

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: P282736

Luminaire Tested: **LDA2B159050D010 EU2B15NFL259050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282736  
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: LDA2B159050D010 EU2B15NFL259050 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1072.2 lumens  
Efficiency: N/A  
Efficacy: 76.0 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

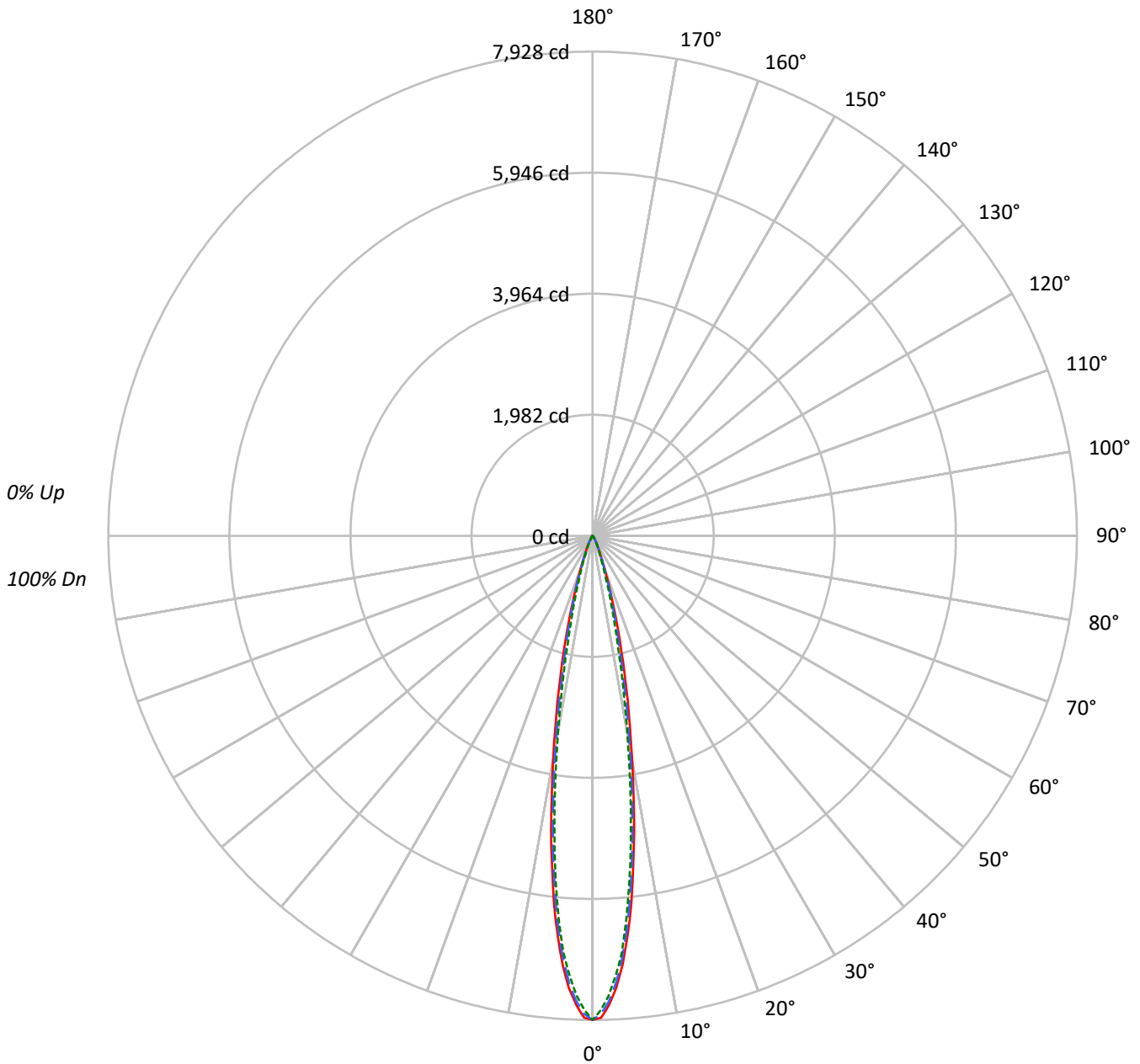
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	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°	3911570	3911570	3911570
5°	3254858	3195181	3130700
10°	1864370	1749447	1632770
15°	829228	736473	617158
20°	300839	282831	224081
25°	115514	107839	92869
30°	49790	46315	41131
35°	23549	23549	19514
40°	11786	12237	9854
45°	6838	6419	6000
50°	4682	4221	4221
55°	3699	2666	3183
60°	3059	1776	2368
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°	515.7	48.1
10°-20°	417.3	38.9
20°-30°	100.6	9.4
30°-40°	25.6	2.4
40°-50°	7.6	0.7
50°-60°	3.3	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°	1033.6	96.4
0°-40°	1059.2	98.8
0°-60°	1070.1	99.8
0°-90°	1072.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7928	7928	7928	7928	7928	
5°	6572	6512	6452	6395	6322	531
15°	1624	1585	1442	1299	1208	463
25°	212	213	198	180	171	110
35°	39	40	39	36	32	27
45°	10	10	9	9	9	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°	7928.4	7928.4	7928.4	7928.4	7928.4
1°	7893.0	7837.9	7831.2	7865.4	7764.5
2°	7691.2	7652.0	7629.4	7649.6	7535.2
