

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: P282346

Luminaire Tested: **LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282346
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: LDA2B159050D010 EU2B15NFL259050 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: 1148.2 lumens
Efficiency: N/A
Efficacy: 81.4 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

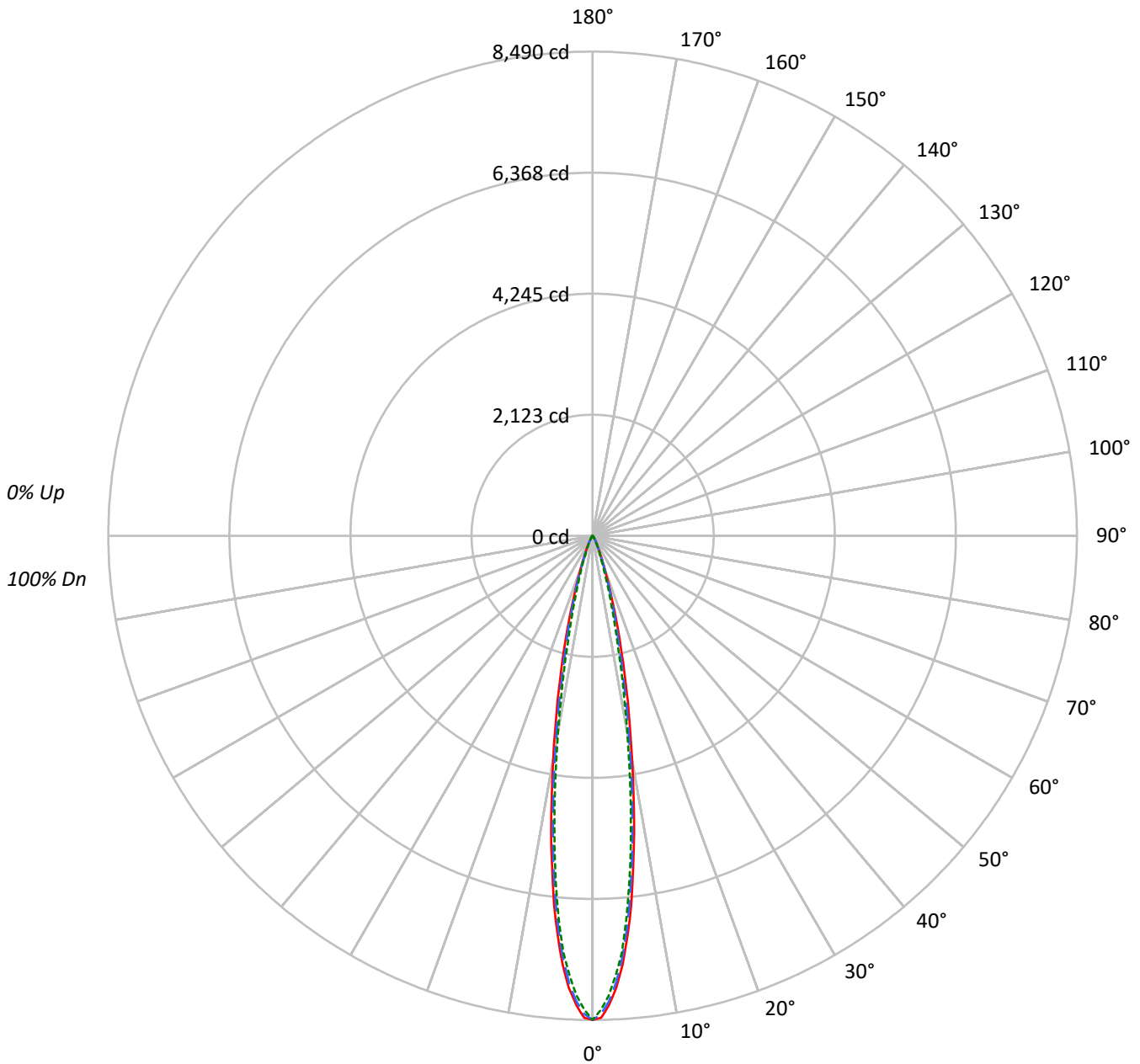
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282346

