

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: P283474

Luminaire Tested: **LDA2B058035D010 EU2B05FL408035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058035D010 EU2B05FL408035 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 700.6 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

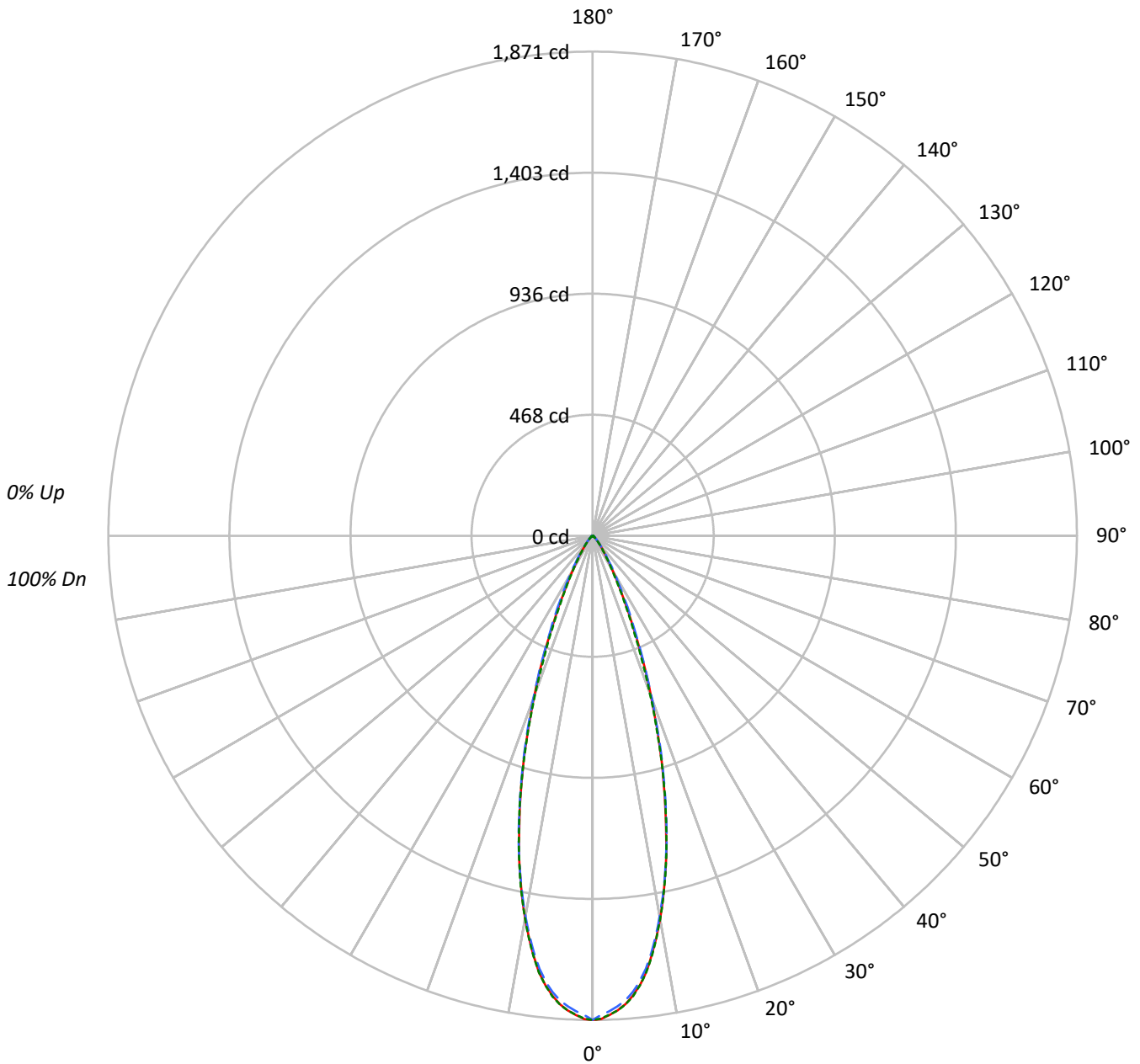
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	923129	923129	923129
5°	883420	876784	884807
10°	752661	747902	753413
15°	554743	558369	556530
20°	346306	352712	338641
25°	178878	191943	169896
30°	85738	98328	81750
35°	44268	49026	41437
40°	24795	26084	23572
45°	15071	15071	14513
50°	7829	9671	7829
55°	4043	6451	4387
60°	4638	4638	4638
65°	5020	5020	5020
70°	6203	5626	6203
75°	5909	5909	5909
80°	5682	5682	5682
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	23.0
10°-20°	295.6	42.2
20°-30°	160.3	22.9
30°-40°	51.5	7.3
40°-50°	17.5	2.5
50°-60°	6.1	0.9
60°-70°	4.5	0.6
70°-80°	3.3	0.5
80°-90°	1.0	0.1
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°	616.8	88.0
0°-40°	668.3	95.4
0°-60°	691.9	98.8
0°-90°	700.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1784	1773	1770	1788	1787	161
15°	1086	1095	1093	1098	1090	294
25°	329	344	353	328	312	157
35°	74	77	81	74	69	50
45°	22	22	22	22	21	17
55°	5	6	8	6	5	5
65°	4	5	4	5	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1871.1	1871.1	1871.1	1871.1	1871.1
1°	1867.9	1854.6	1852.6	1869.9	1866.0
2°	1853.0	1840.4	1838.4	1855.7	1852.2
