

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: P282154

Luminaire Tested: **LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282154  
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: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 558.9 lumens  
Efficiency: N/A  
Efficacy: 79.8 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

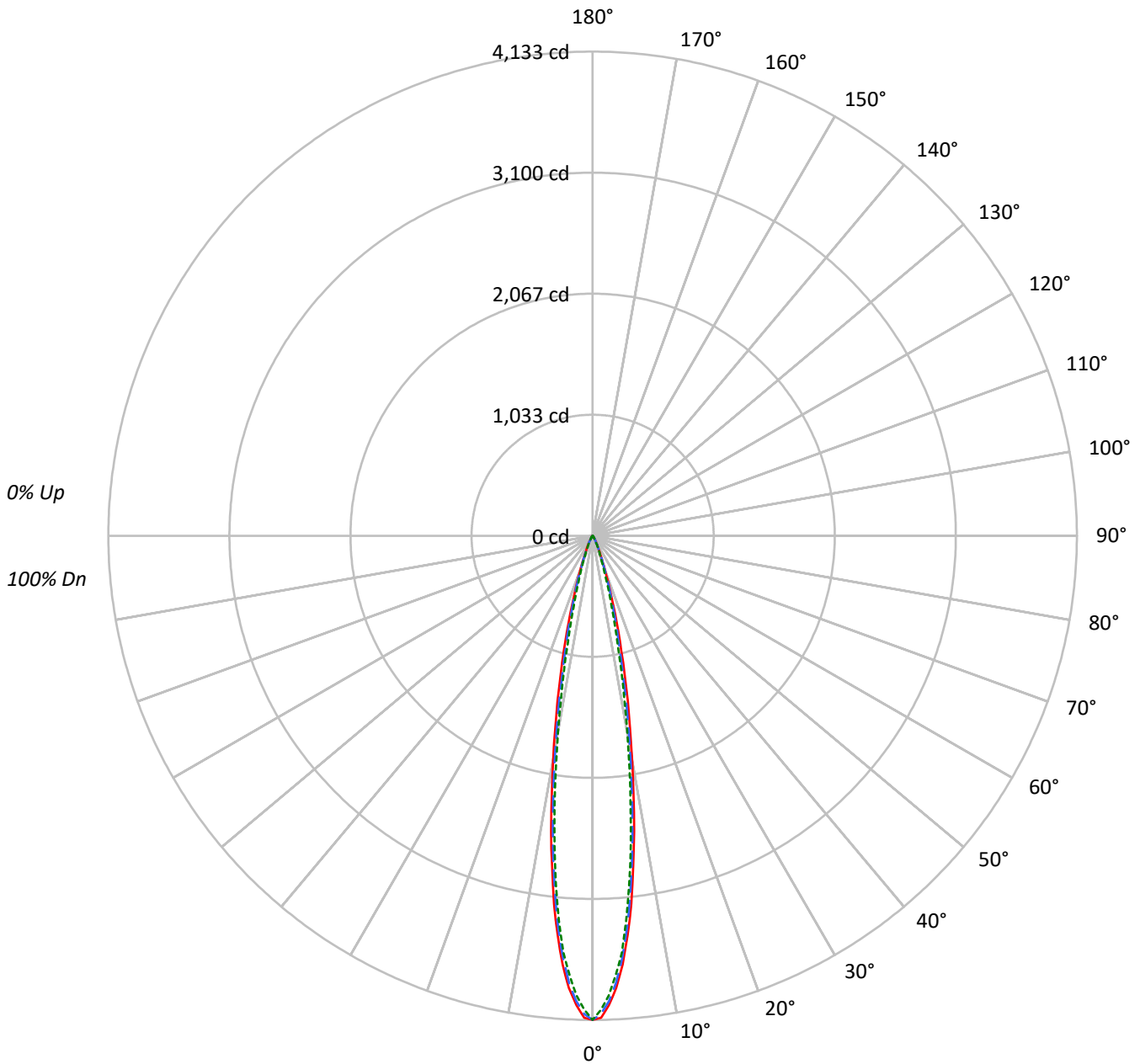
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	2038867	2038867	2038867
5°	1696565	1665464	1631837
10°	971787	911921	851052
15°	432210	383892	321680
20°	156772	147427	116818
25°	60207	56233	48394
30°	25978	24155	21420
35°	12287	12287	10179
40°	6183	6376	5152
45°	3558	3349	3140
50°	2456	2226	2226
55°	1892	1376	1634
60°	1579	987	1283
65°	1167	700	1167
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.8	48.1
10°-20°	217.5	38.9
20°-30°	52.4	9.4
30°-40°	13.4	2.4
40°-50°	4.0	0.7
50°-60°	1.7	0.3
60°-70°	0.8	0.1
70°-80°	0.3	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°	538.7	96.4
0°-40°	552.1	98.8
0°-60°	557.8	99.8
0°-90°	558.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4133	4133	4133	4133	4133	
5°	3426	3394	3363	3334	3295	277
15°	846	826	752	677	630	241
25°	111	111	103	94	89	57
35°	20	21	20	18	17	14
45°	5	5	5	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4132.6	4132.6	4132.6	4132.6	4132.6
1°	4114.2	4085.5	4082.0	4099.8	4047.2
2°	4009.0	3988.6	3976.8	3987.3	3927.7
3°	3864.6	3844.8	3823.5	3823.8	3757.2
4°	3667.9	3652.3	3616.3	3605.5	3566.9
5°	3425.7	3394.1	3362.9	3333.6	3295.0
