

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: P1191632

Luminaire Tested: **LDA4A20930D010TE LAR35FL 4LAL1**

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: P1191632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26146)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A20930D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

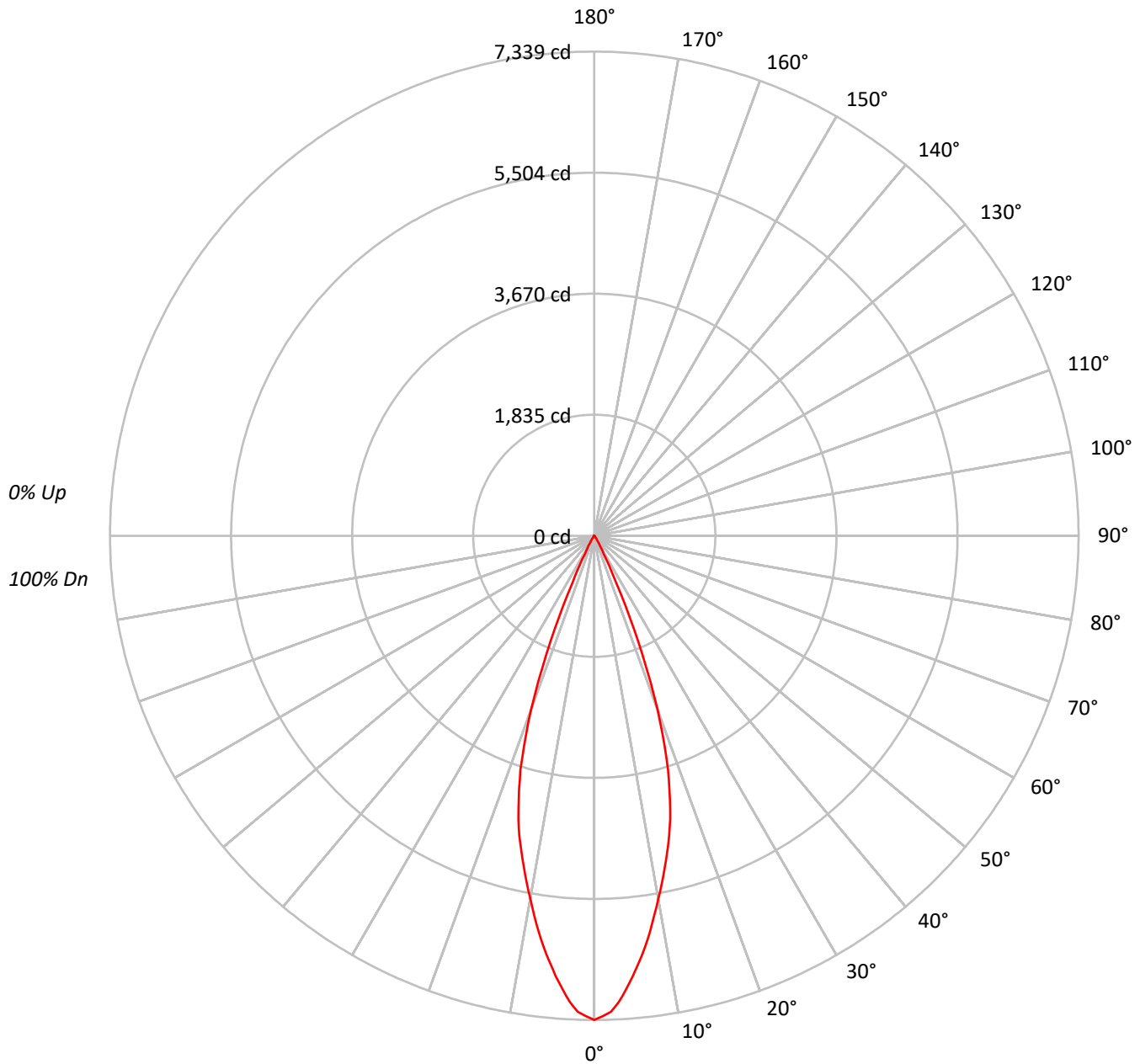
Lumens per Lamp: N/A
Luminaire Lumens: 2300.4 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P1191632

CATALOG NUMBER: LDA4A20930D010TE LAR35FL 4LAL1

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191632

CATALOG NUMBER: LDA4A20930D010TE LAR35FL 4LAL1

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	109	113	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	100	102	100	98		100	98	96		97
3	107	103	99	96	105	101	98	95	99	96	94		96	94	92		94
4	104	98	94	91	102	97	93	91	95	92	90		93	91	89		92
5	101	94	90	87	99	94	90	87	92	89	86		90	88	85		89
6	97	91	87	83	96	90	86	83	89	85	83		88	85	82		86
7	94	88	83	80	93	87	83	80	86	82	80		85	82	79		84
8	92	85	80	77	91	84	80	77	83	80	77		82	79	77		82
9	89	82	78	75	88	82	77	75	81	77	74		80	77	74		79
10	86	79	75	72	86	79	75	72	78	75	72		78	74	72		77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	905283
5°	829857
10°	699876
15°	567510
20°	367506
25°	105965
30°	23159
35°	6565
40°	2464
45°	1029
50°	441
55°	258
60°	296
65°	350
70°	433
75°	0
80°	0
85°	0



TEST NUMBER: P1191632

CATALOG NUMBER: LDA4A20930D010TE LAR35FL 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.9	26.3
10°-20°	1192.4	51.8
20°-30°	459.3	20.0
30°-40°	36.4	1.6
40°-50°	5.2	0.2
50°-60°	1.2	0.1
60°-70°	1.2	0.1
70°-80°	0.5	0.0
80°-90°	0.7	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°	2255.6	98.1
0°-40°	2292.0	99.6
0°-60°	2298.4	99.9
0°-90°	2300.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7339	
5°	6702	604
15°	4444	1192
25°	779	459
35°	44	36
45°	6	5
55°	1	1
65°	1	1
75°	0	0
85°	0	1
90°	0	



TEST NUMBER: P1191632

CATALOG NUMBER: LDA4A20930D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	7339.4
1°	7280.6
2°	7220.5
3°	7079.2
4°	6893.0
5°	6702.3
6°	6492.6
7°	6288.8
8°	6063.9
9°	5820.1
10°	5587.9
11°	5366.5
12°	5135.6
13°	4915.3
14°	4690.3
15°	4444.2
17.5°	3721.0
20°	2799.8
22.5°	1730.3
25°	778.6
27.5°	299.2
30°	162.6
32.5°	83.7
35°	43.6
37.5°	25.9
40°	15.3
42.5°	9.4
45°	5.9
47.5°	3.5
50°	2.3
52.5°	1.2
55°	1.2
57.5°	1.2
60°	1.2
62.5°	1.2
65°	1.2
67.5°	1.2
70°	1.2
72.5°	0.0
75°	0.0
77.5°	1.2
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: P1191632

CATALOG NUMBER: LDA4A20930D010TE LAR35FL 4LAL1

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°	1.2

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)