

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: P282740

Luminaire Tested: **LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282740  
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: LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 901.3 lumens  
Efficiency: N/A  
Efficacy: 63.9 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

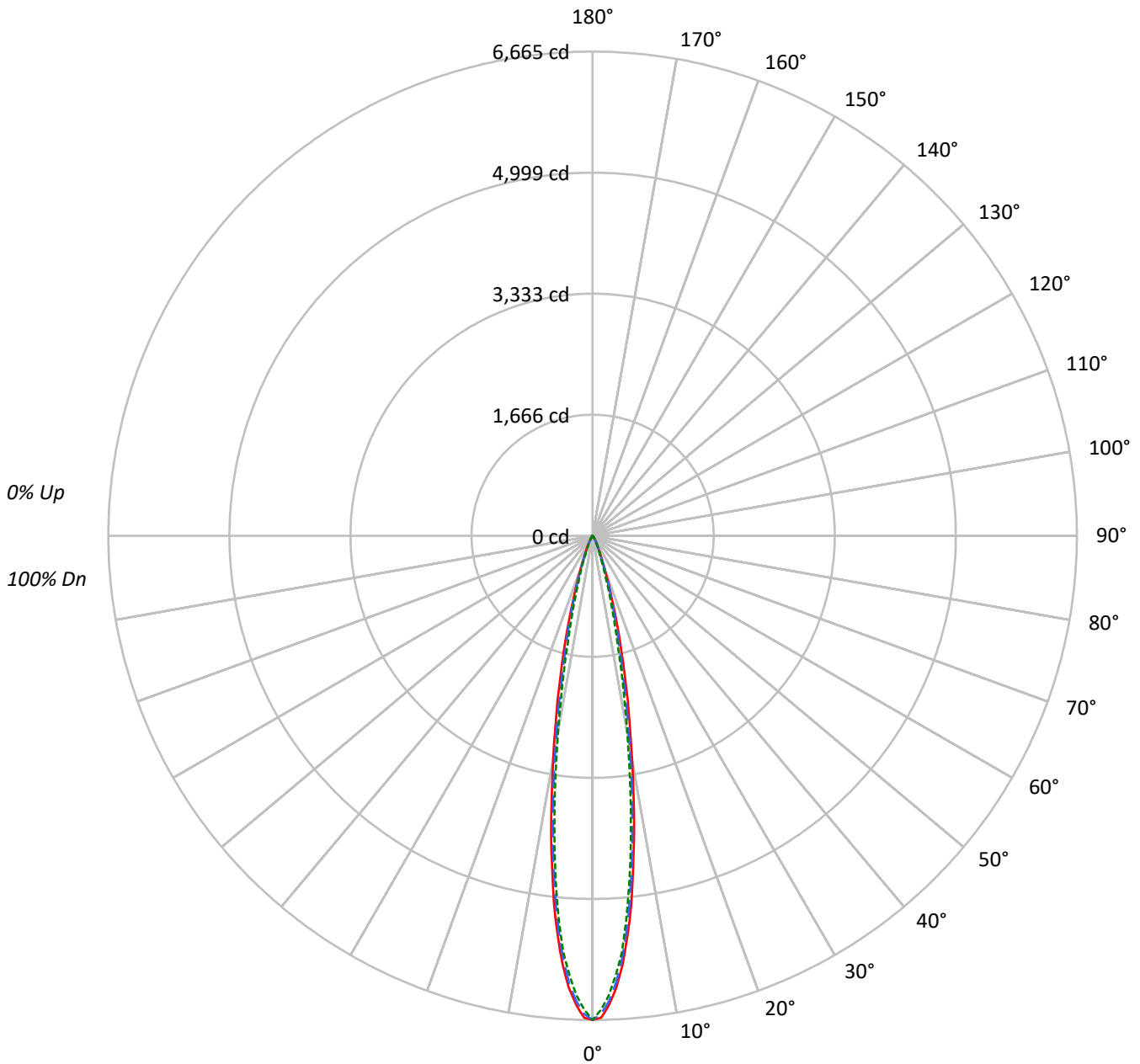
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

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

	0°	45°	90°
0°	3288158	3288158	3288158
5°	2736088	2685919	2631739
10°	1567193	1470655	1372515
15°	697042	619099	518785
20°	252852	237784	188379
25°	97115	90637	78062
30°	41872	38966	34580
35°	19815	19815	16382
40°	9918	10240	8308
45°	5721	5372	5024
50°	3914	3531	3531
55°	3097	2236	2666
60°	2565	1480	2072
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.5	48.1
10°-20°	350.8	38.9
20°-30°	84.6	9.4
30°-40°	21.6	2.4
40°-50°	6.4	0.7
50°-60°	2.8	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	868.9	96.4
0°-40°	890.4	98.8
0°-60°	899.6	99.8
0°-90°	901.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	901.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6665	6665	6665	6665	6665	
5°	5525	5474	5423	5376	5314	447
15°	1365	1332	1212	1092	1016	389
25°	178	179	166	151	143	92
35°	33	33	33	30	27	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6664.8	6664.8	6664.8	6664.8	6664.8
1°	6635.0	6588.7	6583.1	6611.9	6527.1
2°	6465.4	6432.5	6413.5	6430.4	6334.3
3°	6232.5	6200.6	6166.2	6166.7	6059.3
4°	5915.4	5890.2	5832.1	5814.6	5752.4
5°	5524.7	5473.8	5423.4	5376.2	5314.0
6°	5092.9	5027.1	4955.2	4884.8	4821.0
7°	4585.1	4541.4	4446.3	4350.2	4296.2
8°	4107.6	4037.1	3926.1	3805.8	3760.1
9°	3594.0	3543.7	3416.2	3276.4	3230.6
10°	3128.3	3075.9	2935.6	2779.8	2739.7
11°	2691.4	2642.1	2496.1	2332.6	2290.0
12°	2321.8	2251.9	2084.4	1942.5	1900.9
13°	1953.8	1906.0	1747.2	1606.8	1526.1
14°	1640.8	1601.2	1457.3	1333.9	1248.6
15°	1364.7	1332.3	1212.1	1091.8	1015.7
16°	1119.5	1099.5	1004.4	888.2	826.0
17°	908.3	889.8	829.1	722.2	669.8
18°	733.5	730.9	680.6	588.0	541.3
19°	603.5	602.4	556.2	478.6	440.0
20°	481.6	488.3	452.9	385.0	358.8
21°	392.7	396.3	368.0	316.6	293.0
22°	319.7	322.3	303.8	261.6	248.8
23°	262.2	263.7	248.3	216.9	205.6
24°	215.9	216.9	203.0	180.9	171.2
25°	178.4	179.4	166.5	151.1	143.4
26°	148.0	149.1	137.8	127.0	119.3
27°	122.9	124.9	113.6	106.9	98.7
28°	104.9	105.4	95.1	91.0	83.3
29°	85.8	88.9	80.2	76.6	70.9
30°	73.5	75.0	68.4	65.8	60.7
32.5°	48.8	49.9	46.8	44.7	40.6
35°	32.9	33.4	32.9	29.8	27.2
37.5°	22.6	22.6	23.1	19.5	18.5
40°	15.4	15.4	15.9	13.4	12.9
42.5°	11.3	11.3	10.8	9.3	9.3
45°	8.2	8.2	7.7	7.2	7.2
47.5°	6.7	6.2	5.7	5.7	5.7
50°	5.1	5.1	4.6	4.1	4.6
52.5°	4.1	4.1	3.6	3.6	3.6
55°	3.6	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.5	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.1	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)