

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: P283707

Luminaire Tested: **LDA2B15D2WD010 EU2B15FL40D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283707  
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 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 917.5 lumens  
Efficiency: N/A  
Efficacy: 65.1 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

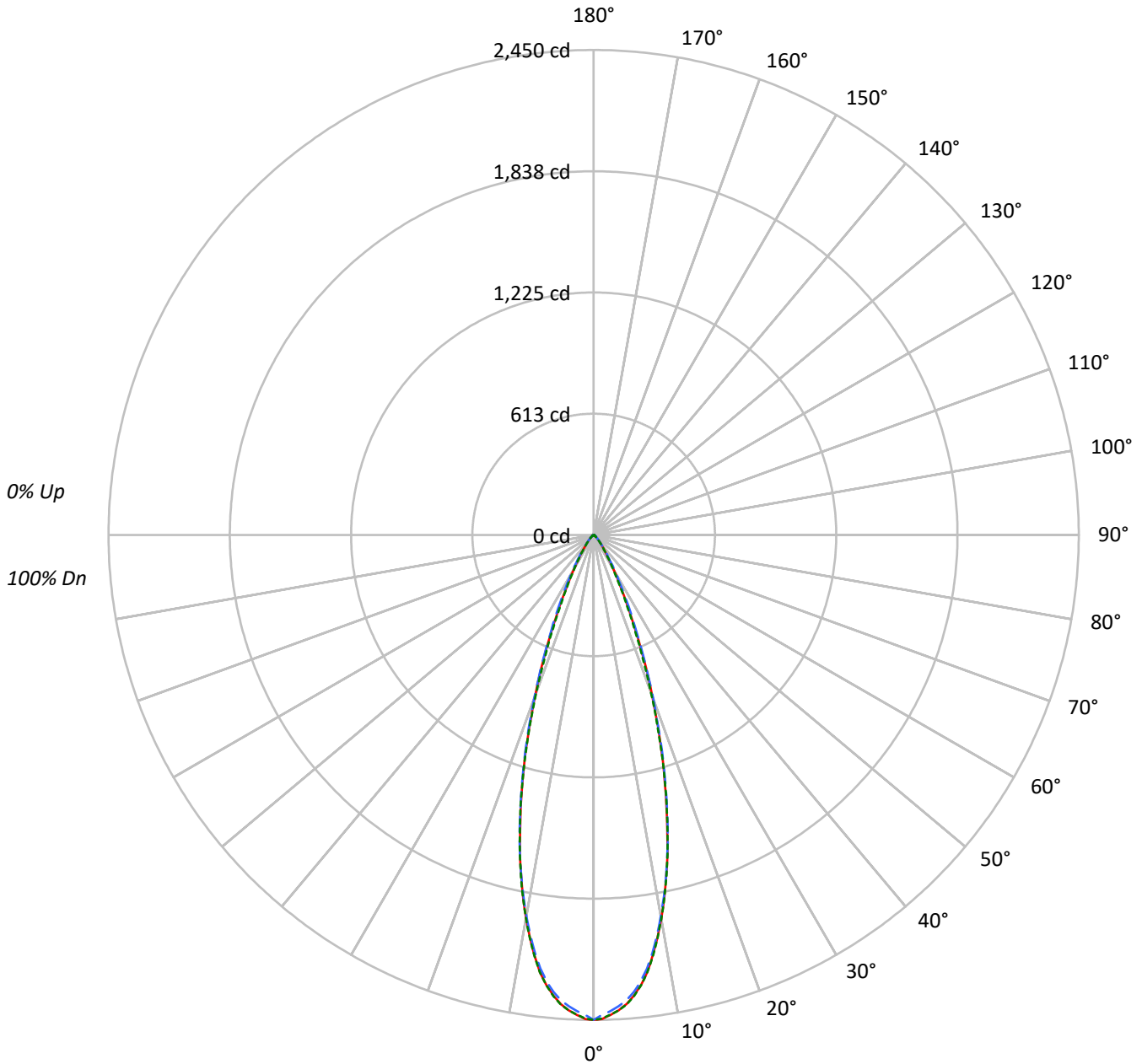
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1208786	1208786	1208786
5°	1156796	1148130	1158579
10°	985564	979352	986616
15°	726411	731161	728761
20°	453464	461864	443488
25°	234240	251333	222482
30°	112285	128749	107044
35°	58000	64143	54266
40°	32460	34134	30849
45°	19745	19745	19048
50°	10285	12664	10285
55°	5333	8429	5763
60°	6118	6118	6118
65°	6654	6654	6654
70°	8222	7357	8222
75°	7815	7815	7815
80°	7387	7387	7387
85°	5661	5661	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.7	23.0
10°-20°	387.1	42.2
20°-30°	209.9	22.9
30°-40°	67.4	7.3
40°-50°	23.0	2.5
50°-60°	8.1	0.9
60°-70°	5.9	0.6
70°-80°	4.3	0.5
80°-90°	1.2	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°	807.7	88.0
0°-40°	875.1	95.4
0°-60°	906.1	98.8
0°-90°	917.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	917.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2450	2450	2450	2450	2450	
5°	2336	2321	2318	2342	2339	211
15°	1422	1434	1432	1438	1427	386
25°	430	450	462	430	409	206
35°	96	100	106	97	90	65
45°	28	29	28	28	27	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°	2450.1	2450.1	2450.1	2450.1	2450.1
1°	2446.0	2428.5	2425.9	2448.6	2443.4
2°	2426.4	2410.0	2407.4	2430.0	2425.4
3°	2404.8	2389.9	2384.7	2408.4	2405.3
