

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: P282130

Luminaire Tested: **LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282130
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 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: 730.9 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

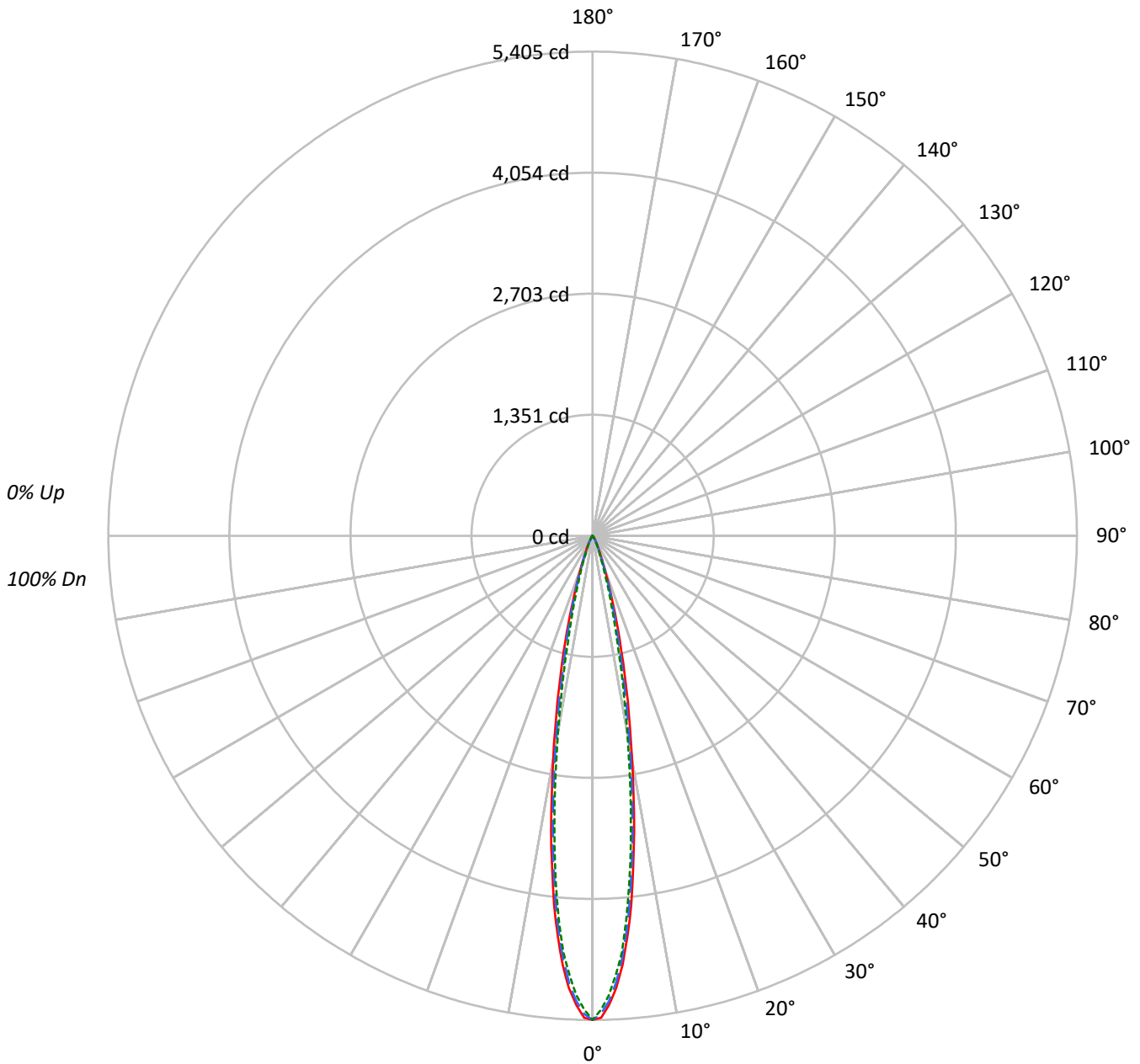
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282130

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P282130

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 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°	2666423	2666423	2666423
5°	2218753	2178093	2134116
10°	1270868	1192565	1113011
15°	565264	502032	420718
20°	205075	192789	152730
25°	78715	73544	63310
30°	33953	31561	28029
35°	16081	16081	13310
40°	8050	8308	6698
45°	4675	4396	4047
50°	3224	2917	2917
55°	2494	1806	2150
60°	2072	1283	1677
65°	1518	934	1518
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282130

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.5	48.1
10°-20°	284.5	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°	1.1	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°	704.6	96.4
0°-40°	722.1	98.8
0°-60°	729.5	99.8
0°-90°	730.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5405	5405	5405	5405	5405	
5°	4480	4439	4398	4360	4309	362
15°	1107	1080	983	885	824	316
25°	145	146	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: P282130

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5404.6	5404.6	5404.6	5404.6	5404.6
1°	5380.4	5342.9	5338.3	5361.7	5292.9
2°	5242.9	5216.2	5200.8	5214.5	5136.6
3°	5054.1	5028.2	5000.3	5000.7	4913.6
4°	4796.9	4776.5	4729.4	4715.2	4664.7
5°	4480.1	4438.8	4398.0	4359.6	4309.2
6°	4130.0	4076.6	4018.2	3961.1	3909.4
7°	3718.1	3682.7	3605.6	3527.6	3483.9
8°	3330.9	3273.8	3183.7	3086.2	3049.1
9°	2914.5	2873.6	2770.3	2656.9	2619.8
10°	2536.8	2494.3	2380.5	2254.2	2221.7
11°	2182.5	2142.5	2024.1	1891.6	1857.0
12°	1882.8	1826.1	1690.2	1575.2	1541.4
13°	1584.4	1545.6	1416.8	1303.0	1237.6
14°	1330.5	1298.4	1181.7	1081.7	1012.5
15°	1106.7	1080.4	982.9	885.3	823.7
16°	907.9	891.6	814.5	720.3	669.8
17°	736.5	721.5	672.3	585.6	543.1
18°	594.8	592.7	551.9	476.9	438.9
19°	489.4	488.5	451.0	388.1	356.8
20°	390.6	396.0	367.2	312.2	290.9
21°	318.5	321.4	298.5	256.8	237.6
22°	259.3	261.4	246.3	212.2	201.7
23°	212.6	213.8	201.3	175.9	166.7
24°	175.1	175.9	164.6	146.7	138.8
25°	144.6	145.5	135.1	122.5	116.3
26°	120.0	120.9	111.7	103.0	96.7
27°	99.6	101.3	92.1	86.7	80.0
28°	85.0	85.5	77.1	73.8	67.5
29°	69.6	72.1	65.0	62.1	57.5
30°	59.6	60.9	55.4	53.4	49.2
32.5°	39.6	40.4	37.9	36.3	32.9
35°	26.7	27.1	26.7	24.2	22.1
37.5°	18.3	18.3	18.8	15.8	15.0
40°	12.5	12.5	12.9	10.8	10.4
42.5°	9.2	9.2	8.8	7.5	7.5
45°	6.7	6.7	6.3	5.8	5.8
47.5°	5.4	5.0	4.6	4.6	4.6
50°	4.2	4.2	3.8	3.3	3.8
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	1.3	1.7	1.7



TEST NUMBER: P282130

CATALOG NUMBER: LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	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	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.8	0.8	1.3



(END OF REPORT)