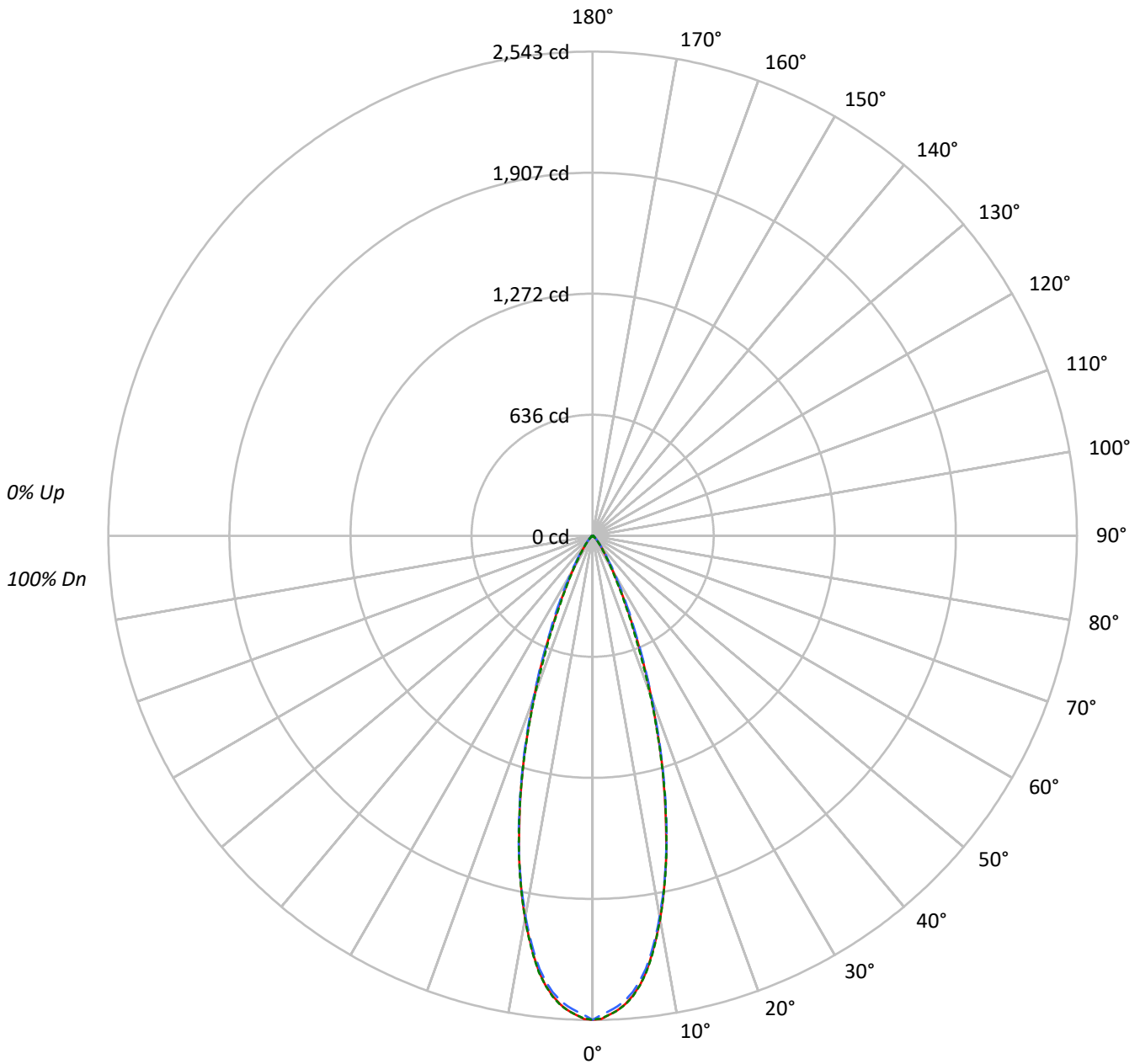
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1254422	1254422	1254422
5°	1200477	1191513	1202359
10°	1022786	1016323	1023838
15°	753839	758742	756291
20°	470580	479295	460237
25°	243113	260805	230865
30°	116558	133591	111089
35°	60168	66613	56314
40°	33683	35422	32009
45°	20513	20513	19745
50°	10669	13125	10669
55°	5505	8688	5935
60°	6315	6315	6315
65°	6888	6888	6888
70°	8511	7645	8511
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	23.0
10°-20°	401.7	42.2
20°-30°	217.8	22.9
30°-40°	69.9	7.3
40°-50°	23.8	2.5
50°-60°	8.3	0.9
60°-70°	6.1	0.6
70°-80°	4.4	0.5
80°-90°	1.3	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°	838.2	88.0
0°-40°	908.1	95.4
0°-60°	940.3	98.8
0°-90°	952.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	952.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2424	2409	2406	2430	2428	219
15°	1476	1488	1486	1492	1481	400
25°	447	467	479	446	424	214
35°	100	104	111	100	94	67
45°	29	30	29	29	28	23
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	5
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°	2542.6	2542.6	2542.6	2542.6	2542.6
1°	2538.3	2520.2	2517.5	2541.0	2535.7
2°	2518.0	2500.9	2498.3	2521.8	2517.0
3°	2495.6	2480.1	2474.8	2499.3	2496.1
4°	2465.7	2451.3	2446.4	2471.0	2468.3
5°	2424.0	2409.1	2405.9	2429.9	2427.8
6°	2372.7	2360.4	2354.6	2378.6	2374.3
7°	2308.6	2297.4	2291.0	2308.6	2310.8