6°	3158.0	3117.2	3072.5	3028.9	2989.4
7°	2843.1	2816.0	2757.0	2697.4	2663.9
8°	2547.0	2503.3	2434.5	2359.9	2331.5
9°	2228.6	2197.3	2118.3	2031.6	2003.2
10°	1939.8	1907.3	1820.3	1723.7	1698.8
11°	1668.9	1638.3	1547.7	1446.4	1419.9
12°	1439.7	1396.4	1292.4	1204.5	1178.7
13°	1211.5	1181.8	1083.4	996.3	946.3
14°	1017.4	992.8	903.6	827.1	774.2
15°	846.2	826.1	751.6	677.0	629.8
16°	694.2	681.8	622.8	550.8	512.2
17°	563.2	551.7	514.1	447.8	415.3
18°	454.8	453.2	422.0	364.6	335.6
19°	374.2	373.6	344.9	296.7	272.8
20°	298.6	302.8	280.8	238.7	222.5
21°	243.5	245.7	228.2	196.3	181.7
22°	198.2	199.8	188.4	162.2	154.3
23°	162.6	163.5	153.9	134.5	127.5
24°	133.9	134.5	125.9	112.2	106.1
25°	110.6	111.2	103.3	93.7	88.9
26°	91.8	92.4	85.4	78.7	73.9
27°	76.2	77.5	70.4	66.3	61.2
28°	65.0	65.3	59.0	56.4	51.6
29°	53.2	55.1	49.7	47.5	44.0
30°	45.6	46.5	42.4	40.8	37.6
32.5°	30.3	30.9	29.0	27.7	25.2
35°	20.4	20.7	20.4	18.5	16.9
37.5°	14.0	14.0	14.3	12.1	11.5
40°	9.6	9.6	9.9	8.3	8.0
42.5°	7.0	7.0	6.7	5.7	5.7
45°	5.1	5.1	4.8	4.5	4.5
47.5°	4.1	3.8	3.5	3.5	3.5
50°	3.2	3.2	2.9	2.5	2.9
52.5°	2.5	2.5	2.2	2.2	2.2
55°	2.2	1.9	1.6	1.6	1.9
57.5°	1.6	1.6	1.3	1.3	1.6
60°	1.6	1.3	1.0	1.3	1.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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



Report Generated By E9808895 / USPTCWHP6082093







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







62.5°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.6	0.6	1.0



(END OF REPORT)