

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: P283591

Luminaire Tested: **LDA2B109030D010 EU2B10FL409030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283591
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: LDA2B109030D010 EU2B10FL409030 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 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: 709.0 lumens
Efficiency: N/A
Efficacy: 70.9 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

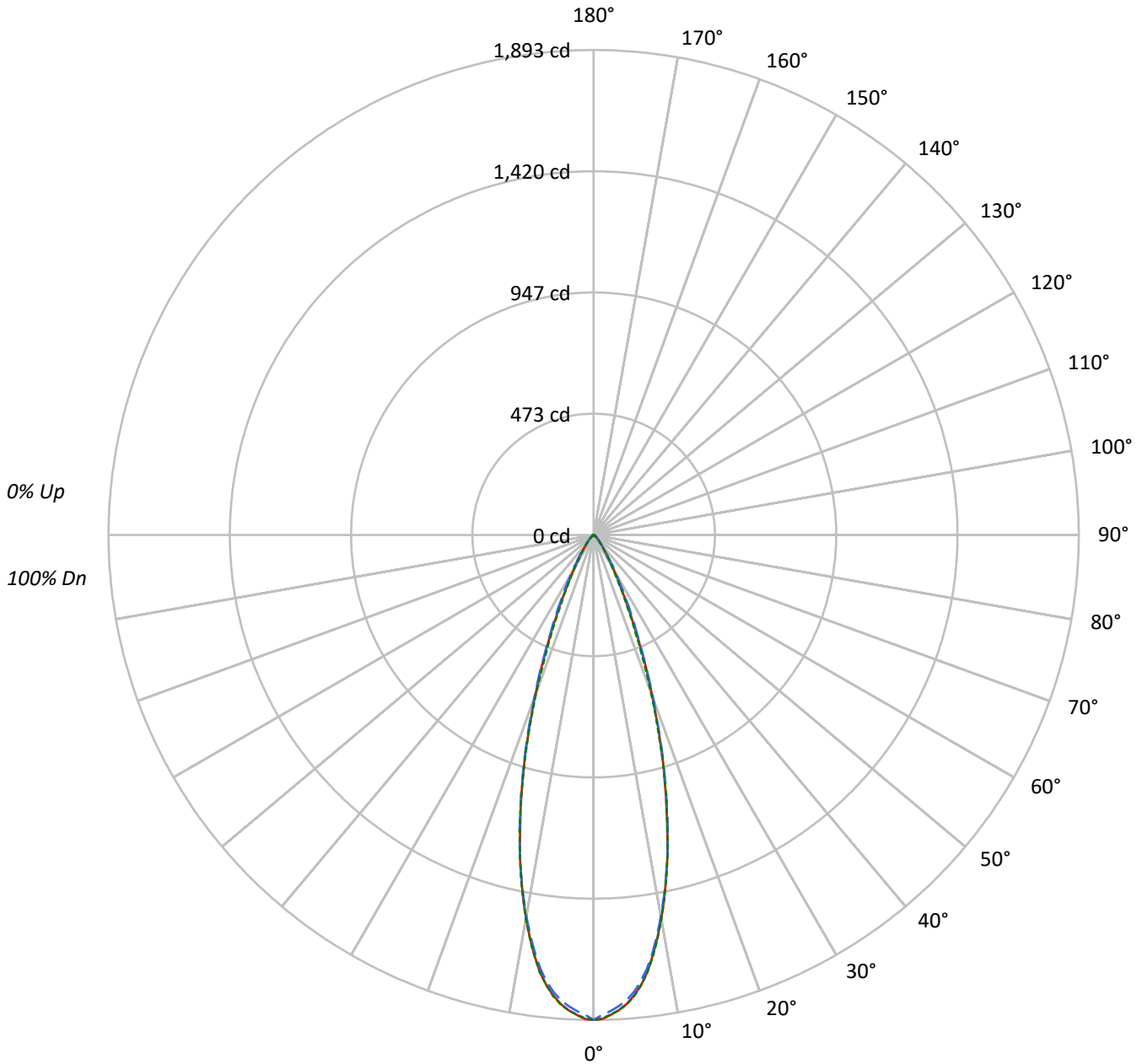
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	934033	934033	934033
5°	893870	887184	895257
10°	761529	756769	762330
15°	561280	564958	563119
20°	350401	356859	342684
25°	181001	194229	171910
30°	86763	99467	82718
35°	44810	49568	41919
40°	25117	26406	23829
45°	15280	15280	14722
50°	7906	9748	7906
55°	4129	6537	4473
60°	4736	4736	4736
65°	5137	5137	5137
70°	6347	5770	6347
75°	6100	6100	6100
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	23.0
10°-20°	299.1	42.2
20°-30°	162.2	22.9
30°-40°	52.1	7.3
40°-50°	17.7	2.5
50°-60°	6.2	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°	624.1	88.0
0°-40°	676.2	95.4
0°-60°	700.2	98.8
0°-90°	709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1893	1893	1893	1893	1893	
5°	1805	1794	1791	1809	1808	163
15°	1099	1108	1106	1111	1102	298
25°	332	348	357	332	316	159
35°	74	78	82	75	70	50
45°	22	22	22	22	21	17
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
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°	1893.2	1893.2	1893.2	1893.2	1893.2
1°	1890.0	1876.5	1874.5	1892.0	1888.0
2°	1874.9	1862.2	1860.2	1877.7	1874.1
