

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: P283489

Luminaire Tested: **LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283489  
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: LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 676.5 lumens  
Efficiency: N/A  
Efficacy: 96.6 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

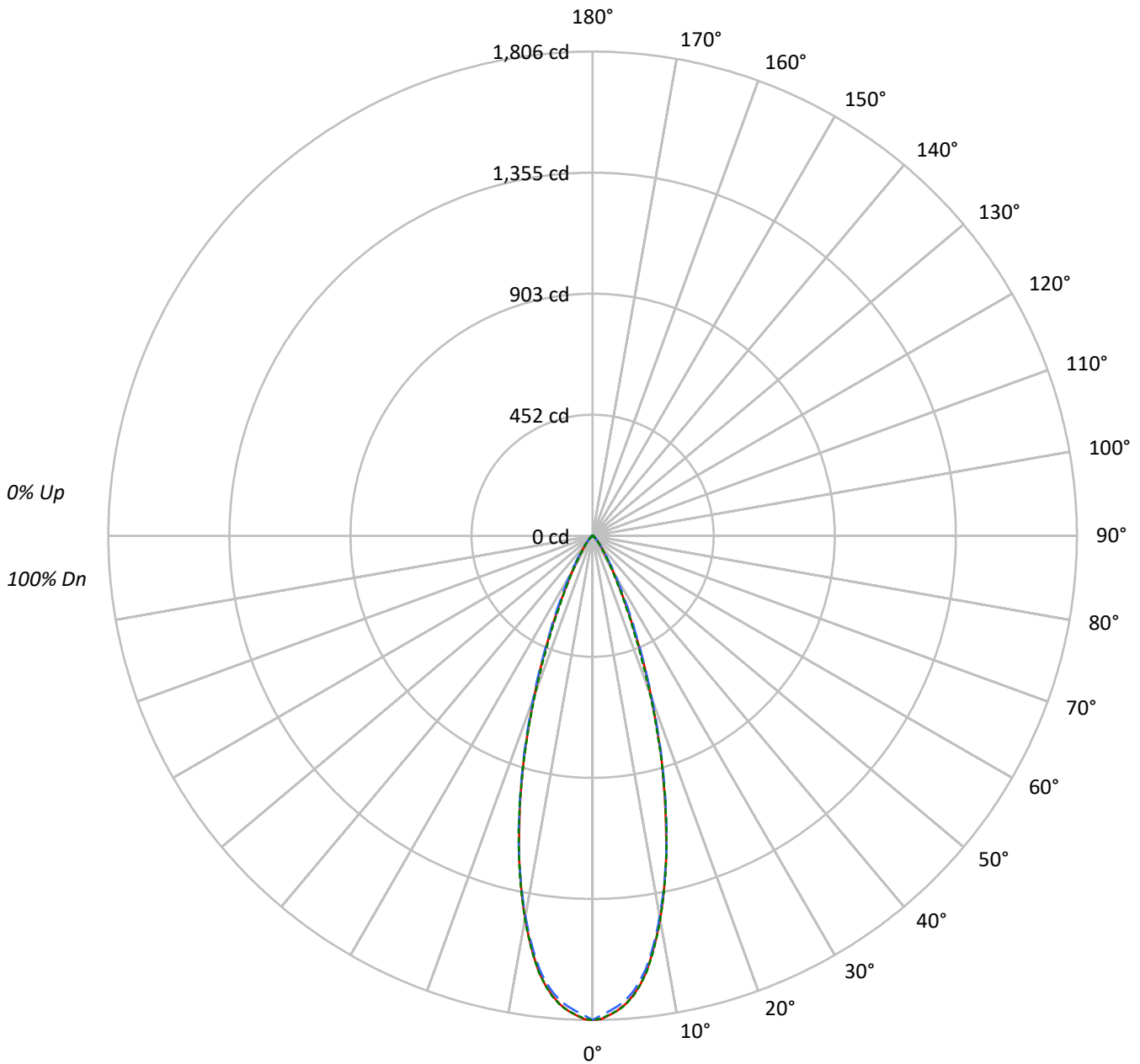
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

