

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: P283481

Luminaire Tested: **LDA2B058040D010 EU2B05FL408040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283481  
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: LDA2B058040D010 EU2B05FL408040 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 696.2 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

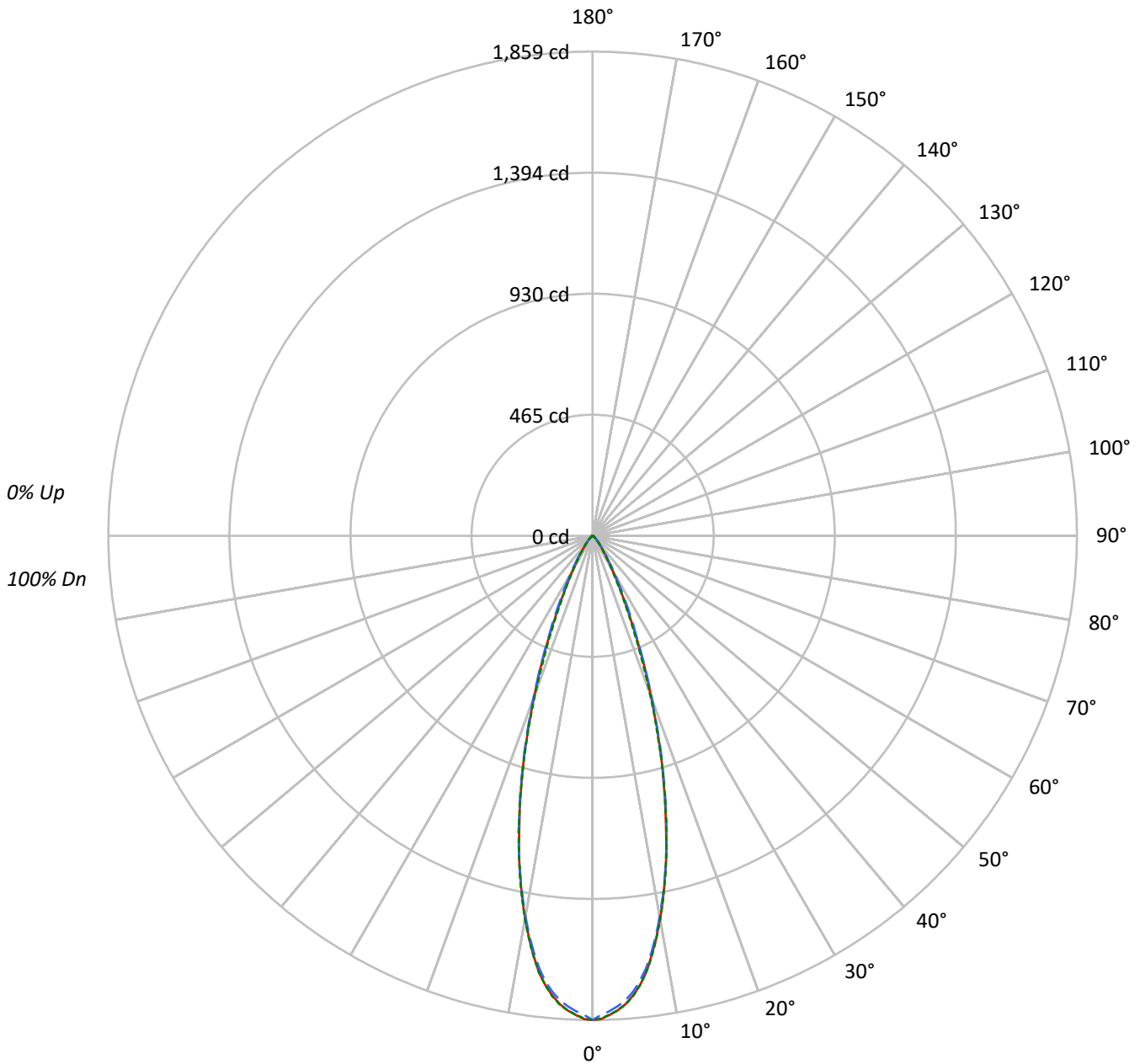
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	917258	917258	917258
5°	877824	871237	879161
10°	747852	743143	748654
15°	551218	554794	553006
20°	344101	350454	336488
25°	177735	190745	168807
30°	85225	97701	81237
35°	43967	48725	41196
40°	24667	25890	23379
45°	15001	15001	14443
50°	7829	9594	7829
55°	4043	6365	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°	159.9	23.0
10°-20°	293.7	42.2
20°-30°	159.3	22.9
30°-40°	51.1	7.3
40°-50°	17.4	2.5
50°-60°	6.1	0.9
60°-70°	4.5	0.6
70°-80°	3.2	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°	612.9	88.0
0°-40°	664.0	95.4
0°-60°	687.6	98.8
0°-90°	696.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1859	1859	1859	1859	1859	
5°	1772	1762	1759	1777	1775	160
15°	1079	1088	1086	1091	1083	293
25°	326	341	350	326	310	156
35°	73	76	81	73	68	49
45°	22	22	22	22	21	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°	1859.2	1859.2	1859.2	1859.2	1859.2
1°	1856.0	1842.8	1840.8	1858.0	1854.1
2°	1841.2	1828.7	1826.7	1843.9	1840.4