3°	7414.2	7376.3	7335.3	7335.9	7208.1
4°	7036.9	7006.9	6937.8	6917.0	6843.0
5°	6572.2	6511.6	6451.7	6395.4	6321.5
6°	6058.5	5980.3	5894.6	5810.9	5735.1
7°	5454.4	5402.4	5289.3	5174.9	5110.7
8°	4886.3	4802.5	4670.5	4527.4	4473.0
9°	4275.5	4215.5	4063.9	3897.6	3843.1
10°	3721.5	3659.1	3492.1	3306.9	3259.2
11°	3201.7	3143.0	2969.3	2774.9	2724.1
12°	2762.0	2678.9	2479.5	2310.8	2261.2
13°	2324.2	2267.4	2078.4	1911.5	1815.5
14°	1951.8	1904.8	1733.5	1586.8	1485.3
15°	1623.5	1585.0	1441.9	1298.8	1208.3
16°	1331.8	1308.0	1194.8	1056.6	982.6
17°	1080.5	1058.5	986.3	859.1	796.8
18°	872.6	869.5	809.6	699.5	643.9
19°	717.9	716.7	661.6	569.3	523.4
20°	573.0	580.9	538.7	458.0	426.8
21°	467.2	471.4	437.8	376.7	348.5
22°	380.3	383.4	361.4	311.2	296.0
23°	311.9	313.7	295.3	258.0	244.6
24°	256.8	258.0	241.5	215.2	203.6
25°	212.2	213.4	198.1	179.8	170.6
26°	176.1	177.3	163.9	151.0	141.9
27°	146.1	148.6	135.1	127.2	117.4
28°	124.7	125.4	113.1	108.2	99.1
29°	102.1	105.8	95.4	91.1	84.4
30°	87.4	89.3	81.3	78.3	72.2
32.5°	58.1	59.3	55.6	53.2	48.3
35°	39.1	39.7	39.1	35.5	32.4
37.5°	26.9	26.9	27.5	23.2	22.0
40°	18.3	18.3	19.0	15.9	15.3
42.5°	13.5	13.5	12.8	11.0	11.0
45°	9.8	9.8	9.2	8.6	8.6
47.5°	7.9	7.3	6.7	6.7	6.7
50°	6.1	6.1	5.5	4.9	5.5
52.5°	4.9	4.9	4.3	4.3	4.3
55°	4.3	3.7	3.1	3.1	3.7
57.5°	3.1	3.1	2.4	2.4	3.1
60°	3.1	2.4	1.8	2.4	2.4



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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°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)