

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: P283706

Luminaire Tested: **LDA2B15D2WD010 EU2B15FL40D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283706
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: LDA2B15D2WD010 EU2B15FL40D2W 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 947.8 lumens
Efficiency: N/A
Efficacy: 67.2 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

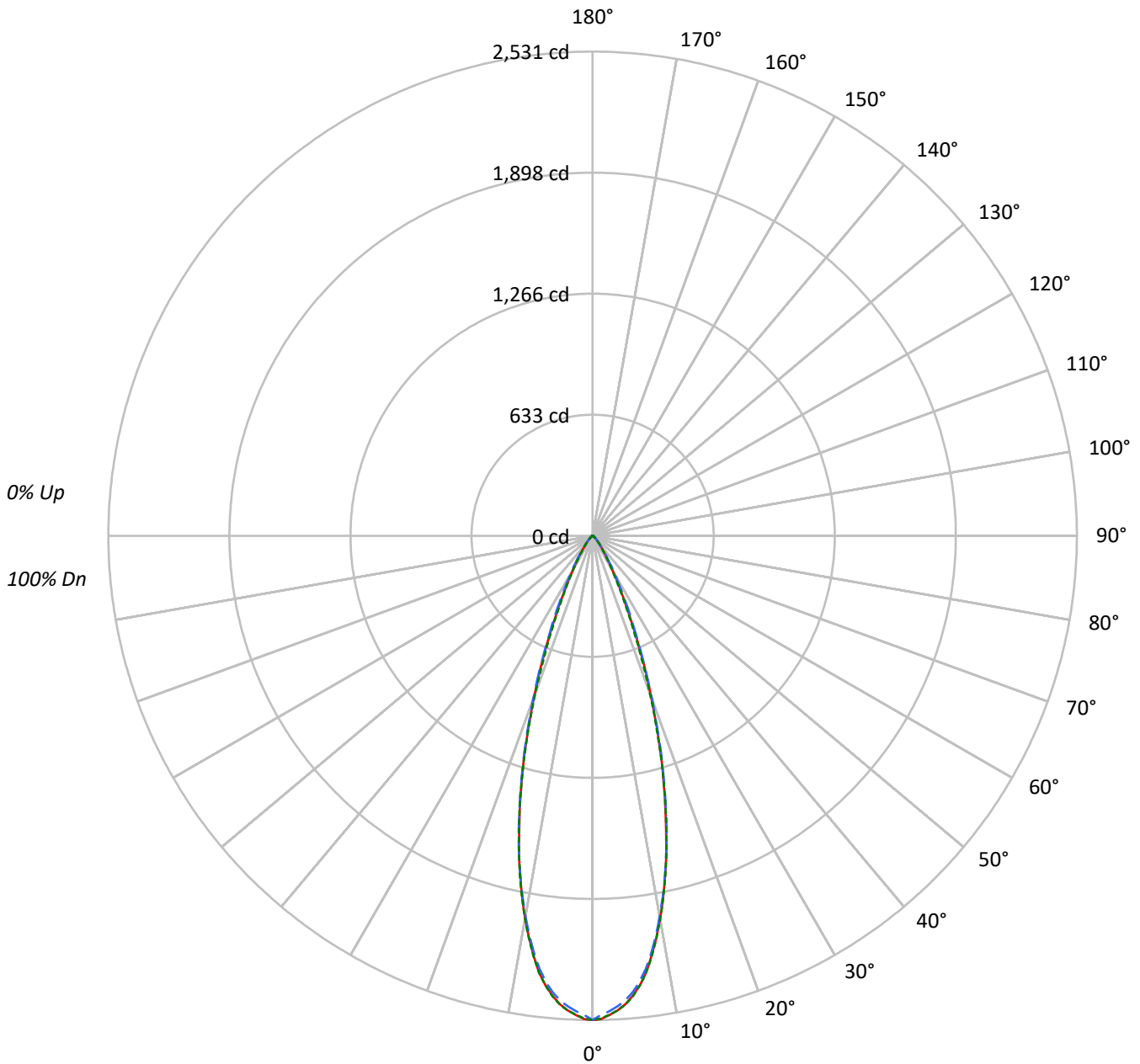
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1248748	1248748	1248748
5°	1195029	1186065	1196862
10°	1018127	1011714	1019179
15°	750417	755320	752869
20°	468479	477090	458137
25°	241970	259662	229831
30°	116045	132965	110576
35°	59867	66311	56073
40°	33554	35293	31880
45°	20373	20373	19676
50°	10592	13048	10592
55°	5505	8688	5935
60°	6315	6315	6315
65°	6771	6771	6771
70°	8366	7645	8366
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	23.0
10°-20°	399.9	42.2
20°-30°	216.8	22.9
30°-40°	69.6	7.3
40°-50°	23.7	2.5
50°-60°	8.3	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
0°-30°	834.4	88.0
0°-40°	904.0	95.4
0°-60°	936.0	98.8
0°-90°	947.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2531	2531	2531	2531	2531	
5°	2413	2398	2395	2419	2417	218
15°	1469	1481	1479	1486	1474	398
25°	444	465	477	444	422	213
35°	99	104	110	100	93	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2531.1	2531.1	2531.1	2531.1	2531.1
1°	2526.8	2508.7	2506.1	2529.5	2524.2
2°	2506.6	2489.6	2486.9	2510.3	2505.5
3°	2484.3	2468.9	2463.5	2488.0	2484.8
