

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: P282129

Luminaire Tested: **LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282129
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: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 730.5 lumens
Efficiency: N/A
Efficacy: 104.4 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

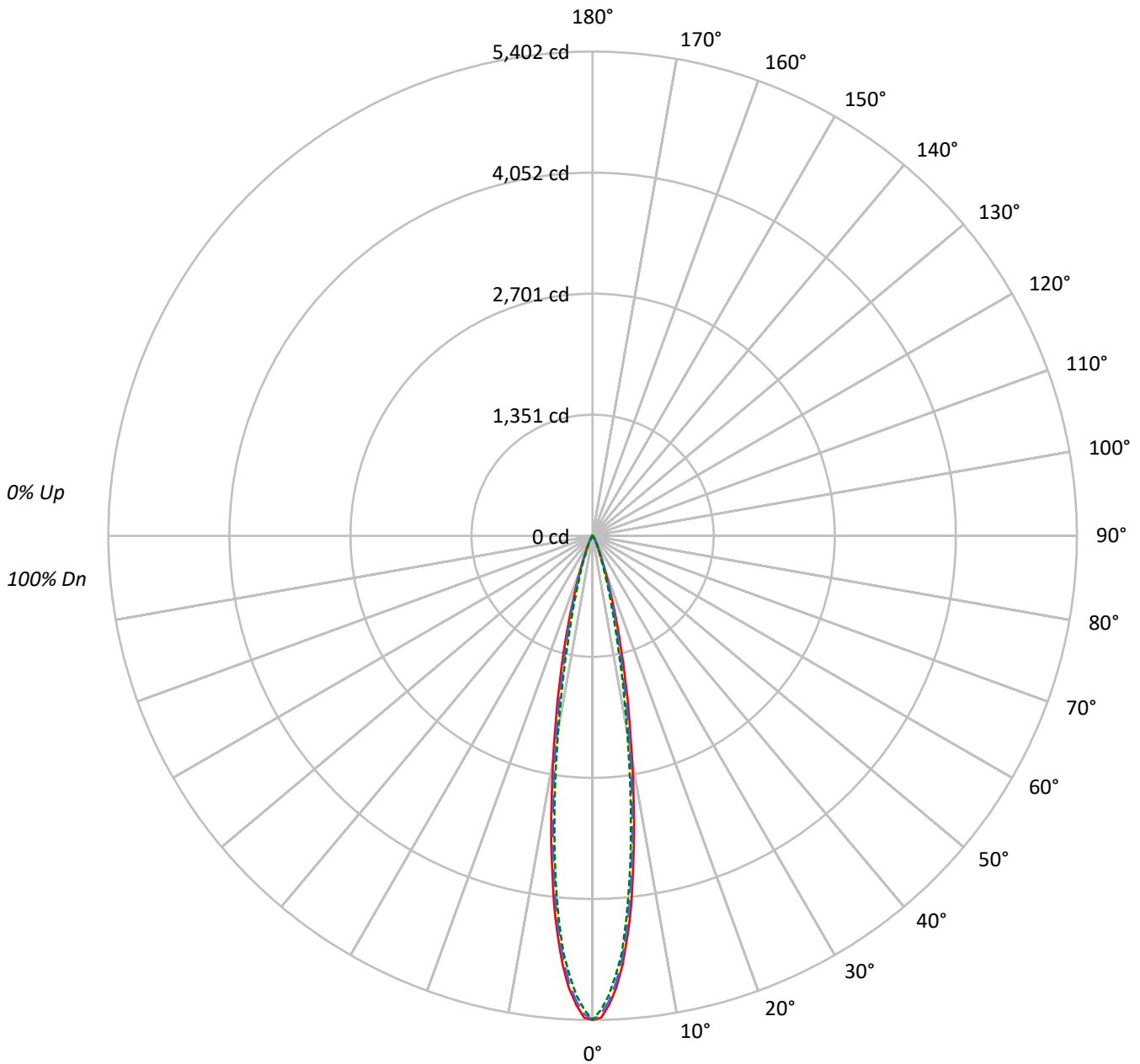
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282129

