

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: P283552

Luminaire Tested: **LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283552
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 941.4 lumens
Efficiency: N/A
Efficacy: 94.1 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

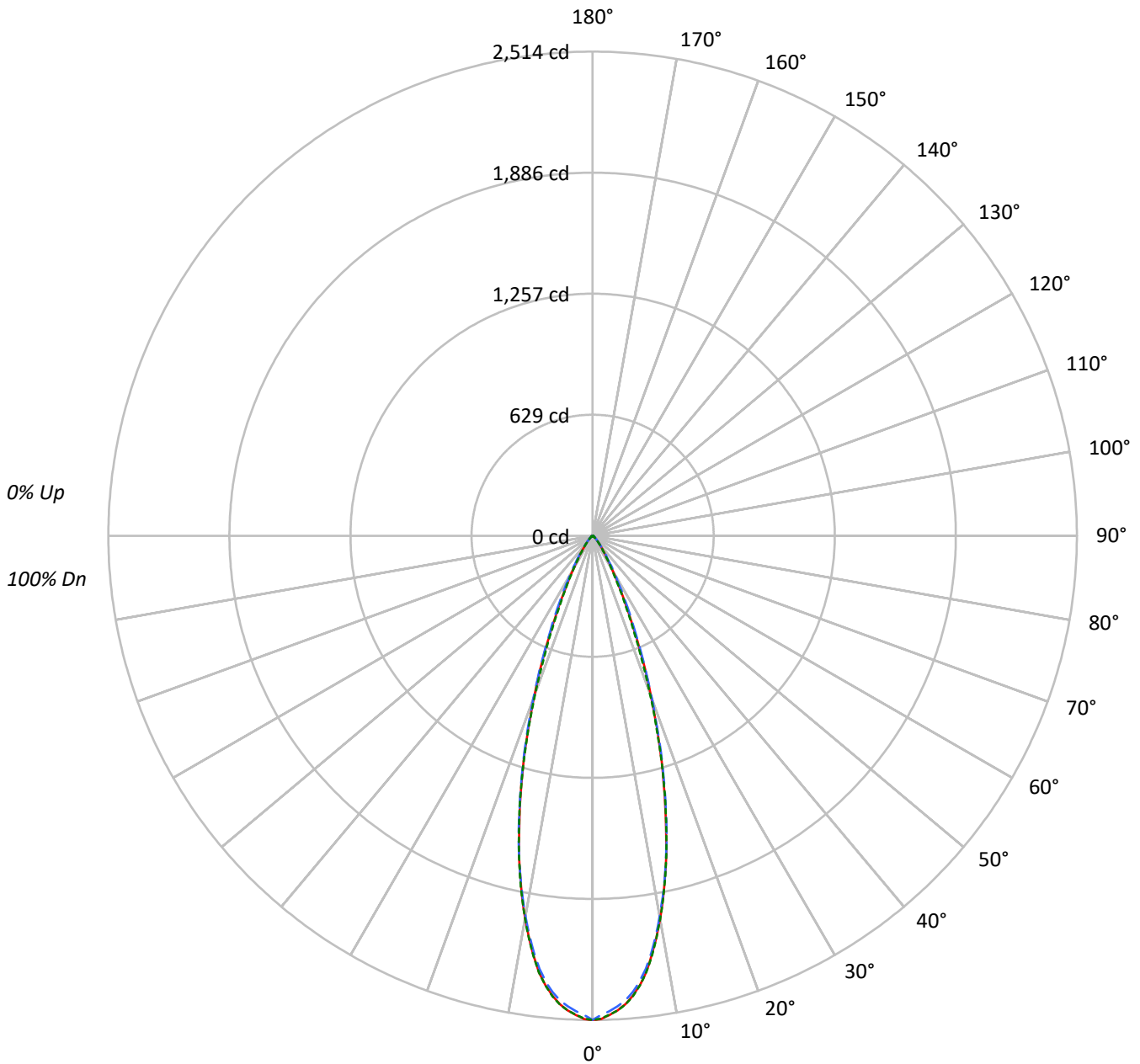
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283552

