

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: P282304

Luminaire Tested: **LDA2B158040D010 EU2B15NFL258040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158040D010 EU2B15NFL258040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1375.4 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

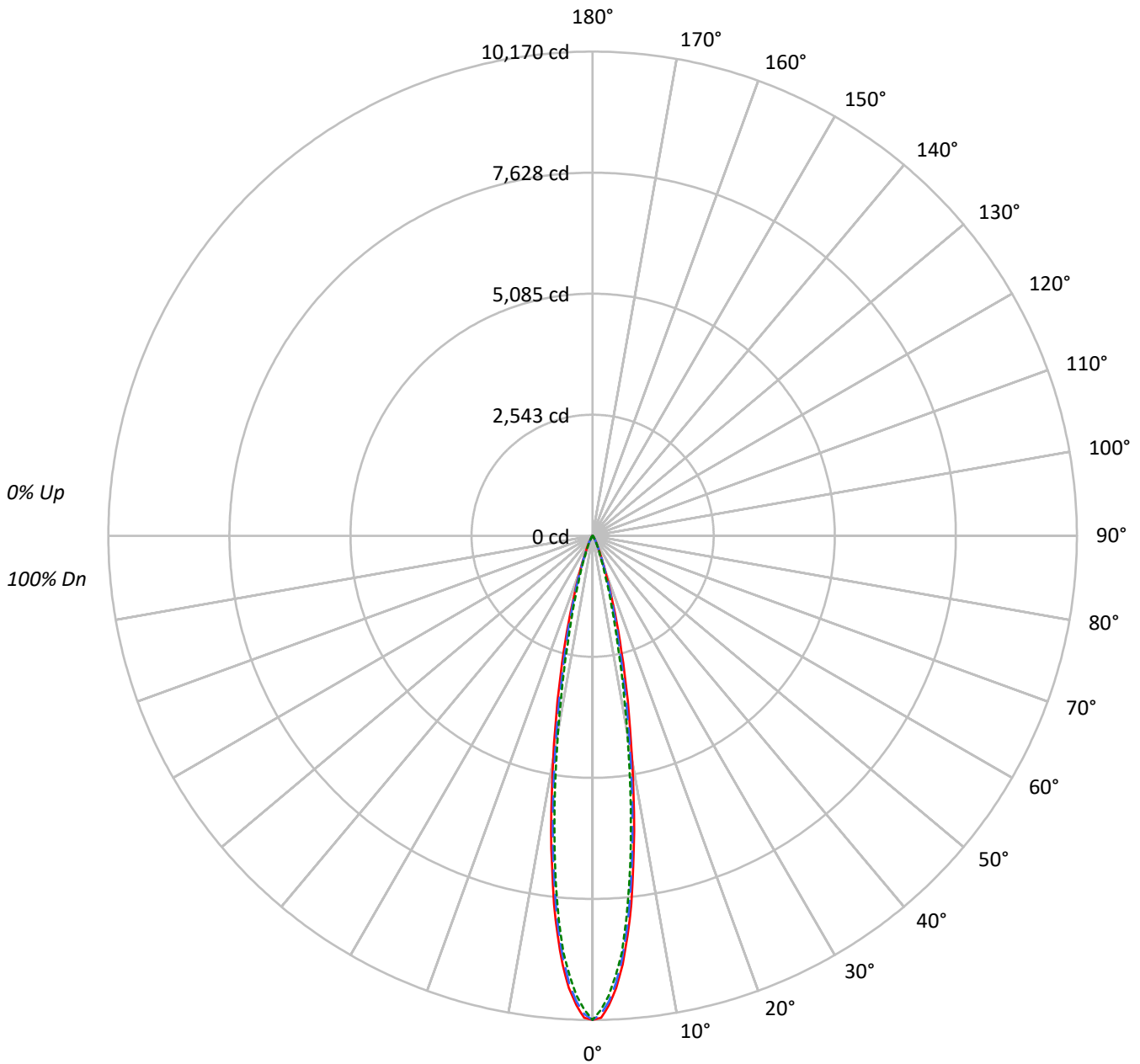
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5017243	5017243	5017243
5°	4174877	4098362	4015606
10°	2391343	2243957	2094266
15°	1063619	944610	791585
20°	385841	362792	287451
25°	148176	138323	119107
30°	63919	59418	52696
35°	30235	30235	25055
40°	15135	15650	12623
45°	8721	8233	7675
50°	5987	5449	5449
55°	4731	3355	4043
60°	3848	2368	3059
65°	2802	1868	2802
70°	2308	1154	2308
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.4	48.1
10°-20°	535.3	38.9
20°-30°	129.1	9.4
30°-40°	32.9	2.4
40°-50°	9.8	0.7
50°-60°	4.2	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
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°	1325.7	96.4
0°-40°	1358.6	98.8
0°-60°	1372.6	99.8
0°-90°	1375.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10170	10170	10170	10170	10170	
5°	8430	8352	8275	8203	8108	682
15°	2082	2033	1849	1666	1550	594
25°	272	274	254	231	219	141
35°	50	51	50	46	42	35
45°	12	12	12	11	11	11
55°	6	5	4	4	5	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10169.5	10169.5	10169.5	10169.5	10169.5
1°	10124.0	10053.4	10044.8	10088.7	9959.3
2°	9865.2	9815.0	9786.0	9811.8	9665.2
3°	9509.9	9461.2	9408.7	9409.5	9245.6
