

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: P283617

Luminaire Tested: **LDA2B109730D010 EU2B10FL409730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283617
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: LDA2B109730D010 EU2B10FL409730 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 682.4 lumens
Efficiency: N/A
Efficacy: 68.2 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

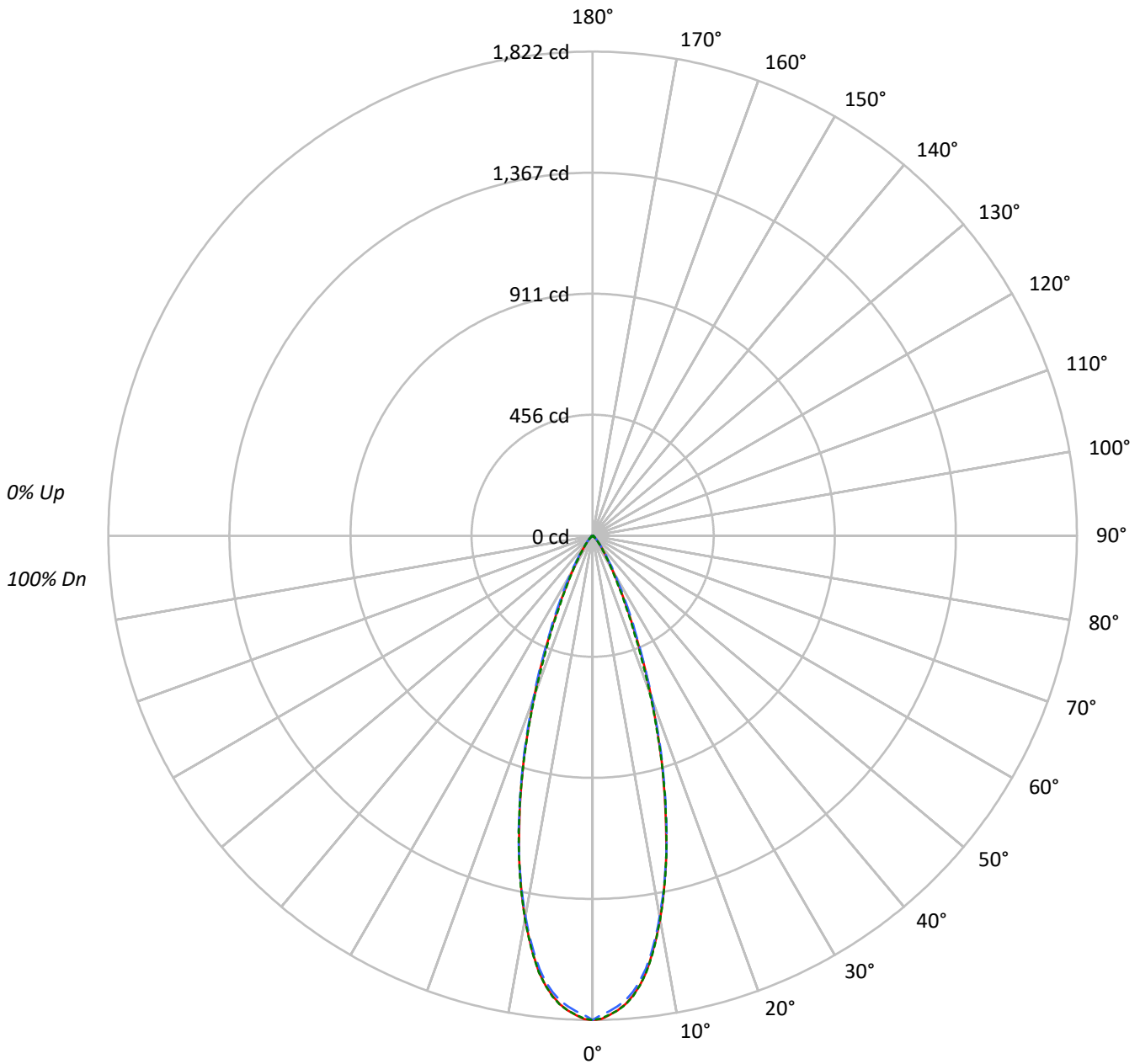
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	899053	899053	899053
5°	860391	853904	861679
10°	733023	728414	733775
15°	540237	543761	542025
20°	337276	343471	329820
25°	174197	186935	165487
30°	83516	95764	79585
35°	43124	47701	40353
40°	24151	25375	22928
45°	14722	14722	14164
50°	7675	9441	7675
55°	3957	6279	4301
60°	4539	4539	4539
65°	4903	4903	4903
70°	6058	5481	6058
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	23.0
10°-20°	287.9	42.2
20°-30°	156.1	22.9
30°-40°	50.1	7.3
40°-50°	17.1	2.5
50°-60°	6.0	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°	600.7	88.0
0°-40°	650.8	95.4
0°-60°	673.9	98.8
0°-90°	682.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1737	1726	1724	1742	1740	157
15°	1058	1067	1065	1070	1061	287
25°	320	335	343	320	304	153
35°	72	75	79	72	67	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°	1822.3	1822.3	1822.3	1822.3	1822.3
1°	1819.2	1806.2	1804.3	1821.1	1817.3
2°	1804.6	1792.4	1790.5	1807.3	1803.9
