

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: P283574

Luminaire Tested: **LDA2B109024D010 EU2B10FL409024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283574
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: LDA2B109024D010 EU2B10FL409024 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 683.1 lumens
Efficiency: N/A
Efficacy: 68.3 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

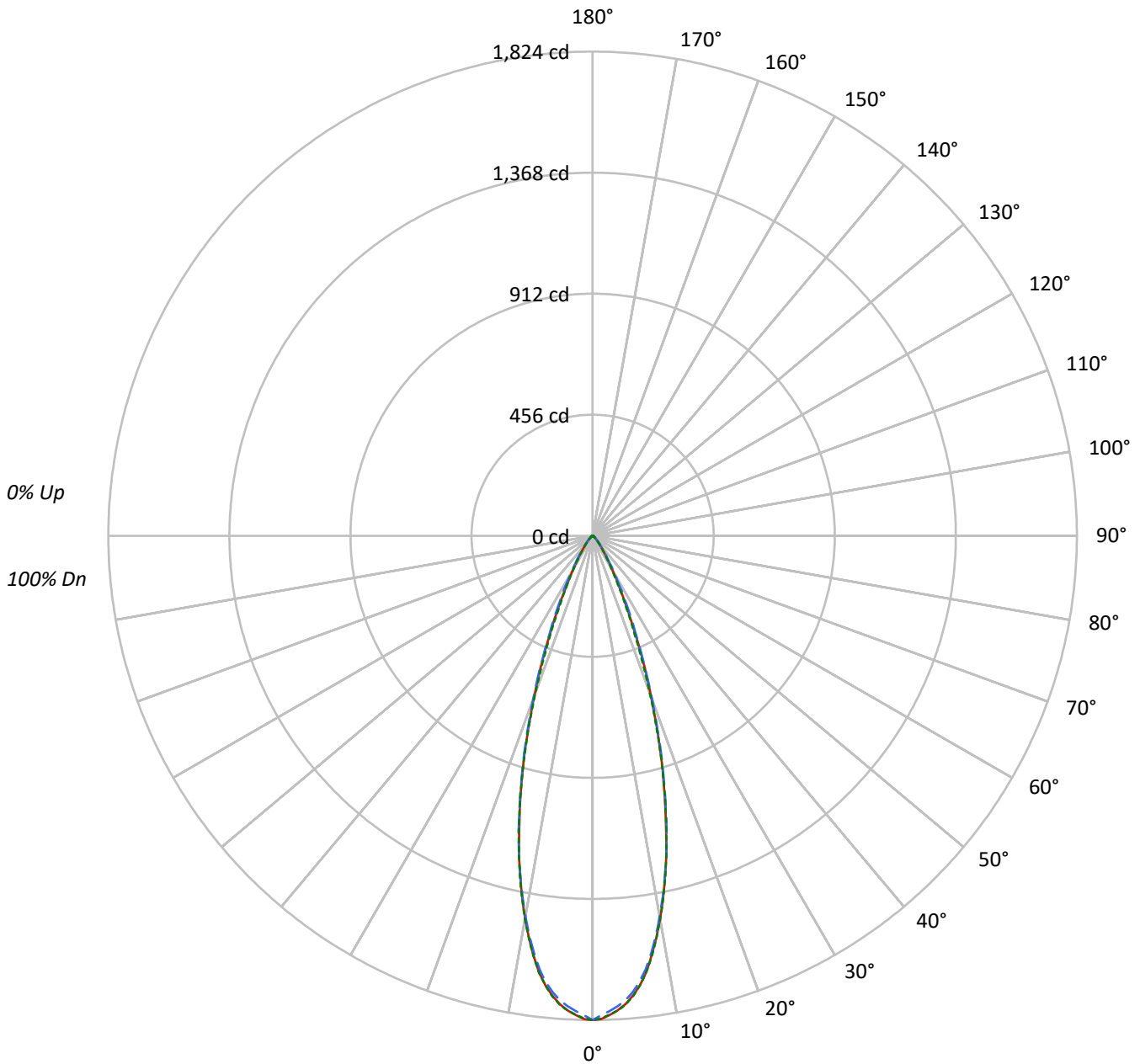
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	900089	900089	900089
5°	861382	854944	862719
10°	733875	729266	734626
15°	540901	544425	542637
20°	337643	343891	330241
25°	174414	187153	165650
30°	83630	95878	79699
35°	43184	47761	40413
40°	24216	25440	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°	156.9	23.0
10°-20°	288.2	42.2
20°-30°	156.3	22.9
30°-40°	50.2	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°	601.4	88.0
0°-40°	651.6	95.4
0°-60°	674.7	98.8
0°-90°	683.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1824	1824	1824	1824	1824	
5°	1739	1729	1726	1744	1742	157
15°	1059	1068	1066	1071	1062	287
25°	320	335	344	320	304	154
35°	72	75	79	72	67	48
45°	21	22	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°	1824.4	1824.4	1824.4	1824.4	1824.4
1°	1821.3	1808.3	1806.4	1823.2	1819.4
2°	1806.8	1794.5	1792.6	1809.4	1806.0
3°	1790.7	1779.5	1775.7	1793.3	1791.0
4°	1769.2	1758.9	1755.4	1773.0	1771.1
5°	1739.3	1728.6	1726.3	1743.5	1742.0
6°	1702.5	1693.7	1689.5	1706.7	1703.7
7°	1656.5	1648.5	1643.9	1656.5	1658.0
8°	1596.7	1592.9	1587.5	1600.2	1600.2
9°	1533.1	1529.7	1523.9	1535.4	1535.4
10°	1464.9	1462.6	1455.7	1466.4	1466.4
11°	1390.1	1389.0	1384.0	1392.8	1392.8
12°	1311.6	1314.3	1309.7	1317.3	1314.6
13°	1233.0	1231.8	1232.2	1238.0	1233.8
14°	1144.1	1151.0	1152.1	1155.6	1149.1
15°	1059.0	1067.8	1065.9	1070.9	1062.4
16°	972.0	982.0	981.6	982.7	974.7
17°	890.7	896.5	896.9	895.7	885.7
18°	804.1	812.2	812.2	810.2	798.4
19°	719.4	725.5	729.8	725.5	711.7
20°	643.1	647.4	655.0	644.3	629.0
21°	569.9	573.8	580.3	567.6	550.8
22°	499.8	504.8	510.9	496.3	478.7
23°	434.3	445.7	448.0	428.1	413.2
24°	374.1	387.1	390.9	370.6	354.9
25°	320.4	335.0	343.8	320.0	304.3
26°	274.0	288.2	299.0	275.2	260.2
27°	233.4	248.4	259.5	237.2	223.1
28°	198.5	213.1	224.6	203.9	190.5
29°	172.5	180.9	192.4	175.2	162.9
30°	146.8	156.0	168.3	150.6	139.9
32.5°	100.8	105.8	115.4	104.6	96.2
35°	71.7	74.7	79.3	72.1	67.1
37.5°	51.0	52.5	55.2	51.0	48.3
40°	37.6	38.3	39.5	37.2	35.6
42.5°	28.0	28.4	28.4	27.6	26.8
45°	21.1	21.5	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)