

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: P282732

Luminaire Tested: **LDA2B159040D010 EU2B15NFL259040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282732  
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: LDA2B159040D010 EU2B15NFL259040 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1026.5 lumens  
Efficiency: N/A  
Efficacy: 72.8 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

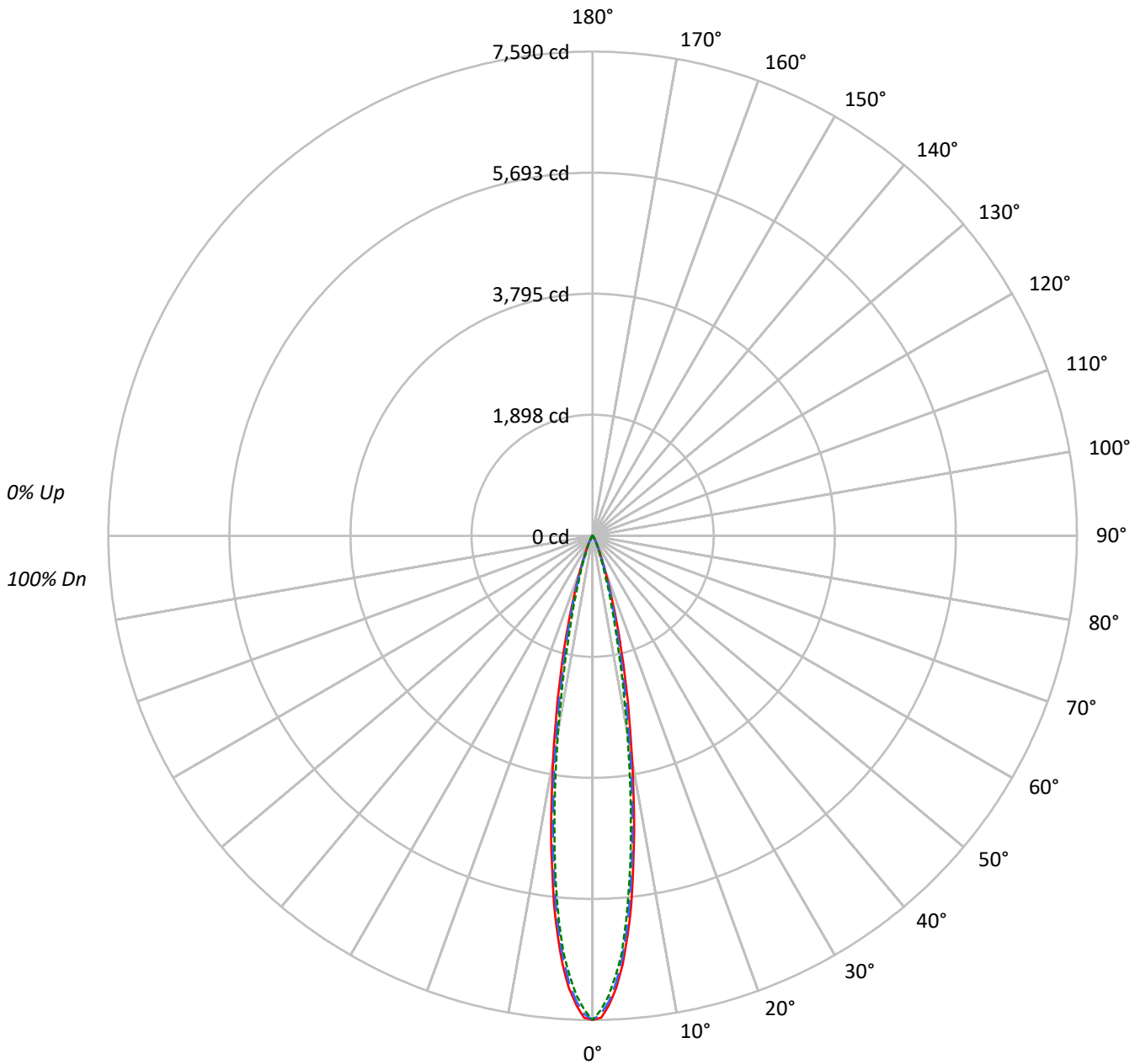
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3744715	3744715	3744715
5°	3115991	3058840	2997132
10°	1784815	1674852	1563085
15°	793832	705010	590803
20°	287976	270755	214525
25°	110560	103266	88895
30°	47683	44378	39365
35°	22586	22586	18671
40°	11335	11657	9403
45°	6559	6140	5721
50°	4528	4068	4068
55°	3527	2494	3011
60°	2861	1776	2269
65°	2101	1401	2101
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.7	48.1
10°-20°	399.5	38.9
20°-30°	96.3	9.4
30°-40°	24.6	2.4
40°-50°	7.3	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	989.5	96.4
0°-40°	1014.1	98.8
0°-60°	1024.5	99.8
0°-90°	1026.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7590	7590	7590	7590	7590	
5°	6292	6234	6176	6123	6052	509
15°	1554	1517	1380	1243	1157	443
25°	203	204	190	172	163	105
35°	38	38	38	34	31	26
45°	9	9	9	8	8	8
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
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°	7590.2	7590.2	7590.2	7590.2	7590.2
1°	7556.2	7503.5	7497.1	7529.9	7433.3
