

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: P283696

Luminaire Tested: **LDA2B159727D010 EU2B15FL409727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283696
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: LDA2B159727D010 EU2B15FL409727 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 871.4 lumens
Efficiency: N/A
Efficacy: 61.8 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

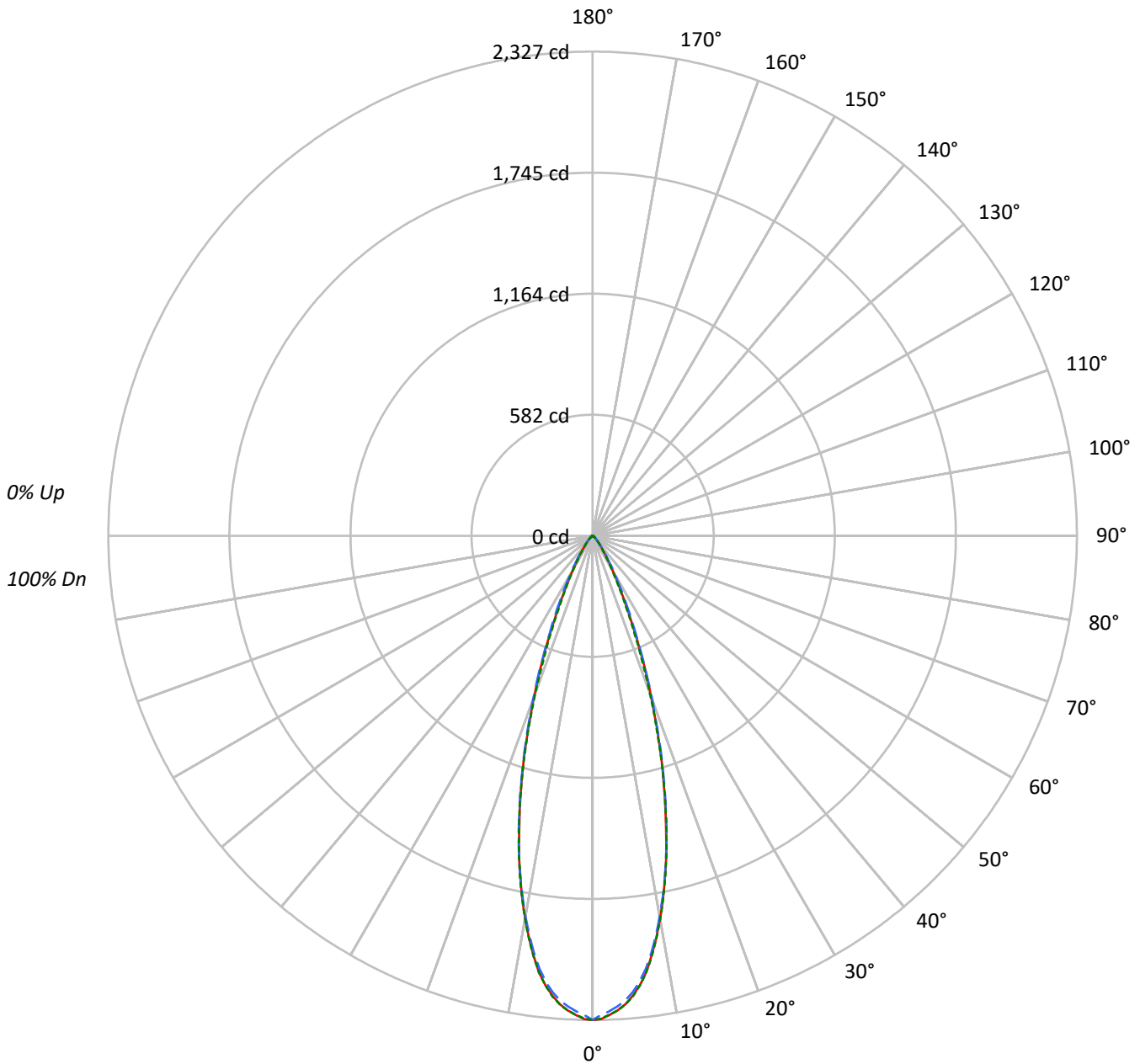
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1148102	1148102	1148102
5°	1098704	1090483	1100437
10°	936067	930206	937069
15°	689942	694437	692190
20°	430678	438658	421227
25°	222482	238704	211322
30°	106645	122254	101632
35°	55049	60951	51555
40°	30849	32460	29304
45°	18769	18769	18071
50°	9748	11974	9748
55°	5075	7999	5505
60°	5822	5822	5822
65°	6304	6304	6304
70°	7789	7068	7789
75°	7434	7434	7434
80°	6819	6819	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	23.0
10°-20°	367.7	42.2
20°-30°	199.3	22.9
30°-40°	64.0	7.3
40°-50°	21.8	2.5
50°-60°	7.6	0.9
60°-70°	5.6	0.6
70°-80°	4.0	0.5
80°-90°	1.2	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°	767.2	88.0
0°-40°	831.1	95.4
0°-60°	860.6	98.8
0°-90°	871.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	871.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2327	2327	2327	2327	2327	
5°	2218	2205	2202	2224	2222	201
15°	1351	1362	1360	1366	1355	366
25°	409	427	438	408	388	196
35°	91	95	101	92	86	62
45°	27	27	27	27	26	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	6
75°	4	4	4	4	4	4
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°	2327.1	2327.1	2327.1	2327.1	2327.1
1°	2323.2	2306.5	2304.1	2325.6	2320.7