3°	1858.2	1846.7	1842.7	1861.0	1858.6
4°	1835.9	1825.2	1821.6	1839.9	1837.9
5°	1804.9	1793.8	1791.4	1809.3	1807.7
6°	1766.7	1757.6	1753.2	1771.1	1767.9
7°	1719.0	1710.6	1705.9	1719.0	1720.6
8°	1657.0	1653.0	1647.4	1660.5	1660.5
9°	1590.9	1587.4	1581.4	1593.3	1593.3
10°	1520.1	1517.7	1510.6	1521.7	1521.7
11°	1442.6	1441.4	1436.2	1445.4	1445.4
12°	1361.0	1363.8	1359.1	1367.0	1364.2
13°	1279.5	1278.3	1278.7	1284.7	1280.3
14°	1187.2	1194.4	1195.6	1199.2	1192.4
15°	1098.9	1108.1	1106.1	1111.3	1102.5
16°	1008.6	1019.0	1018.6	1019.8	1011.4
17°	924.3	930.3	930.7	929.5	919.2
18°	834.4	842.8	842.8	840.8	828.5
19°	746.5	752.9	757.3	752.9	738.6
20°	667.4	671.8	679.7	668.6	652.7
21°	591.4	595.4	602.2	589.0	571.5
22°	518.6	523.8	530.2	515.1	496.8
23°	450.6	462.6	464.9	444.3	428.8
24°	388.2	401.7	405.7	384.6	368.3
25°	332.5	347.6	356.8	332.1	315.8
26°	284.4	299.1	310.2	285.6	270.1
27°	242.2	257.7	269.3	246.2	231.5
28°	206.0	221.1	233.1	211.6	197.7
29°	179.0	187.7	199.7	181.8	169.0
30°	152.3	161.9	174.6	156.3	145.2
32.5°	104.6	109.8	119.7	108.6	99.8
35°	74.4	77.6	82.3	74.8	69.6
37.5°	52.9	54.5	57.3	52.9	50.1
40°	39.0	39.8	41.0	38.6	37.0
42.5°	29.0	29.4	29.4	28.6	27.8
45°	21.9	22.3	21.9	21.9	21.1
47.5°	15.9	17.1	16.7	16.7	15.5
50°	10.3	12.7	12.7	12.3	10.3
52.5°	6.4	8.8	9.9	8.8	6.8
55°	4.8	6.0	7.6	6.0	5.2
57.5°	4.8	4.8	5.6	4.8	4.8
60°	4.8	4.8	4.8	4.8	4.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.0	4.4	4.4
72.5°	4.0	4.0	3.6	4.0	3.6
75°	3.2	3.2	3.2	3.2	3.2
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°	4.8	4.8	4.8	4.8	4.8
65°	4.4	4.8	4.4	4.8	4.4



(END OF REPORT)