

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: P282256

Luminaire Tested: **LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282256
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: LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 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: 839.9 lumens
Efficiency: N/A
Efficacy: 84.0 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

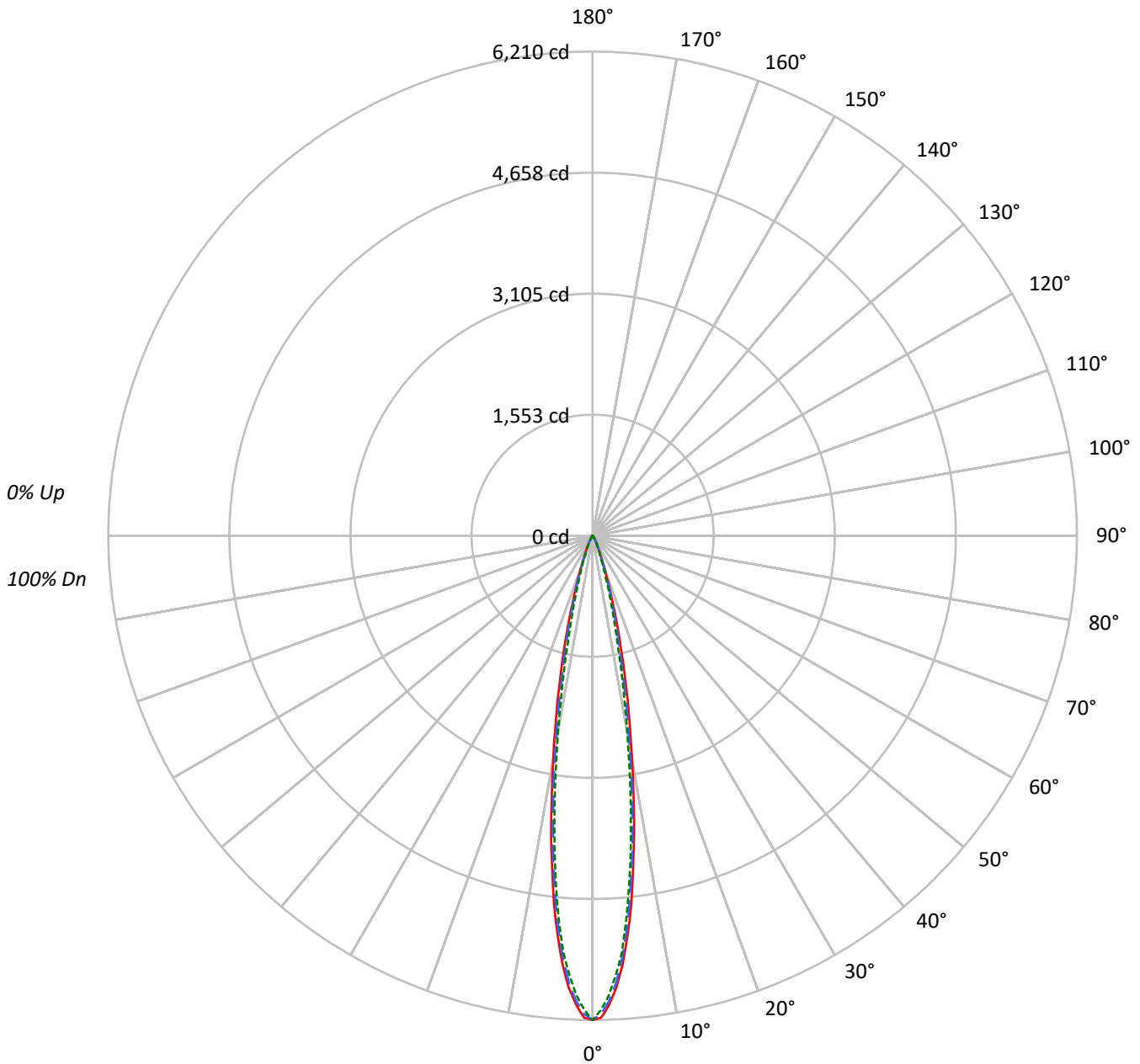
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282256

