

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: P282303

Luminaire Tested: **LDA2B158040D010 EU2B15NFL258040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B158040D010 EU2B15NFL258040 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1374.6 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

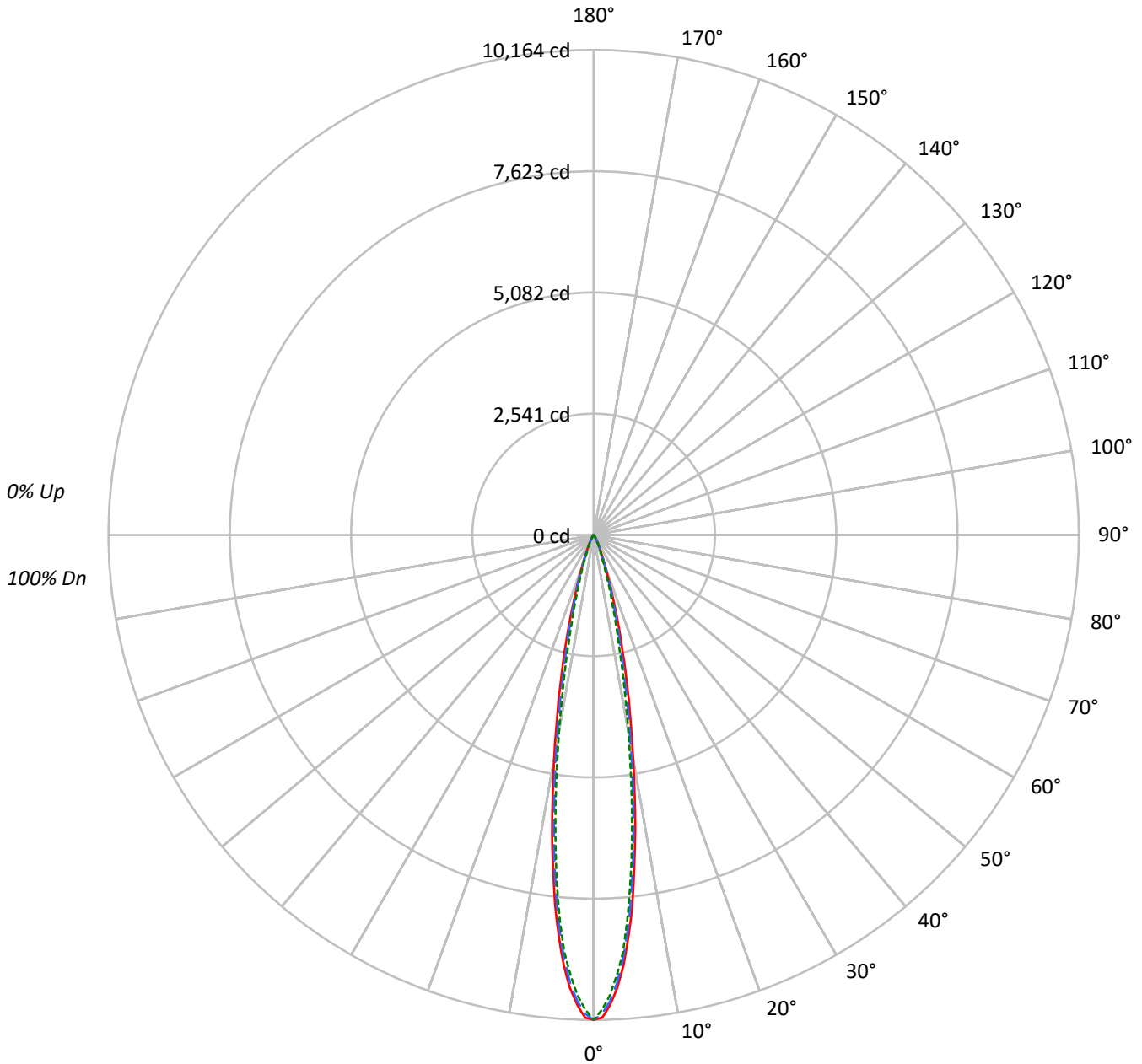
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5014381	5014381	5014381
5°	4172500	4095984	4013328
10°	2389940	2242704	2093064
15°	1063006	944099	791125
20°	385631	362582	287241
25°	148067	138269	119053
30°	63862	59418	52696
35°	30235	30235	24995
40°	15135	15650	12623
45°	8721	8233	7675
50°	5987	5449	5449
55°	4731	3355	4043
60°	3848	2368	3059
65°	2802	1868	2802
70°	2308	1154	2308
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.0	48.1
10°-20°	534.9	38.9
20°-30°	129.0	9.4
30°-40°	32.9	2.4
40°-50°	9.8	0.7
50°-60°	4.2	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
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°	1325.0	96.4
0°-40°	1357.9	98.8
0°-60°	1371.9	99.8
0°-90°	1374.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10164	10164	10164	10164	10164	
5°	8425	8348	8271	8198	8104	681
15°	2081	2032	1848	1665	1549	593
25°	272	274	254	230	219	140
35°	50	51	50	46	42	35
45°	12	12	12	11	11	11
55°	6	5	4	4	5	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10163.7	10163.7	10163.7	10163.7	10163.7
1°	10118.2	10047.7	10039.1	10083.0	9953.6
2°	9859.5	9809.4	9780.4	9806.2	9659.7
3°	9504.5	9455.9	9403.3	9404.1	9240.3