3°	1824.8	1813.5	1809.6	1827.5	1825.2
4°	1802.9	1792.4	1788.9	1806.8	1804.9
5°	1772.5	1761.5	1759.2	1776.8	1775.2
6°	1735.0	1726.0	1721.7	1739.3	1736.1
7°	1688.1	1679.9	1675.2	1688.1	1689.7
8°	1627.2	1623.3	1617.8	1630.7	1630.7
9°	1562.3	1558.8	1553.0	1564.7	1564.7
10°	1492.8	1490.5	1483.4	1494.4	1494.4
11°	1416.6	1415.5	1410.4	1419.4	1419.4
12°	1336.6	1339.3	1334.6	1342.4	1339.7
13°	1256.5	1255.3	1255.7	1261.6	1257.3
14°	1165.9	1172.9	1174.1	1177.6	1171.0
15°	1079.2	1088.2	1086.2	1091.3	1082.7
16°	990.5	1000.7	1000.3	1001.5	993.2
17°	907.7	913.6	914.0	912.8	902.6
18°	819.4	827.6	827.6	825.7	813.6
19°	733.1	739.4	743.7	739.4	725.3
20°	655.4	659.7	667.5	656.6	640.9
21°	580.8	584.7	591.3	578.5	561.3
22°	509.3	514.4	520.6	505.8	487.8
23°	442.5	454.2	456.6	436.3	421.0
24°	381.2	394.5	398.4	377.7	361.7
25°	326.5	341.4	350.4	326.1	310.1
26°	279.3	293.7	304.7	280.4	265.2
27°	237.9	253.1	264.4	241.8	227.3
28°	202.3	217.2	228.9	207.8	194.1
29°	175.8	184.4	196.1	178.5	166.0
30°	149.6	159.0	171.5	153.5	142.6
32.5°	102.7	107.8	117.6	106.6	98.0
35°	73.0	76.2	80.9	73.4	68.4
37.5°	51.9	53.5	56.2	51.9	49.2
40°	38.3	39.1	40.2	37.9	36.3
42.5°	28.5	28.9	28.9	28.1	27.3
45°	21.5	21.9	21.5	21.5	20.7
47.5°	15.6	16.8	16.4	16.4	15.2
50°	10.2	12.5	12.5	12.1	10.2
52.5°	6.2	8.6	9.8	8.6	6.6
55°	4.7	5.9	7.4	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°	2.3	2.3	2.3	2.3	2.3
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)