CATALOG NUMBER: LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P282256

CATALOG NUMBER: LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MMS

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°	3063974	3063974	3063974
5°	2549528	2502777	2452262
10°	1460335	1370361	1278933
15°	649541	576859	483440
20°	235631	221560	175516
25°	90473	84485	72727
30°	39023	36289	32187
35°	18490	18490	15298
40°	9274	9532	7728
45°	5372	5024	4675
50°	3684	3300	3300
55°	2925	2064	2494
60°	2368	1381	1875
65°	1634	1167	1634
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282256

CATALOG NUMBER: LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.9	48.1
10°-20°	326.9	38.9
20°-30°	78.8	9.4
30°-40°	20.1	2.4
40°-50°	6.0	0.7
50°-60°	2.6	0.3
60°-70°	1.2	0.1
70°-80°	0.4	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°	809.6	96.4
0°-40°	829.7	98.8
0°-60°	838.3	99.8
0°-90°	839.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6210	6210	6210	6210	6210	
5°	5148	5101	5054	5010	4952	416
15°	1272	1242	1129	1017	946	363
25°	166	167	155	141	134	86
35°	31	31	31	28	25	21
45°	8	8	7	7	7	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P282256

CATALOG NUMBER: LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6210.4	6210.4	6210.4	6210.4	6210.4
1°	6182.6	6139.5	6134.2	6161.0	6082.0
2°	6024.5	5993.9	5976.1	5992.0	5902.4
3°	5807.5	5777.9	5745.8	5746.2	5646.1
4°	5512.0	5488.6	5434.4	5418.1	5360.2
5°	5148.0	5100.6	5053.6	5009.6	4951.6
6°	4745.7	4684.4	4617.3	4551.7	4492.3
7°	4272.4	4231.7	4143.1	4053.5	4003.3
8°	3827.5	3761.9	3658.4	3546.3	3503.7
9°	3349.0	3302.0	3183.3	3053.0	3010.3
10°	2915.0	2866.2	2735.4	2590.3	2552.9
11°	2507.9	2461.9	2325.9	2173.6	2133.8
12°	2163.5	2098.4	1942.2	1810.0	1771.2
13°	1820.6	1776.0	1628.0	1497.3	1422.1
14°	1528.9	1492.0	1357.9	1242.9	1163.4
15°	1271.7	1241.5	1129.4	1017.3	946.5
16°	1043.2	1024.5	935.9	827.7	769.7
17°	846.3	829.1	772.6	673.0	624.1
18°	683.5	681.1	634.2	547.9	504.4
19°	562.3	561.4	518.2	445.9	410.0
20°	448.8	455.0	422.0	358.8	334.3
21°	365.9	369.3	342.9	295.0	273.0
22°	297.9	300.3	283.1	243.8	231.8
23°	244.3	245.7	231.3	202.1	191.6
24°	201.2	202.1	189.2	168.6	159.5
25°	166.2	167.2	155.2	140.8	133.6
26°	137.9	138.9	128.4	118.3	111.1
27°	114.5	116.4	105.9	99.6	92.0
28°	97.7	98.2	88.6	84.8	77.6
29°	80.0	82.9	74.7	71.4	66.1
30°	68.5	69.9	63.7	61.3	56.5
32.5°	45.5	46.5	43.6	41.7	37.8
35°	30.7	31.1	30.7	27.8	25.4
37.5°	21.1	21.1	21.6	18.2	17.2
40°	14.4	14.4	14.8	12.5	12.0
42.5°	10.5	10.5	10.1	8.6	8.6
45°	7.7	7.7	7.2	6.7	6.7
47.5°	6.2	5.7	5.3	5.3	5.3
50°	4.8	4.8	4.3	3.8	4.3
52.5°	3.8	3.8	3.4	3.4	3.4
55°	3.4	2.9	2.4	2.4	2.9
57.5°	2.4	2.4	1.9	1.9	2.4
60°	2.4	1.9	1.4	1.9	1.9



TEST NUMBER: P282256

CATALOG NUMBER: LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	1.9	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.0	1.0	1.4



(END OF REPORT)