3°	1836.5	1825.1	1821.1	1839.2	1836.9
4°	1814.5	1803.8	1800.3	1818.4	1816.4
5°	1783.8	1772.8	1770.4	1788.1	1786.6
6°	1746.1	1737.0	1732.7	1750.4	1747.2
7°	1698.9	1690.6	1685.9	1698.9	1700.5
8°	1637.6	1633.6	1628.1	1641.1	1641.1
9°	1572.3	1568.8	1562.9	1574.7	1574.7
10°	1502.4	1500.0	1492.9	1503.9	1503.9
11°	1425.7	1424.5	1419.4	1428.5	1428.5
12°	1345.1	1347.9	1343.2	1351.0	1348.3
13°	1264.5	1263.4	1263.8	1269.7	1265.3
14°	1173.3	1180.4	1181.6	1185.1	1178.5
15°	1086.1	1095.1	1093.2	1098.3	1089.6
16°	996.9	1007.1	1006.7	1007.9	999.6
17°	913.5	919.4	919.8	918.6	908.4
18°	824.7	832.9	832.9	831.0	818.8
19°	737.8	744.1	748.4	744.1	730.0
20°	659.6	663.9	671.8	660.8	645.0
21°	584.5	588.4	595.1	582.2	564.9
22°	512.6	517.7	524.0	509.0	491.0
23°	445.4	457.2	459.5	439.1	423.7
24°	383.6	397.0	400.9	380.1	364.0
25°	328.6	343.6	352.6	328.2	312.1
26°	281.1	295.6	306.6	282.2	266.9
27°	239.4	254.7	266.1	243.3	228.8
28°	203.6	218.6	230.3	209.1	195.4
29°	176.9	185.5	197.3	179.6	167.1
30°	150.5	160.0	172.6	154.5	143.5
32.5°	103.4	108.5	118.3	107.3	98.7
35°	73.5	76.7	81.4	73.9	68.8
37.5°	52.3	53.9	56.6	52.3	49.5
40°	38.5	39.3	40.5	38.1	36.6
42.5°	28.7	29.1	29.1	28.3	27.5
45°	21.6	22.0	21.6	21.6	20.8
47.5°	15.7	16.9	16.5	16.5	15.3
50°	10.2	12.6	12.6	12.2	10.2
52.5°	6.3	8.6	9.8	8.6	6.7
55°	4.7	5.9	7.5	5.9	5.1
57.5°	4.7	4.7	5.5	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
72.5°	3.9	3.9	3.5	3.9	3.5
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.3	4.7	4.3	4.7	4.3



(END OF REPORT)