

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: P282728

Luminaire Tested: **LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282728
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: LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1019.5 lumens
Efficiency: N/A
Efficacy: 72.3 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

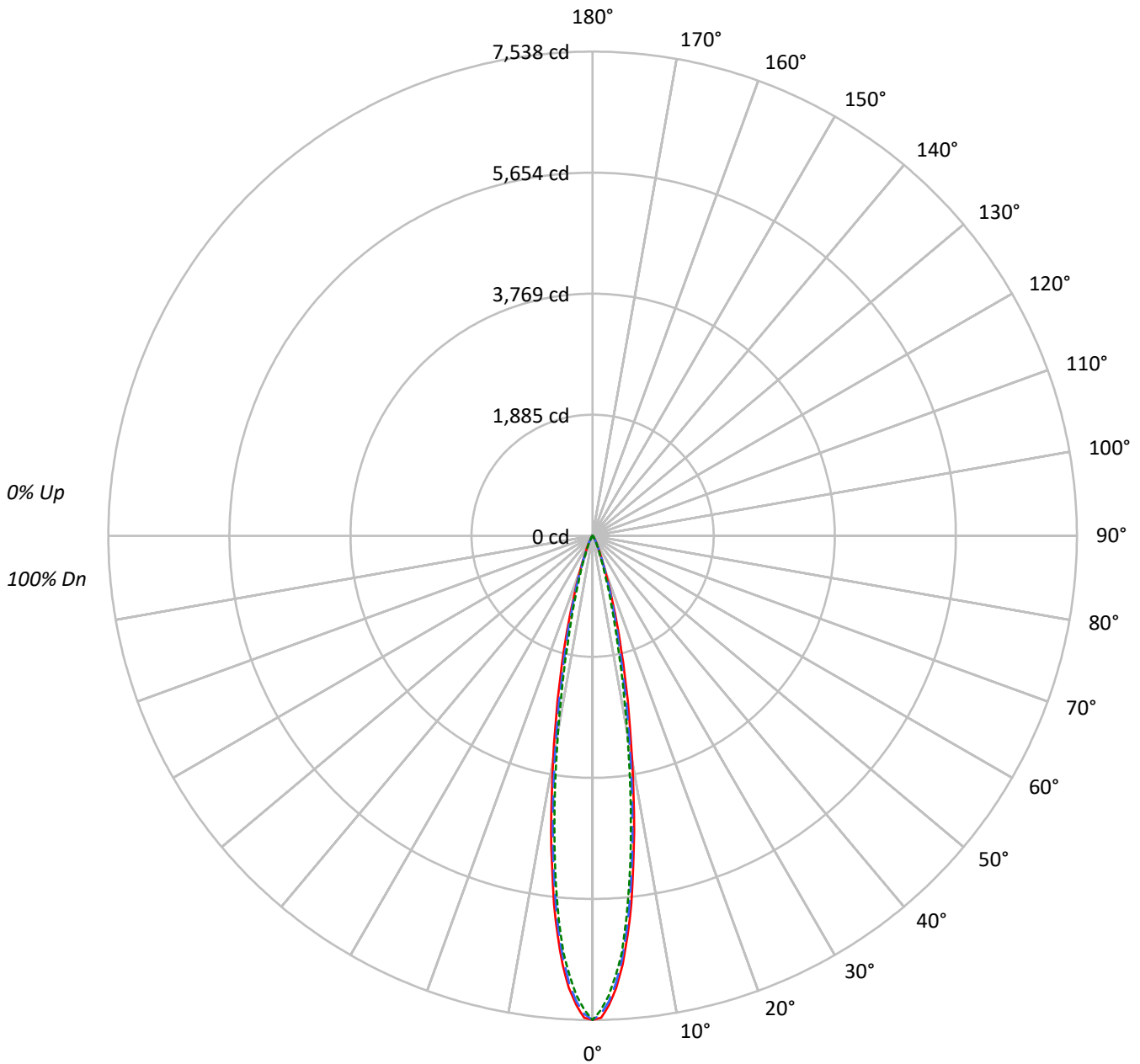
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282728