4°	2454.5	2440.1	2435.4	2459.8	2457.2
5°	2413.0	2398.1	2394.9	2418.9	2416.7
6°	2362.0	2349.7	2343.9	2367.8	2363.6
7°	2298.2	2287.0	2280.6	2298.2	2300.3
8°	2215.2	2209.9	2202.5	2220.0	2220.0
9°	2126.9	2122.2	2114.2	2130.1	2130.1
10°	2032.3	2029.1	2019.5	2034.4	2034.4
11°	1928.6	1927.0	1920.1	1932.3	1932.3
12°	1819.6	1823.3	1816.9	1827.6	1823.9
13°	1710.6	1709.0	1709.5	1717.5	1711.7
14°	1587.2	1596.8	1598.4	1603.2	1594.1
15°	1469.2	1481.4	1478.8	1485.7	1474.0
16°	1348.5	1362.3	1361.8	1363.4	1352.2
17°	1235.8	1243.7	1244.3	1242.7	1228.8
18°	1115.6	1126.8	1126.8	1124.1	1107.6
19°	998.1	1006.6	1012.4	1006.6	987.4
20°	892.3	898.1	908.7	893.9	872.6
21°	790.7	796.0	805.1	787.5	764.1
22°	693.4	700.3	708.8	688.6	664.1
23°	602.5	618.4	621.6	594.0	573.2
24°	519.0	537.1	542.4	514.2	492.4
25°	444.5	464.7	477.0	444.0	422.2
26°	380.2	399.9	414.8	381.8	361.0
27°	323.8	344.6	360.0	329.1	309.5
28°	275.4	295.6	311.6	282.9	264.3
29°	239.3	251.0	266.9	243.0	226.0
30°	203.7	216.4	233.4	209.0	194.1
32.5°	139.8	146.8	160.1	145.2	133.5
35°	99.4	103.7	110.1	100.0	93.1
37.5°	70.7	72.8	76.6	70.7	67.0
40°	52.1	53.2	54.8	51.6	49.5
42.5°	38.8	39.3	39.3	38.3	37.2
45°	29.2	29.8	29.2	29.2	28.2
47.5°	21.3	22.9	22.3	22.3	20.7
50°	13.8	17.0	17.0	16.5	13.8
52.5°	8.5	11.7	13.3	11.7	9.0
55°	6.4	8.0	10.1	8.0	6.9
57.5°	6.4	6.4	7.4	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°	5.8	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°	4.3	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°	5.8	6.4	5.8	6.4	5.8



(END OF REPORT)