

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: P282310

Luminaire Tested: **LDA2B158050D010 EU2B15NFL258050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282310
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: LDA2B158050D010 EU2B15NFL258050 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: 1366.4 lumens
Efficiency: N/A
Efficacy: 96.9 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

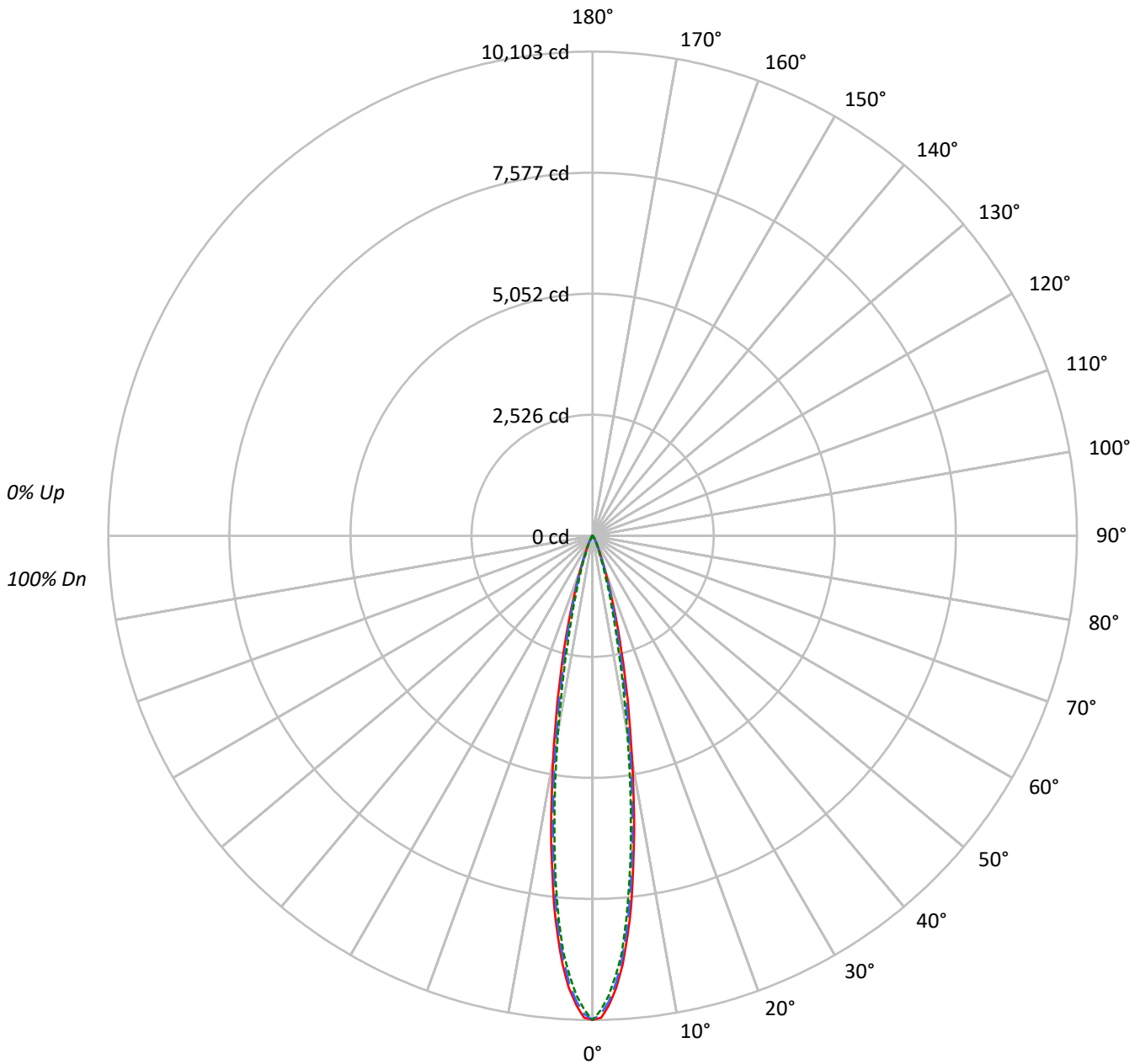
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4984533	4984533	4984533
5°	4147639	4071618	3989407
10°	2375713	2229328	2080640
15°	1056672	938481	786426
20°	383320	360429	285561
25°	147196	137452	118345
30°	63463	59019	52354
35°	30054	30054	24874
40°	15070	15586	12559
45°	8721	8163	7605
50°	5987	5373	5373
55°	4731	3355	4043
60°	3848	2269	3059
65°	2685	1868	2685
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°	657.1	48.1
10°-20°	531.8	38.9
20°-30°	128.2	9.4
30°-40°	32.7	2.4
40°-50°	9.8	0.7
50°-60°	4.2	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.1
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°	1317.1	96.4
0°-40°	1349.8	98.8
0°-60°	1363.7	99.8
0°-90°	1366.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10103	10103	10103	10103	10103	
5°	8375	8298	8221	8150	8055	677
15°	2069	2020	1837	1655	1540	590
25°	270	272	252	229	217	140
35°	50	51	50	45	41	34
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10103.2	10103.2	10103.2	10103.2	10103.2
1°	10058.0	9987.9	9979.3	10022.9	9894.4
2°	9800.9	9751.0	9722.2	9747.9	9602.2