CATALOG NUMBER: LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P282346

CATALOG NUMBER: LDA2B159050D010 EU2B15NFL259050 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°	4188444	4188444	4188444
5°	3485197	3421310	3352273
10°	1996276	1873287	1748294
15°	887915	788571	660829
20°	322103	302834	239936
25°	123680	115460	99455
30°	53323	49620	44037
35°	25236	25236	20899
40°	12623	13074	10562
45°	7326	6838	6419
50°	4989	4528	4528
55°	3957	2838	3355
60°	3256	1973	2565
65°	2335	1518	2335
70°	1875	1010	1875
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282346

CATALOG NUMBER: LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.2	48.1
10°-20°	446.8	38.9
20°-30°	107.8	9.4
30°-40°	27.5	2.4
40°-50°	8.2	0.7
50°-60°	3.5	0.3
60°-70°	1.7	0.1
70°-80°	0.6	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°	1106.7	96.4
0°-40°	1134.2	98.8
0°-60°	1145.9	99.8
0°-90°	1148.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8490	8490	8490	8490	8490	
5°	7037	6972	6908	6848	6769	569
15°	1738	1697	1544	1391	1294	496
25°	227	228	212	192	183	117
35°	42	43	42	38	35	29
45°	10	10	10	9	9	9
55°	5	4	3	3	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



TEST NUMBER: P282346

CATALOG NUMBER: LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8489.6	8489.6	8489.6	8489.6	8489.6
1°	8451.6	8392.7	8385.4	8422.1	8314.1
2°	8235.5	8193.6	8169.4	8191.0	8068.5
3°	7938.9	7898.3	7854.4	7855.1	7718.3
4°	7534.9	7502.8	7428.9	7406.6	7327.4
5°	7037.3	6972.5	6908.3	6848.1	6768.9
6°	6487.3	6403.5	6311.8	6222.1	6140.9
7°	5840.4	5784.8	5663.6	5541.2	5472.4
8°	5232.1	5142.4	5001.0	4847.8	4789.5
9°	4578.0	4513.9	4351.5	4173.4	4115.1
10°	3984.8	3918.1	3739.3	3540.9	3489.8
11°	3428.3	3365.4	3179.5	2971.3	2916.9
12°	2957.5	2868.5	2655.0	2474.3	2421.3
13°	2488.7	2427.8	2225.5	2046.8	1944.0
14°	2090.0	2039.6	1856.2	1699.1	1590.4
15°	1738.4	1697.1	1543.9	1390.7	1293.8
16°	1426.1	1400.5	1279.4	1131.4	1052.2
17°	1157.0	1133.4	1056.1	919.9	853.1
18°	934.3	931.1	866.9	749.0	689.5
19°	768.7	767.4	708.4	609.6	560.5
20°	613.5	622.0	576.8	490.4	457.0
21°	500.2	504.8	468.8	403.3	373.2
22°	407.3	410.5	387.0	333.3	316.9
23°	333.9	335.9	316.2	276.3	261.9
24°	275.0	276.3	258.6	230.5	218.0
25°	227.2	228.5	212.1	192.5	182.7
26°	188.6	189.9	175.5	161.7	151.9
27°	156.5	159.1	144.7	136.2	125.7
28°	133.6	134.2	121.1	115.9	106.1
29°	109.3	113.3	102.1	97.6	90.4
30°	93.6	95.6	87.1	83.8	77.3
32.5°	62.2	63.5	59.6	57.0	51.7
35°	41.9	42.6	41.9	38.0	34.7
37.5°	28.8	28.8	29.5	24.9	23.6
40°	19.6	19.6	20.3	17.0	16.4
42.5°	14.4	14.4	13.7	11.8	11.8
45°	10.5	10.5	9.8	9.2	9.2
47.5°	8.5	7.9	7.2	7.2	7.2
50°	6.5	6.5	5.9	5.2	5.9
52.5°	5.2	5.2	4.6	4.6	4.6
55°	4.6	3.9	3.3	3.3	3.9
57.5°	3.3	3.3	2.6	2.6	3.3
60°	3.3	2.6	2.0	2.6	2.6



TEST NUMBER: P282346

CATALOG NUMBER: LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.3	1.3	1.3	1.3
70°	1.3	1.3	0.7	0.7	1.3
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



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	2.6	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.3	1.3	2.0



(END OF REPORT)