8°	2225.3	2220.0	2212.5	2230.1	2230.1
9°	2136.6	2131.8	2123.8	2139.8	2139.8
10°	2041.6	2038.3	2028.7	2043.7	2043.7
11°	1937.4	1935.8	1928.8	1941.1	1941.1
12°	1827.9	1831.6	1825.2	1835.9	1832.2
13°	1718.4	1716.8	1717.3	1725.3	1719.5
14°	1594.5	1604.1	1605.7	1610.5	1601.4
15°	1475.9	1488.2	1485.5	1492.4	1480.7
16°	1354.6	1368.5	1368.0	1369.6	1358.4
17°	1241.4	1249.4	1249.9	1248.3	1234.4
18°	1120.7	1131.9	1131.9	1129.2	1112.7
19°	1002.6	1011.2	1017.0	1011.2	991.9
20°	896.3	902.2	912.9	897.9	876.6
21°	794.3	799.6	808.7	791.1	767.6
22°	696.5	703.5	712.0	691.7	667.2
23°	605.2	621.2	624.4	596.7	575.8
24°	521.3	539.5	544.8	516.5	494.6
25°	446.6	466.9	479.1	446.0	424.1
26°	381.9	401.7	416.6	383.5	362.7
27°	325.3	346.1	361.6	330.6	310.9
28°	276.7	297.0	313.0	284.2	265.5
29°	240.4	252.1	268.1	244.1	227.0
30°	204.6	217.4	234.5	209.9	195.0
32.5°	140.5	147.4	160.8	145.8	134.1
35°	99.9	104.2	110.6	100.4	93.5
37.5°	71.0	73.2	76.9	71.0	67.3
40°	52.3	53.4	55.0	51.8	49.7
42.5°	39.0	39.5	39.5	38.5	37.4
45°	29.4	29.9	29.4	29.4	28.3
47.5°	21.4	23.0	22.4	22.4	20.8
50°	13.9	17.1	17.1	16.6	13.9
52.5°	8.5	11.8	13.4	11.8	9.1
55°	6.4	8.0	10.1	8.0	6.9
57.5°	6.4	6.4	7.5	6.4	6.4
60°	6.4	6.4	6.4	6.4	6.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.3	5.9	5.9
72.5°	5.3	5.3	4.8	5.3	4.8
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.9	6.4	5.9	6.4	5.9



(END OF REPORT)