2°	7363.0	7325.6	7303.9	7323.2	7213.7
3°	7097.8	7061.5	7022.3	7022.9	6900.6
4°	6736.7	6708.0	6641.8	6621.9	6551.1
5°	6291.8	6233.8	6176.4	6122.6	6051.8
6°	5800.0	5725.1	5643.1	5563.0	5490.4
7°	5221.7	5171.9	5063.6	4954.1	4892.7
8°	4677.8	4597.6	4471.2	4334.2	4282.1
9°	4093.0	4035.7	3890.5	3731.3	3679.2
10°	3562.7	3503.0	3343.2	3165.8	3120.1
11°	3065.1	3008.9	2842.6	2656.5	2607.9
12°	2644.2	2564.6	2373.8	2212.2	2164.8
13°	2225.1	2170.6	1989.7	1829.9	1738.0
14°	1868.6	1823.5	1659.6	1519.1	1421.9
15°	1554.2	1517.3	1380.3	1243.4	1156.7
16°	1275.0	1252.1	1143.8	1011.6	940.7
17°	1034.4	1013.3	944.2	822.5	762.8
18°	835.4	832.4	775.1	669.7	616.4
19°	687.2	686.1	633.4	545.0	501.1
20°	548.5	556.1	515.7	438.5	408.6
21°	447.2	451.3	419.1	360.6	333.7
22°	364.1	367.0	346.0	298.0	283.3
23°	298.5	300.3	282.7	247.0	234.2
24°	245.9	247.0	231.2	206.1	194.9
25°	203.1	204.3	189.7	172.1	163.3
26°	168.6	169.8	156.9	144.6	135.8
27°	139.9	142.2	129.4	121.8	112.4
28°	119.4	120.0	108.3	103.6	94.8
29°	97.8	101.3	91.3	87.2	80.8
30°	83.7	85.5	77.9	74.9	69.1
32.5°	55.6	56.8	53.3	50.9	46.2
35°	37.5	38.1	37.5	34.0	31.0
37.5°	25.8	25.8	26.3	22.2	21.1
40°	17.6	17.6	18.1	15.2	14.6
42.5°	12.9	12.9	12.3	10.5	10.5
45°	9.4	9.4	8.8	8.2	8.2
47.5°	7.6	7.0	6.4	6.4	6.4
50°	5.9	5.9	5.3	4.7	5.3
52.5°	4.7	4.7	4.1	4.1	4.1
55°	4.1	3.5	2.9	2.9	3.5
57.5°	2.9	2.9	2.3	2.3	2.9
60°	2.9	2.3	1.8	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.3	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)