CATALOG NUMBER: LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283552

CATALOG NUMBER: LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MMS

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°	1240361	1240361	1240361
5°	1187006	1178092	1188839
10°	1011263	1004951	1012366
15°	745360	750213	747812
20°	465329	473887	455039
25°	240337	257920	228306
30°	115247	132110	109835
35°	59506	65830	55651
40°	33361	35036	31622
45°	20234	20234	19536
50°	10515	12971	10515
55°	5419	8602	5935
60°	6216	6216	6216
65°	6771	6771	6771
70°	8366	7645	8366
75°	8006	8006	8006
80°	7387	7387	7387
85°	6227	6227	6227



TEST NUMBER: P283552

CATALOG NUMBER: LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	23.0
10°-20°	397.2	42.2
20°-30°	215.3	22.9
30°-40°	69.1	7.3
40°-50°	23.6	2.5
50°-60°	8.2	0.9
60°-70°	6.0	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
<hr/>		
0°-30°	828.8	88.0
0°-40°	897.9	95.4
0°-60°	929.7	98.8
0°-90°	941.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2397	2382	2379	2403	2400	217
15°	1459	1472	1469	1476	1464	396
25°	442	462	474	441	419	212
35°	99	103	109	99	92	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	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283552

CATALOG NUMBER: LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2514.1	2514.1	2514.1	2514.1	2514.1
1°	2509.8	2491.9	2489.2	2512.5	2507.2
2°	2489.8	2472.9	2470.2	2493.5	2488.7
3°	2467.6	2452.3	2447.0	2471.3	2468.1
4°	2438.0	2423.7	2419.0	2443.3	2440.6
5°	2396.8	2382.0	2378.8	2402.6	2400.5
6°	2346.1	2334.0	2328.1	2351.9	2347.7
7°	2282.7	2271.6	2265.3	2282.7	2284.8
8°	2200.3	2195.0	2187.7	2205.1	2205.1
9°	2112.7	2107.9	2100.0	2115.8	2115.8
10°	2018.6	2015.5	2006.0	2020.8	2020.8
11°	1915.6	1914.1	1907.2	1919.3	1919.3
12°	1807.4	1811.1	1804.7	1815.3	1811.6
13°	1699.1	1697.5	1698.0	1706.0	1700.2
14°	1576.6	1586.1	1587.7	1592.4	1583.4
15°	1459.3	1471.5	1468.8	1475.7	1464.1
16°	1339.4	1353.2	1352.6	1354.2	1343.1
17°	1227.5	1235.4	1235.9	1234.3	1220.6
18°	1108.1	1119.2	1119.2	1116.5	1100.2
19°	991.4	999.8	1005.6	999.8	980.8
20°	886.3	892.1	902.6	887.8	866.7
21°	785.4	790.7	799.6	782.2	759.0
22°	688.7	695.6	704.0	684.0	659.7
23°	598.4	614.3	617.4	590.0	569.4
24°	515.5	533.4	538.7	510.7	489.1
25°	441.5	461.6	473.8	441.0	419.4
26°	377.6	397.2	412.0	379.2	358.6
27°	321.7	342.2	357.6	326.9	307.4
28°	273.6	293.7	309.5	281.0	262.5
29°	237.7	249.3	265.1	241.4	224.5
30°	202.3	215.0	231.9	207.6	192.8
32.5°	138.9	145.8	159.0	144.2	132.6
35°	98.8	103.0	109.3	99.3	92.4
37.5°	70.2	72.4	76.1	70.2	66.5
40°	51.8	52.8	54.4	51.2	49.1
42.5°	38.6	39.1	39.1	38.0	37.0
45°	29.0	29.6	29.0	29.0	28.0
47.5°	21.1	22.7	22.2	22.2	20.6
50°	13.7	16.9	16.9	16.4	13.7
52.5°	8.5	11.6	13.2	11.6	9.0
55°	6.3	7.9	10.0	7.9	6.9
57.5°	6.3	6.3	7.4	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3



TEST NUMBER: P283552

CATALOG NUMBER: LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.3	5.8	5.8
72.5°	5.3	5.3	4.8	5.3	4.8
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.6	2.6	2.6	2.6	2.6
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



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.8	6.3	5.8	6.3	5.8



(END OF REPORT)