4°	9020.8	8982.4	8893.8	8867.2	8772.3
5°	8425.1	8347.5	8270.6	8198.5	8103.7
6°	7766.6	7666.3	7556.5	7449.1	7351.9
7°	6992.1	6925.5	6780.5	6633.9	6551.6
8°	6263.9	6156.5	5987.2	5803.8	5734.0
9°	5480.8	5404.0	5209.6	4996.4	4926.6
10°	4770.6	4690.7	4476.7	4239.2	4178.0
11°	4104.4	4029.1	3806.5	3557.2	3492.2
12°	3540.8	3434.1	3178.6	2962.3	2898.8
13°	2979.5	2906.6	2664.4	2450.4	2327.3
14°	2502.1	2441.8	2222.3	2034.1	1904.0
15°	2081.2	2031.8	1848.4	1664.9	1548.9
16°	1707.3	1676.7	1531.7	1354.5	1259.7
17°	1385.1	1356.9	1264.4	1101.3	1021.4
18°	1118.6	1114.7	1037.8	896.8	825.4
19°	920.3	918.7	848.2	729.8	671.0
20°	734.5	744.7	690.6	587.1	547.1
21°	598.9	604.4	561.3	482.9	446.8
22°	487.6	491.5	463.3	399.0	379.4
23°	399.8	402.1	378.6	330.8	313.5
24°	329.2	330.8	309.6	275.9	261.0
25°	272.0	273.6	254.0	230.5	218.7
26°	225.8	227.3	210.1	193.6	181.9
27°	187.3	190.5	173.2	163.0	150.5
28°	159.9	160.7	145.0	138.7	127.0
29°	130.9	135.6	122.3	116.8	108.2
30°	112.1	114.4	104.3	100.3	92.5
32.5°	74.5	76.0	71.3	68.2	61.9
35°	50.2	51.0	50.2	45.5	41.5
37.5°	34.5	34.5	35.3	29.8	28.2
40°	23.5	23.5	24.3	20.4	19.6
42.5°	17.2	17.2	16.5	14.1	14.1
45°	12.5	12.5	11.8	11.0	11.0
47.5°	10.2	9.4	8.6	8.6	8.6
50°	7.8	7.8	7.1	6.3	7.1
52.5°	6.3	6.3	5.5	5.5	5.5
55°	5.5	4.7	3.9	3.9	4.7
57.5°	3.9	3.9	3.1	3.1	3.9
60°	3.9	3.1	2.4	3.1	3.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.4	1.6	1.6	1.6	1.6
70°	1.6	1.6	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.1	2.4	2.4	2.4	2.4
65°	2.4	2.4	1.6	1.6	2.4



(END OF REPORT)