

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: P1191663

Luminaire Tested: **LDA4A20940D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

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

**Test Information**

Test Method: LM-41-14
Report Number: P1191663
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: LDA4A20940D010TE 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

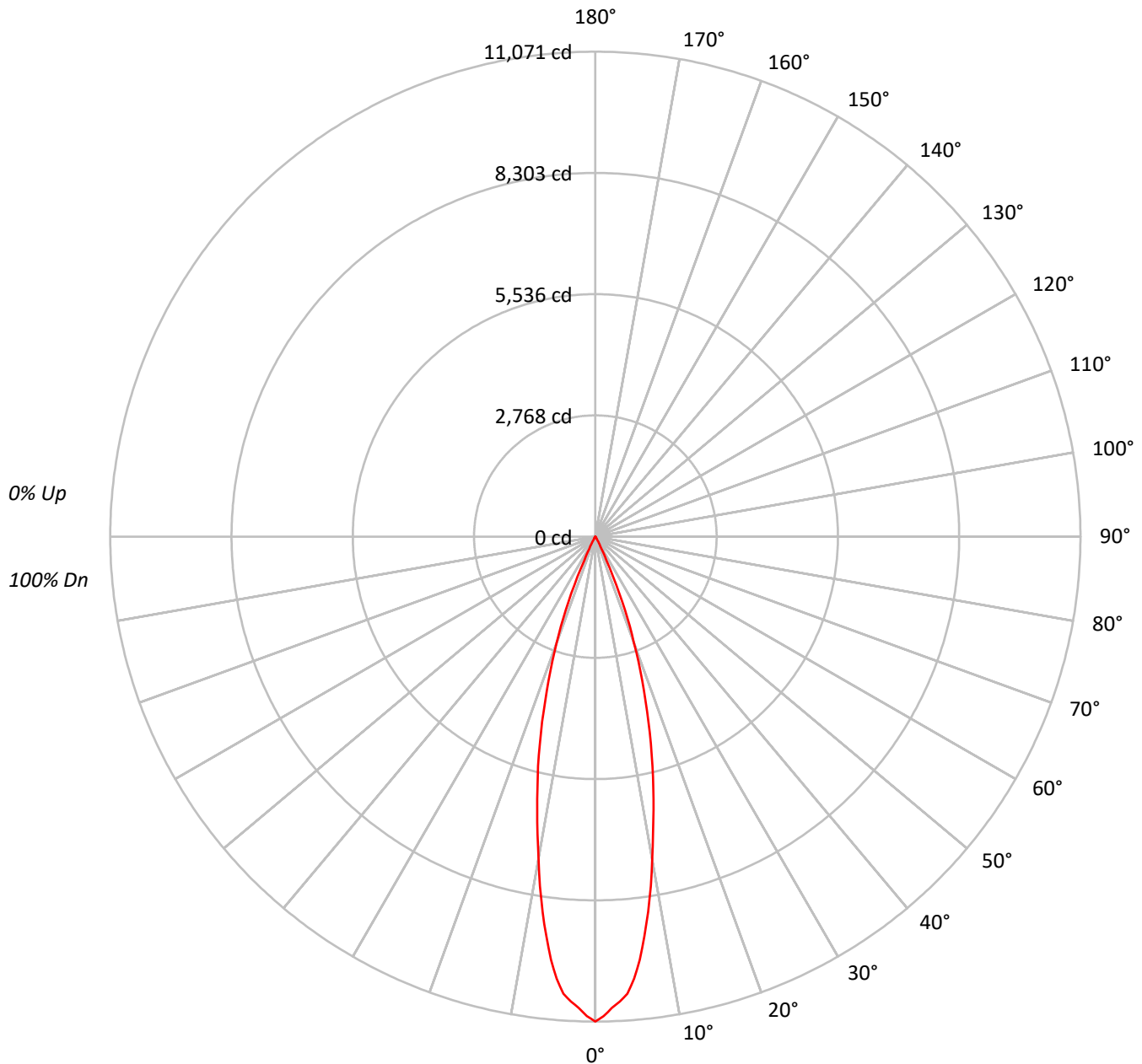
Lumens per Lamp: N/A
Luminaire Lumens: 2638.1 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1191663

CATALOG NUMBER: LDA4A20940D010TE LAR25NF 4LFC1

Luminous Intensity Polar Plot



TEST NUMBER: P1191663

CATALOG NUMBER: LDA4A20940D010TE 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	110	113	111	109	108	107	106	104		103	102	101		100
2	111	108	105	103	109	106	104	101	103	101	99		100	99	97		98
3	108	104	100	97	106	102	99	96	100	97	95		98	95	94		95
4	105	100	96	93	103	99	95	92	97	94	91		95	92	90		93
5	102	96	92	89	100	95	92	89	94	91	88		92	89	87		91
6	99	93	89	86	98	92	88	86	91	88	85		90	87	85		89
7	96	90	86	83	95	89	86	83	88	85	83		87	84	82		86
8	94	87	83	81	93	87	83	80	86	83	80		85	82	80		84
9	91	85	81	78	90	84	81	78	84	80	78		83	80	78		82
10	89	82	79	76	88	82	78	76	81	78	76		81	78	76		80

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1365584
5°	1254054
10°	936771
15°	623978
20°	338012
25°	80637
30°	18872
35°	5361
40°	1836
45°	663
50°	249
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P1191663

CATALOG NUMBER: LDA4A20940D010TE LAR25NF 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.7	33.3
10°-20°	1323.5	50.2
20°-30°	404.1	15.3
30°-40°	29.2	1.1
40°-50°	3.3	0.1
50°-60°	0.1	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°	2605.4	98.8
0°-40°	2634.6	99.9
0°-60°	2638.1	100.0
0°-90°	2638.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2638.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11071	
5°	10128	878
15°	4886	1324
25°	592	404
35°	36	29
45°	4	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P1191663

CATALOG NUMBER: LDA4A20940D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	11071.2
1°	10946.4
2°	10766.7
3°	10631.6
4°	10459.6
5°	10128.3
6°	9711.7
7°	9190.5
8°	8652.9
9°	8079.5
10°	7479.3
11°	6907.2
12°	6383.6
13°	5881.6
14°	5397.4
15°	4886.4
17.5°	3670.8
20°	2575.1
22.5°	1606.7
25°	592.5
27.5°	239.5
30°	132.5
32.5°	66.3
35°	35.6
37.5°	20.4
40°	11.4
42.5°	6.4
45°	3.8
47.5°	1.3
50°	1.3
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

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191663

CATALOG NUMBER: LDA4A20940D010TE 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)