4°	9025.9	8987.5	8898.9	8872.2	8777.3
5°	8429.9	8352.2	8275.4	8203.2	8108.3
6°	7771.0	7670.6	7560.8	7453.4	7356.1
7°	6996.1	6929.5	6784.4	6637.7	6555.3
8°	6267.5	6160.0	5990.6	5807.1	5737.3
9°	5484.0	5407.1	5212.6	4999.3	4929.4
10°	4773.4	4693.4	4479.2	4241.6	4180.4
11°	4106.7	4031.4	3808.7	3559.2	3494.1
12°	3542.8	3436.1	3180.4	2963.9	2900.4
13°	2981.2	2908.3	2665.9	2451.8	2328.6
14°	2503.5	2443.2	2223.5	2035.3	1905.1
15°	2082.4	2033.0	1849.4	1665.9	1549.8
16°	1708.2	1677.7	1532.6	1355.3	1260.4
17°	1385.9	1357.7	1265.1	1102.0	1022.0
18°	1119.2	1115.3	1038.4	897.3	825.9
19°	920.8	919.2	848.6	730.2	671.4
20°	734.9	745.1	691.0	587.5	547.5
21°	599.2	604.7	561.6	483.1	447.1
22°	487.8	491.8	463.5	399.2	379.6
23°	400.0	402.4	378.8	331.0	313.7
24°	329.4	331.0	309.8	276.1	261.2
25°	272.2	273.7	254.1	230.6	218.8
26°	225.9	227.5	210.2	193.7	182.0
27°	187.5	190.6	173.3	163.1	150.6
28°	160.0	160.8	145.1	138.8	127.1
29°	131.0	135.7	122.4	116.9	108.2
30°	112.2	114.5	104.3	100.4	92.5
32.5°	74.5	76.1	71.4	68.2	62.0
35°	50.2	51.0	50.2	45.5	41.6
37.5°	34.5	34.5	35.3	29.8	28.2
40°	23.5	23.5	24.3	20.4	19.6
42.5°	17.3	17.3	16.5	14.1	14.1
45°	12.5	12.5	11.8	11.0	11.0
47.5°	10.2	9.4	8.6	8.6	8.6
50°	7.8	7.8	7.1	6.3	7.1
52.5°	6.3	6.3	5.5	5.5	5.5
55°	5.5	4.7	3.9	3.9	4.7
57.5°	3.9	3.9	3.1	3.1	3.9
60°	3.9	3.1	2.4	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.4	1.6	1.6	1.6	1.6
70°	1.6	1.6	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.1	2.4	2.4	2.4	2.4
65°	2.4	2.4	1.6	1.6	2.4



(END OF REPORT)