

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: P282709

Luminaire Tested: **LDA2B158030D010 EU2B15NFL258030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282709
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: LDA2B158030D010 EU2B15NFL258030 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1220.4 lumens
Efficiency: N/A
Efficacy: 86.6 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

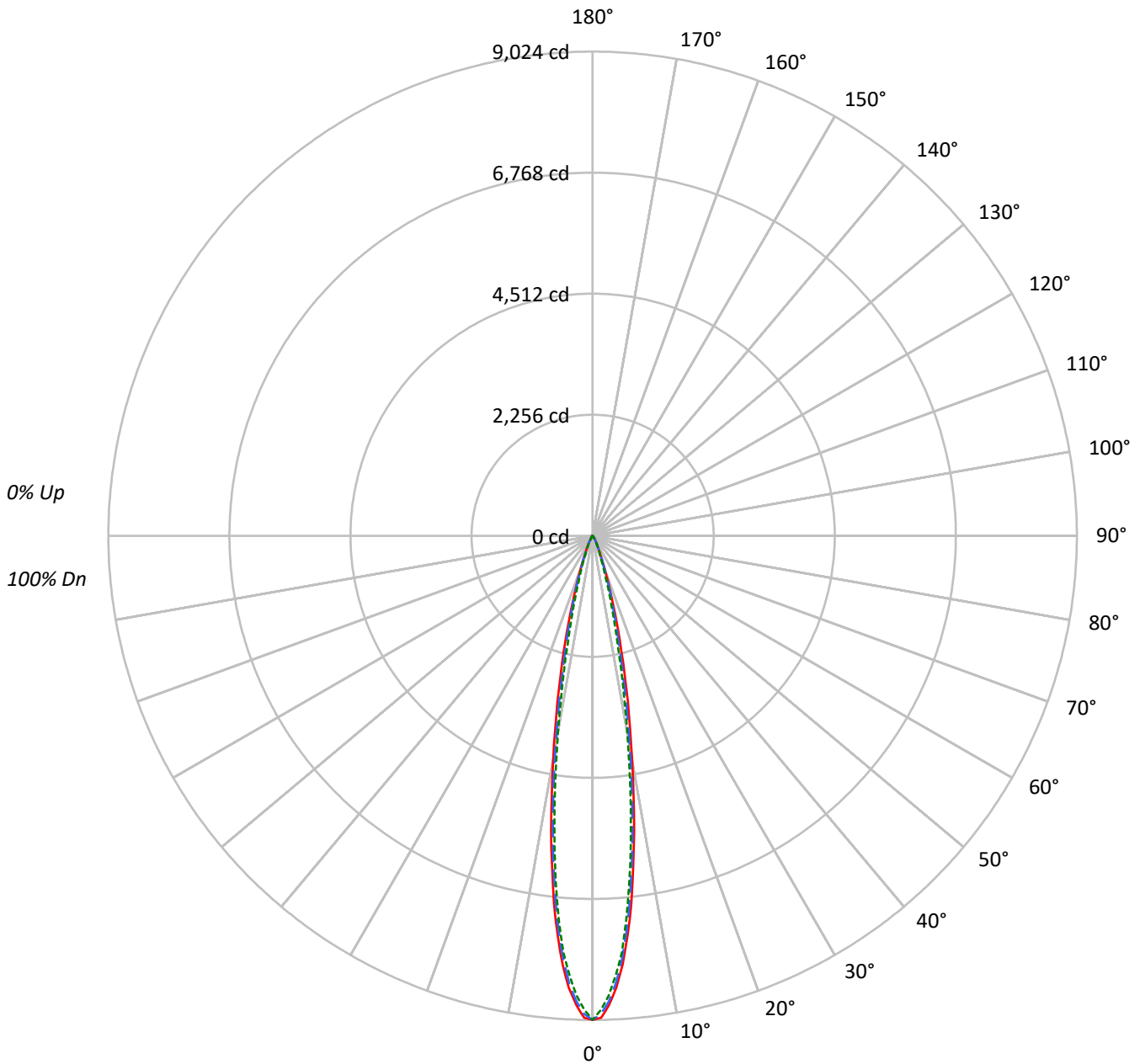
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282709