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282129

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MB

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°	2664894	2664894	2664894
5°	2217466	2176855	2132877
10°	1270166	1191914	1112360
15°	564958	501725	420462
20°	204917	192684	152677
25°	78715	73489	63255
30°	33953	31561	28029
35°	16081	16081	13310
40°	8050	8308	6698
45°	4675	4326	4047
50°	3224	2840	2840
55°	2494	1806	2150
60°	2072	1184	1677
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282129

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.3	48.1
10°-20°	284.3	38.9
20°-30°	68.6	9.4
30°-40°	17.5	2.4
40°-50°	5.2	0.7
50°-60°	2.2	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	704.2	96.4
0°-40°	721.6	98.8
0°-60°	729.1	99.8
0°-90°	730.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5402	5402	5402	5402	5402	
5°	4478	4436	4396	4357	4307	362
15°	1106	1080	982	885	823	315
25°	145	145	135	122	116	75
35°	27	27	27	24	22	18
45°	7	7	6	6	6	6
55°	3	2	2	2	2	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282129

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5401.5	5401.5	5401.5	5401.5	5401.5
1°	5377.4	5339.9	5335.3	5358.6	5289.9
2°	5239.9	5213.2	5197.8	5211.6	5133.7
3°	5051.2	5025.4	4997.4	4997.9	4910.8
4°	4794.1	4773.7	4726.7	4712.5	4662.1
5°	4477.5	4436.3	4395.5	4357.1	4306.7
6°	4127.6	4074.3	4016.0	3958.9	3907.2
7°	3716.0	3680.6	3603.5	3525.6	3481.9
8°	3329.0	3271.9	3181.9	3084.5	3047.4
9°	2912.8	2872.0	2768.7	2655.4	2618.3
10°	2535.4	2492.9	2379.2	2252.9	2220.4
11°	2181.3	2141.3	2023.0	1890.5	1855.9
12°	1881.7	1825.1	1689.3	1574.3	1540.6
13°	1583.5	1544.7	1416.0	1302.3	1236.9
14°	1329.8	1297.7	1181.0	1081.1	1011.9
15°	1106.1	1079.8	982.3	884.8	823.2
16°	907.3	891.1	814.0	719.9	669.5
17°	736.1	721.1	672.0	585.3	542.8
18°	594.5	592.4	551.6	476.6	438.7
19°	489.1	488.2	450.8	387.8	356.6
20°	390.3	395.8	367.0	312.0	290.8
21°	318.3	321.2	298.3	256.6	237.5
22°	259.1	261.2	246.2	212.0	201.6
23°	212.5	213.7	201.2	175.8	166.6
24°	175.0	175.8	164.6	146.6	138.7
25°	144.6	145.4	135.0	122.5	116.2
26°	120.0	120.8	111.6	102.9	96.6
27°	99.6	101.2	92.1	86.7	80.0
28°	85.0	85.4	77.1	73.7	67.5
29°	69.6	72.1	65.0	62.1	57.5
30°	59.6	60.8	55.4	53.3	49.2
32.5°	39.6	40.4	37.9	36.2	32.9
35°	26.7	27.1	26.7	24.2	22.1
37.5°	18.3	18.3	18.7	15.8	15.0
40°	12.5	12.5	12.9	10.8	10.4
42.5°	9.2	9.2	8.7	7.5	7.5
45°	6.7	6.7	6.2	5.8	5.8
47.5°	5.4	5.0	4.6	4.6	4.6
50°	4.2	4.2	3.7	3.3	3.7
52.5°	3.3	3.3	2.9	2.9	2.9
55°	2.9	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.7	1.7	2.1
60°	2.1	1.7	1.2	1.7	1.7



TEST NUMBER: P282129

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.7	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)