

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: P1191933

Luminaire Tested: **LDA4A35940D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1191933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26142)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A35940D010TE LAR25NF 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

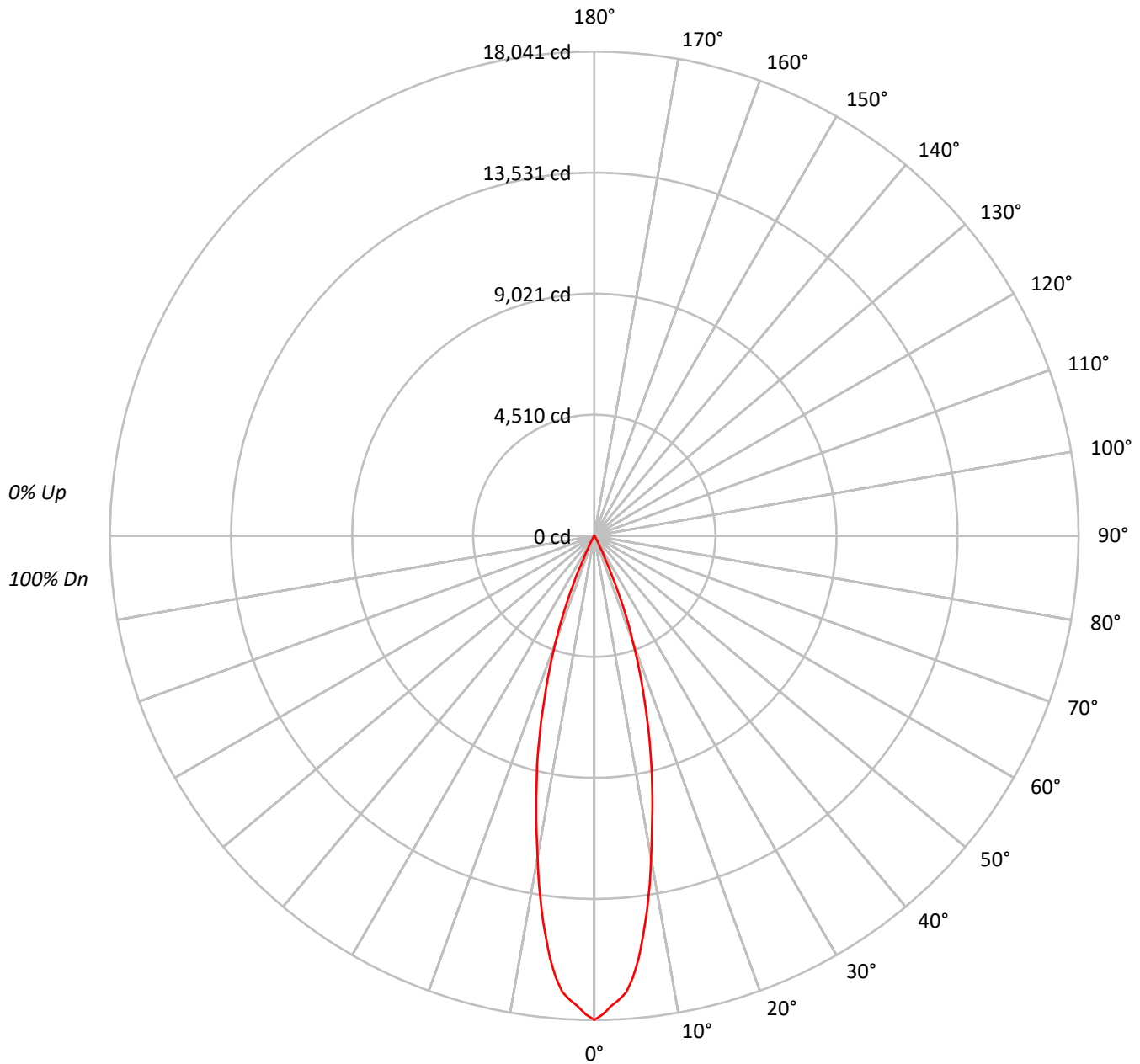
Lumens per Lamp: N/A
Luminaire Lumens: 4298.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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: P1191933

CATALOG NUMBER: LDA4A35940D010TE LAR25NF 4LFC1

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191933

CATALOG NUMBER: LDA4A35940D010TE LAR25NF 4LFC1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97	97	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	91	91
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	88	88
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	86	86
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	83	83
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	81	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	76	76
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	74	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2225303
5°	2043571
10°	1526540
15°	1016811
20°	550800
25°	131402
30°	30750
35°	8764
40°	3011
45°	1082
50°	403
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P1191933

CATALOG NUMBER: LDA4A35940D010TE LAR25NF 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1430.3	33.3
10°-20°	2156.8	50.2
20°-30°	658.5	15.3
30°-40°	47.5	1.1
40°-50°	5.5	0.1
50°-60°	0.2	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°	4245.7	98.8
0°-40°	4293.2	99.9
0°-60°	4298.9	100.0
0°-90°	4298.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18041	
5°	16505	###
15°	7963	2157
25°	966	659
35°	58	48
45°	6	5
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P1191933

CATALOG NUMBER: LDA4A35940D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	18041.2
1°	17837.8
2°	17545.0
3°	17325.0
4°	17044.7
5°	16504.8
6°	15825.9
7°	14976.6
8°	14100.4
9°	13166.0
10°	12188.1
11°	11255.8
12°	10402.4
13°	9584.3
14°	8795.4
15°	7962.7
17.5°	5981.9
20°	4196.2
22.5°	2618.3
25°	965.5
27.5°	390.3
30°	215.9
32.5°	107.9
35°	58.2
37.5°	33.2
40°	18.7
42.5°	10.4
45°	6.2
47.5°	2.1
50°	2.1
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

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P1191933
CATALOG NUMBER: LDA4A35940D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



85°	0.0
87.5°	0.0

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)