

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: P170671

Luminaire Tested: **LDA4A28835D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26143)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A28835D010TE LAR35FL 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3371.2 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

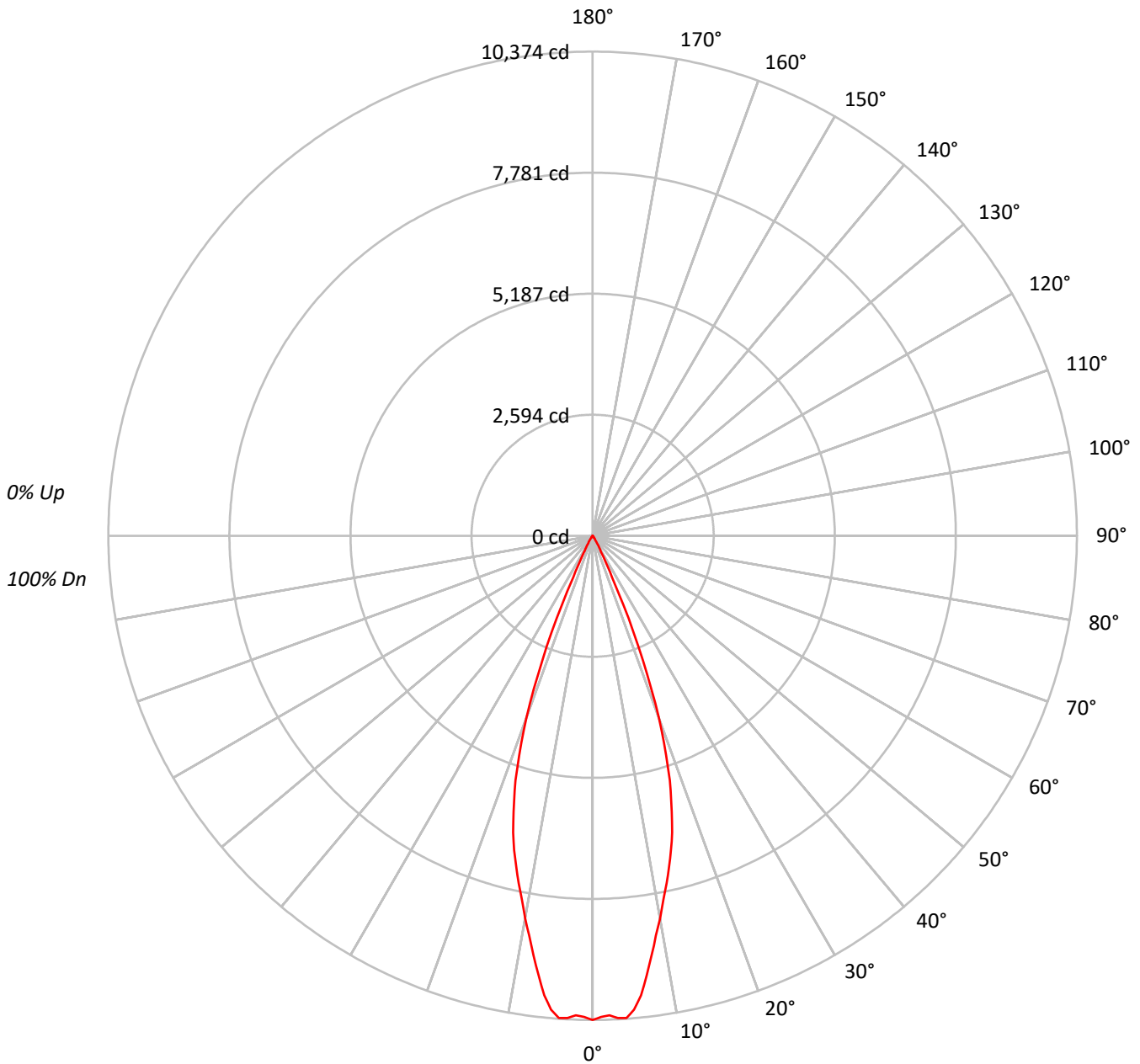
Input Watts (W): 44.49  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P170671

CATALOG NUMBER: LDA4A28835D010TE LAR35FL 4LFC1

### Luminous Intensity Polar Plot





TEST NUMBER: P170671

CATALOG NUMBER: LDA4A28835D010TE LAR35FL 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	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	98	96
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	94	93
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93	92	91	90
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	89	88	87	87
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	85	84	84
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	82	81	81
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	79	78	78
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78	76	75	75
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	74	73	73
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74	72	71	71
10	87	80	76	73	86	79	76	73	79	75	73	78	75	72	78	75	72	71	69	68	68

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1279588
5°	1262374
10°	1042242
15°	840296
20°	543778
25°	132749
30°	31889
35°	8011
40°	2528
45°	541
50°	307
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170671

CATALOG NUMBER: LDA4A28835D010TE LAR35FL 4LFC1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	903.1	26.8
10°-20°	1764.9	52.4
20°-30°	653.1	19.4
30°-40°	46.0	1.4
40°-50°	4.0	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°	3321.1	98.5
0°-40°	3367.1	99.9
0°-60°	3371.2	100.0
0°-90°	3371.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10374	
5°	10196	903
15°	6580	1765
25°	975	653
35°	53	46
45°	3	4
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170671

CATALOG NUMBER: LDA4A28835D010TE LAR35FL 4LFC1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10374.0
1°	10313.0
2°	10280.1
3°	10344.3
4°	10359.9
5°	10195.5
6°	9902.8
7°	9494.1
8°	9080.8
9°	8672.2
10°	8321.4
11°	7944.1
12°	7610.6
13°	7278.7
14°	6942.1
15°	6580.4
17.5°	5497.0
20°	4142.7
22.5°	2563.0
25°	975.4
27.5°	400.8
30°	223.9
32.5°	106.5
35°	53.2
37.5°	28.2
40°	15.7
42.5°	7.8
45°	3.1
47.5°	1.6
50°	1.6
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: P170671

CATALOG NUMBER: LDA4A28835D010TE LAR35FL 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)