4°	2376.0	2362.1	2357.5	2381.1	2378.6
5°	2335.8	2321.4	2318.3	2341.5	2339.4
6°	2286.4	2274.6	2268.9	2292.1	2288.0
7°	2224.7	2213.8	2207.7	2224.7	2226.7
8°	2144.4	2139.2	2132.0	2149.0	2149.0
9°	2058.9	2054.3	2046.6	2062.0	2062.0
10°	1967.3	1964.2	1954.9	1969.4	1969.4
11°	1866.9	1865.4	1858.7	1870.5	1870.5
12°	1761.4	1765.0	1758.8	1769.1	1765.5
13°	1655.9	1654.3	1654.9	1662.6	1656.9
14°	1536.5	1545.7	1547.3	1551.9	1543.2
15°	1422.2	1434.0	1431.5	1438.2	1426.8
16°	1305.4	1318.7	1318.2	1319.8	1309.0
17°	1196.2	1204.0	1204.5	1202.9	1189.5
18°	1079.9	1090.7	1090.7	1088.1	1072.2
19°	966.1	974.4	980.0	974.4	955.9
20°	863.7	869.4	879.7	865.3	844.7
21°	765.4	770.5	779.3	762.3	739.7
22°	671.2	677.9	686.1	666.6	642.9
23°	583.2	598.6	601.7	575.0	554.9
24°	502.4	519.9	525.0	497.7	476.6
25°	430.3	449.9	461.7	429.8	408.7
26°	368.0	387.1	401.5	369.6	349.5
27°	313.5	333.5	348.5	318.6	299.6
28°	266.6	286.2	301.6	273.8	255.8
29°	231.6	243.0	258.4	235.2	218.8
30°	197.1	209.5	226.0	202.3	187.9
32.5°	135.4	142.1	154.9	140.5	129.2
35°	96.3	100.4	106.5	96.8	90.1
37.5°	68.5	70.5	74.1	68.5	64.9
40°	50.4	51.5	53.0	49.9	47.9
42.5°	37.6	38.1	38.1	37.1	36.0
45°	28.3	28.8	28.3	28.3	27.3
47.5°	20.6	22.1	21.6	21.6	20.1
50°	13.4	16.5	16.5	16.0	13.4
52.5°	8.2	11.3	12.9	11.3	8.8
55°	6.2	7.7	9.8	7.7	6.7
57.5°	6.2	6.2	7.2	6.2	6.2
60°	6.2	6.2	6.2	6.2	6.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.1	5.7	5.7
72.5°	5.1	5.1	4.6	5.1	4.6
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.5	1.5	1.5	2.1	1.5
85°	1.0	1.0	1.0	1.0	1.0
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°	6.2	6.2	6.2	6.2	6.2
65°	5.7	6.2	5.7	6.2	5.7



(END OF REPORT)