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

	0°	45°	90°
0°	891209	891209	891209
5°	852913	846525	854201
10°	726611	722052	727412
15°	535589	539062	537326
20°	334336	340531	326985
25°	172727	185302	164017
30°	82775	94910	78901
35°	42762	47339	39992
40°	23958	25182	22735
45°	14582	14582	14024
50°	7599	9287	7599
55°	3957	6193	4215
60°	4539	4539	4539
65°	4903	4903	4903
70°	6058	5481	6058
75°	5719	5719	5719
80°	5398	5398	5398
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	23.0
10°-20°	285.4	42.2
20°-30°	154.7	22.9
30°-40°	49.7	7.3
40°-50°	16.9	2.5
50°-60°	5.9	0.9
60°-70°	4.4	0.6
70°-80°	3.2	0.5
80°-90°	0.9	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°	595.5	88.0
0°-40°	645.2	95.4
0°-60°	668.1	98.8
0°-90°	676.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1722	1712	1709	1726	1725	156
15°	1049	1057	1055	1060	1052	284
25°	317	332	340	317	301	152
35°	71	74	79	71	66	48
45°	21	21	21	21	20	17
55°	5	6	7	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°	1806.4	1806.4	1806.4	1806.4	1806.4
1°	1803.4	1790.5	1788.6	1805.3	1801.5
2°	1789.0	1776.8	1774.9	1791.6	1788.2
3°	1773.0	1762.0	1758.2	1775.7	1773.4
4°	1751.8	1741.5	1738.1	1755.6	1753.7
5°	1722.2	1711.5	1709.3	1726.3	1724.8
6°	1685.7	1677.0	1672.8	1689.9	1686.9
7°	1640.2	1632.2	1627.7	1640.2	1641.7
8°	1581.0	1577.2	1571.9	1584.4	1584.4
9°	1518.0	1514.6	1508.9	1520.3	1520.3
10°	1450.4	1448.2	1441.3	1452.0	1452.0
11°	1376.4	1375.3	1370.4	1379.1	1379.1
12°	1298.6	1301.3	1296.7	1304.3	1301.7
13°	1220.8	1219.7	1220.1	1225.8	1221.6
14°	1132.8	1139.6	1140.8	1144.2	1137.7
15°	1048.6	1057.3	1055.4	1060.3	1052.0
16°	962.4	972.3	971.9	973.0	965.1
17°	882.0	887.6	888.0	886.9	877.0
18°	796.2	804.2	804.2	802.3	790.5
19°	712.3	718.4	722.6	718.4	704.7
20°	636.8	641.0	648.6	637.9	622.8
21°	564.3	568.1	574.6	562.0	545.3
22°	494.9	499.8	505.9	491.5	474.0
23°	430.0	441.4	443.6	423.9	409.1
24°	370.4	383.3	387.1	367.0	351.4
25°	317.3	331.7	340.4	316.9	301.3
26°	271.3	285.4	296.0	272.5	257.7
27°	231.1	245.9	256.9	234.9	220.9
28°	196.6	211.0	222.4	201.9	188.6
29°	170.8	179.1	190.5	173.4	161.3
30°	145.3	154.5	166.6	149.1	138.5
32.5°	99.8	104.7	114.2	103.6	95.3
35°	71.0	74.0	78.6	71.3	66.4
37.5°	50.5	52.0	54.6	50.5	47.8
40°	37.2	37.9	39.1	36.8	35.3
42.5°	27.7	28.1	28.1	27.3	26.6
45°	20.9	21.3	20.9	20.9	20.1
47.5°	15.2	16.3	15.9	15.9	14.8
50°	9.9	12.1	12.1	11.8	9.9
52.5°	6.1	8.3	9.5	8.3	6.5
55°	4.6	5.7	7.2	5.7	4.9
57.5°	4.6	4.6	5.3	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.8	4.2	4.2
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
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°	4.6	4.6	4.6	4.6	4.6
65°	4.2	4.6	4.2	4.6	4.2



(END OF REPORT)