CATALOG NUMBER: LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P282728

CATALOG NUMBER: LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MW

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°	3719060	3719060	3719060
5°	3094646	3037940	2976579
10°	1772592	1663380	1552414
15°	788418	700209	586768
20°	286033	268918	213055
25°	109798	102558	88296
30°	47341	44037	39080
35°	22405	22405	18550
40°	11206	11593	9339
45°	6489	6070	5652
50°	4452	3991	3991
55°	3527	2494	3011
60°	2861	1677	2269
65°	1985	1401	1985
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282728

CATALOG NUMBER: LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.3	48.1
10°-20°	396.8	38.9
20°-30°	95.7	9.4
30°-40°	24.4	2.4
40°-50°	7.3	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	982.7	96.4
0°-40°	1007.1	98.8
0°-60°	1017.5	99.8
0°-90°	1019.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7538	7538	7538	7538	7538	
5°	6249	6191	6134	6081	6010	505
15°	1544	1507	1371	1235	1149	440
25°	202	203	188	171	162	104
35°	37	38	37	34	31	26
45°	9	9	9	8	8	8
55°	4	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: P282728

CATALOG NUMBER: LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7538.2	7538.2	7538.2	7538.2	7538.2
1°	7504.5	7452.1	7445.7	7478.3	7382.4
2°	7312.6	7275.4	7253.9	7273.1	7164.4
3°	7049.2	7013.2	6974.2	6974.8	6853.3
4°	6690.5	6662.0	6596.3	6576.6	6506.2
5°	6248.7	6191.1	6134.2	6080.7	6010.3
6°	5760.3	5685.9	5604.5	5524.9	5452.8
7°	5185.9	5136.5	5028.9	4920.2	4859.2
8°	4645.8	4566.2	4440.6	4304.5	4252.8
9°	4065.0	4008.0	3863.9	3705.7	3654.0
10°	3538.3	3479.0	3320.3	3144.1	3098.8
11°	3044.1	2988.3	2823.2	2638.3	2590.1
12°	2626.1	2547.0	2357.5	2197.0	2149.9
13°	2209.8	2155.8	1976.1	1817.4	1726.1
14°	1855.8	1811.0	1648.2	1508.7	1412.2
15°	1543.6	1506.9	1370.9	1234.9	1148.8
16°	1266.2	1243.6	1136.0	1004.6	934.3
17°	1027.3	1006.4	937.8	816.8	757.5
18°	829.6	826.7	769.7	665.1	612.2
19°	682.5	681.4	629.1	541.3	497.7
20°	544.8	552.3	512.2	435.5	405.8
21°	444.2	448.2	416.3	358.1	331.4
22°	361.6	364.5	343.6	295.9	281.4
23°	296.5	298.2	280.8	245.3	232.6
24°	244.2	245.3	229.6	204.6	193.6
25°	201.7	202.9	188.4	170.9	162.2
26°	167.4	168.6	155.8	143.6	134.9
27°	139.0	141.3	128.5	120.9	111.6
28°	118.6	119.2	107.6	102.9	94.2
29°	97.1	100.6	90.7	86.6	80.2
30°	83.1	84.9	77.3	74.4	68.6
32.5°	55.2	56.4	52.9	50.6	45.9
35°	37.2	37.8	37.2	33.7	30.8
37.5°	25.6	25.6	26.2	22.1	20.9
40°	17.4	17.4	18.0	15.1	14.5
42.5°	12.8	12.8	12.2	10.5	10.5
45°	9.3	9.3	8.7	8.1	8.1
47.5°	7.6	7.0	6.4	6.4	6.4
50°	5.8	5.8	5.2	4.7	5.2
52.5°	4.7	4.7	4.1	4.1	4.1
55°	4.1	3.5	2.9	2.9	3.5
57.5°	2.9	2.9	2.3	2.3	2.9
60°	2.9	2.3	1.7	2.3	2.3



TEST NUMBER: P282728

CATALOG NUMBER: LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.3	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.2	1.2	1.7



(END OF REPORT)