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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°	4452097	4452097	4452097
5°	3704591	3636693	3563297
10°	2121970	1991216	1858358
15°	943793	838218	702405
20°	342369	321945	255057
25°	131464	122754	105716
30°	56684	52753	46771
35°	26802	26802	22224
40°	13460	13911	11206
45°	7745	7256	6768
50°	5373	4835	4835
55°	4215	3011	3613
60°	3454	2072	2763
65°	2452	1634	2452
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.9	48.1
10°-20°	475.0	38.9
20°-30°	114.5	9.4
30°-40°	29.2	2.4
40°-50°	8.7	0.7
50°-60°	3.7	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1176.4	96.4
0°-40°	1205.6	98.8
0°-60°	1218.0	99.8
0°-90°	1220.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1220.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9024	9024	9024	9024	9024	
5°	7480	7411	7343	7279	7195	605
15°	1848	1804	1641	1478	1375	527
25°	242	243	226	205	194	125
35°	44	45	44	40	37	31
45°	11	11	10	10	10	9
55°	5	4	4	4	4	4
65°	2	2	1	1	2	2
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°	9024.0	9024.0	9024.0	9024.0	9024.0
1°	8983.6	8921.0	8913.3	8952.3	8837.5
2°	8754.0	8709.4	8683.7	8706.6	8576.5
3°	8438.7	8395.5	8348.9	8349.6	8204.1
4°	8009.3	7975.2	7896.5	7872.9	7788.6
5°	7480.3	7411.4	7343.2	7279.2	7195.0
6°	6895.7	6806.6	6709.2	6613.8	6527.5
7°	6208.1	6148.9	6020.2	5890.0	5816.9
8°	5561.5	5466.2	5315.8	5153.0	5091.0
9°	4866.2	4798.0	4625.4	4436.1	4374.2
10°	4235.7	4164.7	3974.7	3763.8	3709.5
11°	3644.1	3577.3	3379.6	3158.3	3100.6
12°	3143.7	3049.1	2822.2	2630.1	2573.7
13°	2645.4	2580.7	2365.6	2175.6	2066.3
14°	2221.5	2168.0	1973.1	1806.1	1690.5
15°	1847.8	1804.0	1641.1	1478.2	1375.2
16°	1515.8	1488.7	1359.9	1202.6	1118.4
17°	1229.8	1204.7	1122.6	977.8	906.9
18°	993.2	989.7	921.5	796.2	732.9
19°	817.1	815.7	753.0	648.0	595.8
20°	652.1	661.2	613.2	521.3	485.8
21°	531.7	536.6	498.3	428.7	396.7
22°	432.9	436.4	411.3	354.3	336.9
23°	354.9	357.0	336.2	293.7	278.4
24°	292.3	293.7	274.9	245.0	231.8
25°	241.5	242.9	225.5	204.6	194.2
26°	200.4	201.8	186.5	171.9	161.5
27°	166.3	169.1	153.8	144.8	133.6
28°	142.0	142.7	128.8	123.2	112.7
29°	116.2	120.4	108.6	103.7	96.0
30°	99.5	101.6	92.6	89.1	82.1
32.5°	66.1	67.5	63.3	60.5	55.0
35°	44.5	45.2	44.5	40.4	36.9
37.5°	30.6	30.6	31.3	26.4	25.1
40°	20.9	20.9	21.6	18.1	17.4
42.5°	15.3	15.3	14.6	12.5	12.5
45°	11.1	11.1	10.4	9.7	9.7
47.5°	9.0	8.4	7.7	7.7	7.7
50°	7.0	7.0	6.3	5.6	6.3
52.5°	5.6	5.6	4.9	4.9	4.9
55°	4.9	4.2	3.5	3.5	4.2
57.5°	3.5	3.5	2.8	2.8	3.5
60°	3.5	2.8	2.1	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.8	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)