

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: P283558

Luminaire Tested: **LDA2B108035D010 EU2B10FL408035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283558
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: LDA2B108035D010 EU2B10FL408035 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: 951.8 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

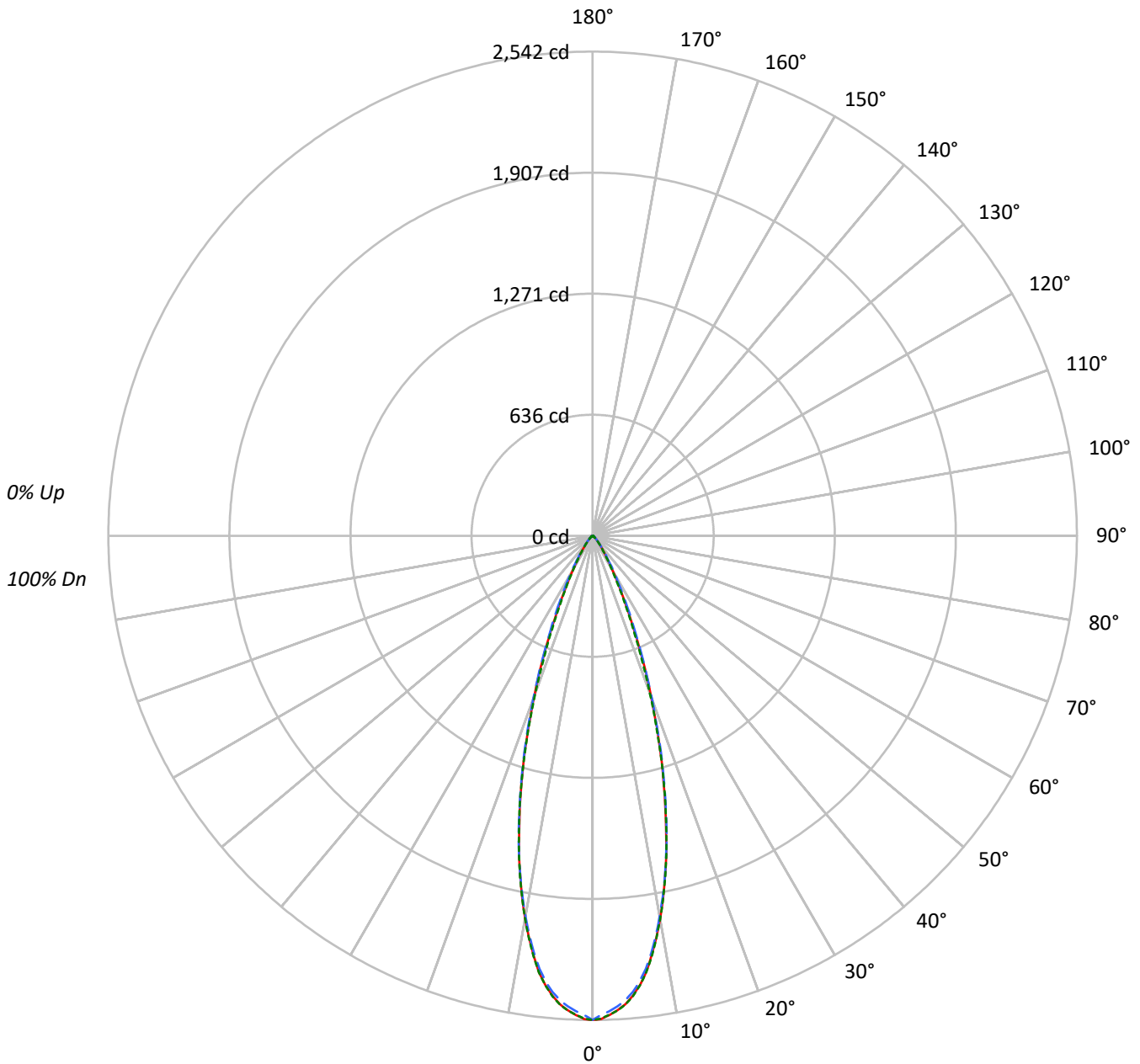
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1254126	1254126	1254126
5°	1200180	1191167	1202012
10°	1022485	1016073	1023587
15°	753635	758538	756086
20°	470475	479137	460079
25°	243004	260751	230811
30°	116501	133534	111032
35°	60168	66552	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°	218.6	23.0
10°-20°	401.6	42.2
20°-30°	217.7	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°	838.0	88.0
0°-40°	907.9	95.4
0°-60°	940.1	98.8
0°-90°	951.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2423	2408	2405	2429	2427	219
15°	1476	1488	1485	1492	1480	400
25°	446	467	479	446	424	214
35°	100	104	110	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°	2542.0	2542.0	2542.0	2542.0	2542.0
1°	2537.7	2519.5	2516.9	2540.4	2535.0
2°	2517.4	2500.3	2497.6	2521.1	2516.3
3°	2495.0	2479.5	2474.1	2498.7	2495.5
4°	2465.1	2450.6	2445.8	2470.4	2467.7
5°	2423.4	2408.4	2405.2	2429.3	2427.1
6°	2372.1	2359.9	2354.0	2378.0	2373.7
7°	2308.1	2296.8	2290.4	2308.1	2310.2
8°	2224.7	2219.4	2211.9	2229.6	2229.6
9°	2136.1	2131.3	2123.3	2139.3	2139.3
10°	2041.0	2037.8	2028.2	2043.2	2043.2
11°	1936.9	1935.3	1928.4	1940.6	1940.6
12°	1827.4	1831.2	1824.8	1835.4	1831.7
13°	1718.0	1716.4	1716.9	1724.9	1719.0
14°	1594.1	1603.7	1605.3	1610.1	1601.0
15°	1475.5	1487.8	1485.1	1492.1	1480.3
16°	1354.3	1368.2	1367.6	1369.2	1358.0
17°	1241.1	1249.1	1249.6	1248.0	1234.1
18°	1120.4	1131.6	1131.6	1128.9	1112.4
19°	1002.4	1010.9	1016.8	1010.9	991.7
20°	896.1	902.0	912.6	897.7	876.3
21°	794.1	799.4	808.5	790.9	767.4
22°	696.4	703.3	711.9	691.6	667.0
23°	605.0	621.1	624.3	596.5	575.7
24°	521.2	539.4	544.7	516.4	494.5
25°	446.4	466.7	479.0	445.9	424.0
26°	381.8	401.6	416.5	383.4	362.6
27°	325.2	346.0	361.5	330.6	310.8
28°	276.6	296.9	312.9	284.1	265.4
29°	240.3	252.1	268.1	244.0	227.0
30°	204.5	217.3	234.4	209.9	194.9
32.5°	140.4	147.4	160.7	145.8	134.0
35°	99.9	104.1	110.5	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	38.4	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	11.7	13.4	11.7	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)