2°	2304.6	2288.9	2286.5	2308.0	2303.6
3°	2284.1	2269.9	2265.0	2287.5	2284.5
4°	2256.7	2243.5	2239.1	2261.6	2259.1
5°	2218.5	2204.9	2201.9	2223.9	2222.0
6°	2171.6	2160.4	2155.0	2177.0	2173.1
7°	2112.9	2102.7	2096.8	2112.9	2114.9
8°	2036.7	2031.8	2024.9	2041.1	2041.1
9°	1955.5	1951.1	1943.8	1958.5	1958.5
10°	1868.5	1865.6	1856.8	1870.5	1870.5
11°	1773.2	1771.7	1765.4	1776.6	1776.6
12°	1673.0	1676.4	1670.5	1680.3	1676.9
13°	1572.7	1571.3	1571.8	1579.1	1573.7
14°	1459.3	1468.1	1469.6	1474.0	1465.7
15°	1350.8	1362.0	1359.6	1365.9	1355.2
16°	1239.8	1252.5	1252.0	1253.5	1243.2
17°	1136.2	1143.5	1144.0	1142.5	1129.8
18°	1025.7	1035.9	1035.9	1033.5	1018.3
19°	917.6	925.5	930.8	925.5	907.9
20°	820.3	825.7	835.5	821.8	802.3
21°	727.0	731.9	740.2	724.0	702.5
22°	637.5	643.9	651.7	633.1	610.6
23°	553.9	568.6	571.5	546.1	527.0
24°	477.1	493.8	498.7	472.7	452.7
25°	408.7	427.3	438.5	408.2	388.2
26°	349.6	367.6	381.3	351.0	332.0
27°	297.7	316.8	331.0	302.6	284.5
28°	253.2	271.8	286.5	260.1	243.0
29°	220.0	230.8	245.4	223.4	207.8
30°	187.2	199.0	214.6	192.1	178.4
32.5°	128.6	134.9	147.2	133.5	122.7
35°	91.4	95.3	101.2	91.9	85.6
37.5°	65.0	67.0	70.4	65.0	61.6
40°	47.9	48.9	50.4	47.4	45.5
42.5°	35.7	36.2	36.2	35.2	34.2
45°	26.9	27.4	26.9	26.9	25.9
47.5°	19.6	21.0	20.5	20.5	19.1
50°	12.7	15.6	15.6	15.2	12.7
52.5°	7.8	10.8	12.2	10.8	8.3
55°	5.9	7.3	9.3	7.3	6.4
57.5°	5.9	5.9	6.8	5.9	5.9
60°	5.9	5.9	5.9	5.9	5.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.9	5.4	5.4
72.5°	4.9	4.9	4.4	4.9	4.4
75°	3.9	3.9	3.9	3.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.5	1.5	1.5	2.0	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.4	5.9	5.4	5.9	5.4



(END OF REPORT)