3°	9447.9	9399.6	9347.4	9348.1	9185.3
4°	8967.1	8928.9	8840.9	8814.4	8720.1
5°	8374.9	8297.8	8221.4	8149.7	8055.4
6°	7720.4	7620.6	7511.5	7404.8	7308.2
7°	6950.5	6884.3	6740.1	6594.4	6512.6
8°	6226.6	6119.9	5951.6	5769.2	5699.9
9°	5448.2	5371.8	5178.6	4966.7	4897.3
10°	4742.2	4662.8	4450.0	4213.9	4153.2
11°	4079.9	4005.1	3783.8	3536.0	3471.4
12°	3519.7	3413.7	3159.7	2944.6	2881.5
13°	2961.8	2889.3	2648.5	2435.8	2313.5
14°	2487.2	2427.2	2209.0	2022.0	1892.7
15°	2068.8	2019.7	1837.4	1655.0	1539.7
16°	1697.1	1666.7	1522.6	1346.5	1252.2
17°	1376.9	1348.8	1256.9	1094.8	1015.3
18°	1111.9	1108.0	1031.7	891.4	820.5
19°	914.8	913.2	843.1	725.4	667.0
20°	730.1	740.2	686.5	583.6	543.9
21°	595.3	600.8	557.9	480.0	444.1
22°	484.7	488.6	460.5	396.6	377.1
23°	397.4	399.7	376.4	328.8	311.7
24°	327.3	328.8	307.8	274.3	259.5
25°	270.4	271.9	252.5	229.1	217.4
26°	224.4	226.0	208.8	192.5	180.8
27°	186.2	189.3	172.2	162.1	149.6
28°	159.0	159.7	144.2	137.9	126.2
29°	130.1	134.8	121.6	116.1	107.5
30°	111.4	113.8	103.6	99.7	91.9
32.5°	74.0	75.6	70.9	67.8	61.6
35°	49.9	50.6	49.9	45.2	41.3
37.5°	34.3	34.3	35.1	29.6	28.1
40°	23.4	23.4	24.2	20.3	19.5
42.5°	17.1	17.1	16.4	14.0	14.0
45°	12.5	12.5	11.7	10.9	10.9
47.5°	10.1	9.4	8.6	8.6	8.6
50°	7.8	7.8	7.0	6.2	7.0
52.5°	6.2	6.2	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	2.3	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	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	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.6	1.6	2.3



(END OF REPORT)