3°	1788.6	1777.5	1773.6	1791.2	1788.9
4°	1767.1	1756.8	1753.3	1771.0	1769.0
5°	1737.3	1726.5	1724.2	1741.5	1739.9
6°	1700.5	1691.7	1687.5	1704.7	1701.7
7°	1654.6	1646.5	1641.9	1654.6	1656.1
8°	1594.9	1591.0	1585.7	1598.3	1598.3
9°	1531.3	1527.9	1522.1	1533.6	1533.6
10°	1463.2	1460.9	1454.0	1464.7	1464.7
11°	1388.5	1387.4	1382.4	1391.2	1391.2
12°	1310.0	1312.7	1308.1	1315.8	1313.1
13°	1231.6	1230.4	1230.8	1236.5	1232.3
14°	1142.7	1149.6	1150.8	1154.2	1147.7
15°	1057.7	1066.6	1064.6	1069.6	1061.2
16°	970.8	980.8	980.4	981.6	973.5
17°	889.7	895.4	895.8	894.7	884.7
18°	803.2	811.2	811.2	809.3	797.4
19°	718.6	724.7	728.9	724.7	710.9
20°	642.4	646.6	654.2	643.5	628.2
21°	569.3	573.1	579.6	567.0	550.1
22°	499.2	504.2	510.3	495.8	478.1
23°	433.7	445.2	447.5	427.6	412.7
24°	373.6	386.7	390.5	370.2	354.5
25°	320.0	334.6	343.4	319.7	304.0
26°	273.7	287.9	298.6	274.9	259.9
27°	233.1	248.1	259.2	237.0	222.8
28°	198.3	212.9	224.3	203.7	190.3
29°	172.3	180.7	192.2	175.0	162.7
30°	146.6	155.8	168.1	150.5	139.7
32.5°	100.7	105.7	115.2	104.5	96.1
35°	71.6	74.7	79.2	72.0	67.0
37.5°	50.9	52.4	55.1	50.9	48.2
40°	37.5	38.3	39.4	37.1	35.6
42.5°	27.9	28.3	28.3	27.6	26.8
45°	21.1	21.4	21.1	21.1	20.3
47.5°	15.3	16.5	16.1	16.1	14.9
50°	10.0	12.3	12.3	11.9	10.0
52.5°	6.1	8.4	9.6	8.4	6.5
55°	4.6	5.7	7.3	5.7	5.0
57.5°	4.6	4.6	5.4	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°	3.1	3.1	3.1	3.1	3.1
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)