

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: P170603

Luminaire Tested: **LDA4A13935D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26141)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A13935D010TE LAR15SP 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1263.7 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

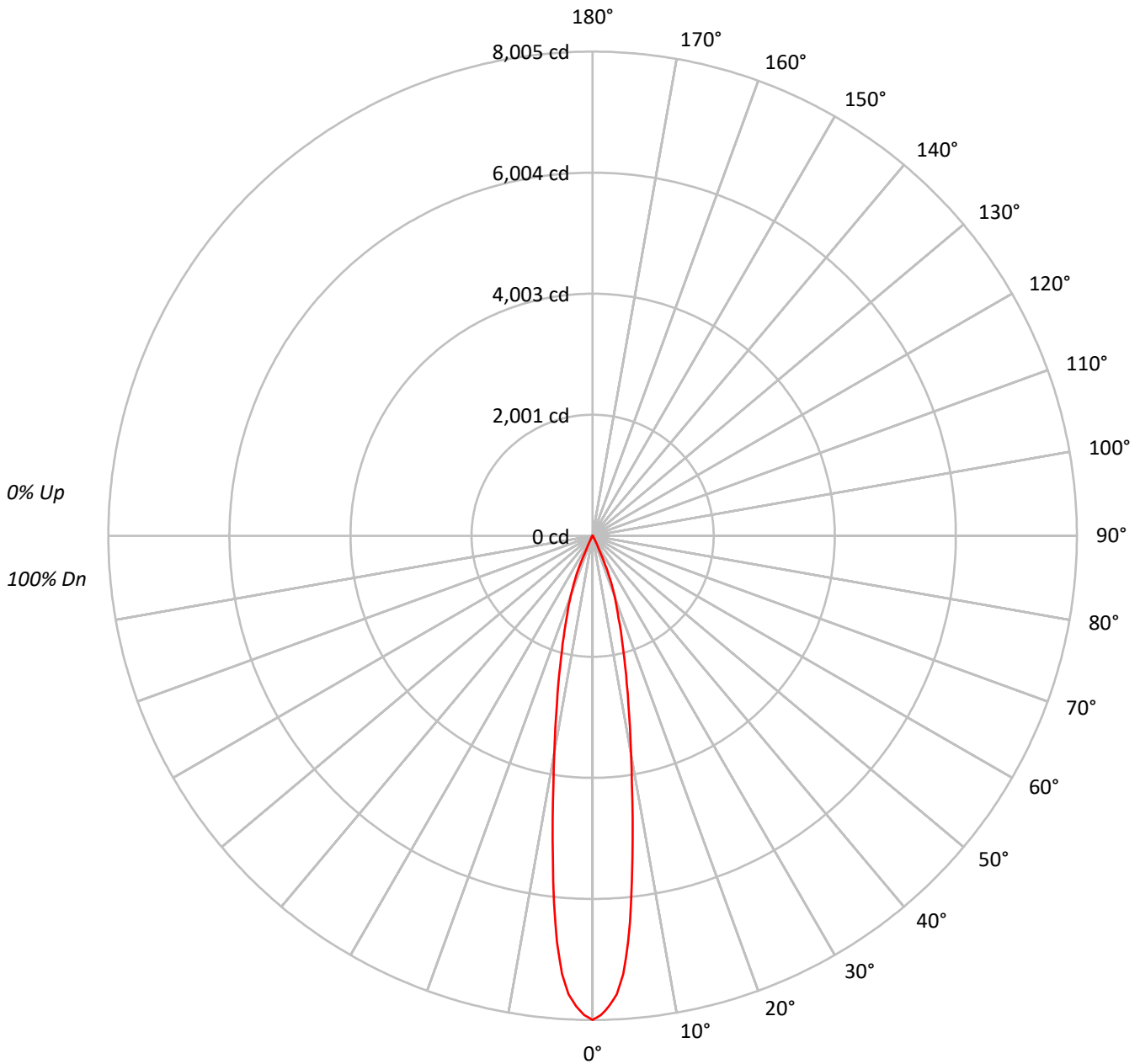
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170603

CATALOG NUMBER: LDA4A13935D010TE LAR15SP 4LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P170603

CATALOG NUMBER: LDA4A13935D010TE LAR15SP 4LFC1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92
4	106	101	97	94	104	100	97	94	98	95	93	96	94	92	94	92	91	90
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88
6	100	95	91	88	99	94	91	88	93	90	87	92	89	87	91	88	86	85
7	98	92	88	86	97	92	88	86	91	87	85	90	87	85	89	86	84	83
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	987382
5°	834847
10°	457507
15°	249749
20°	139124
25°	32146
30°	6224
35°	1792
40°	644
45°	227
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170603

CATALOG NUMBER: LDA4A13935D010TE LAR15SP 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.0	42.0
10°-20°	555.5	44.0
20°-30°	166.6	13.2
30°-40°	9.6	0.8
40°-50°	1.1	0.1
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	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°	1253.0	99.1
0°-40°	1262.6	99.9
0°-60°	1263.7	100.0
0°-90°	1263.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8005	
5°	6743	531
15°	1956	555
25°	236	167
35°	12	10
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170603

CATALOG NUMBER: LDA4A13935D010TE LAR15SP 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	8005.0
1°	7926.3
2°	7784.0
3°	7593.5
4°	7264.0
5°	6742.6
6°	6097.6
7°	5395.6
8°	4743.2
9°	4147.1
10°	3652.8
11°	3224.8
12°	2844.3
13°	2515.5
14°	2221.1
15°	1955.8
17.5°	1421.2
20°	1059.9
22.5°	698.7
25°	236.2
27.5°	82.0
30°	43.7
32.5°	21.8
35°	11.9
37.5°	6.6
40°	4.0
42.5°	2.0
45°	1.3
47.5°	0.7
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



TEST NUMBER: P170603

CATALOG NUMBER: LDA4A13935D010TE LAR15SP 4LFC1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)