

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: P170567

Luminaire Tested: **LDA4A13835D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170567
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: LDA4A13835D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, 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: 1576.4 lumens
Efficiency: N/A
Efficacy: 70.8 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

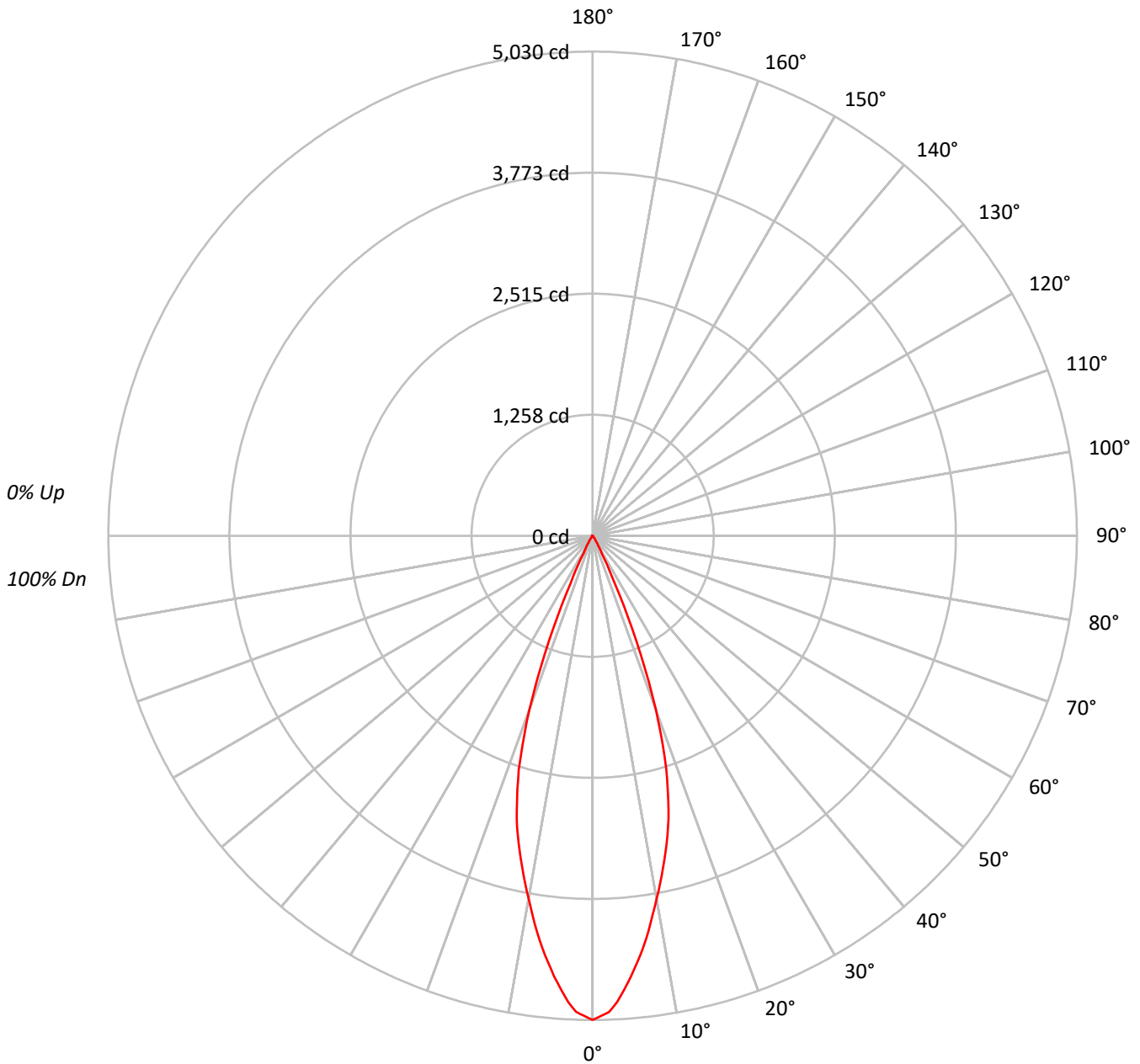
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170567

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LAL1

Luminous Intensity Polar Plot





TEST NUMBER: P170567

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LAL1

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	620379
5°	568678
10°	479614
15°	388901
20°	251852
25°	72621
30°	15866
35°	4502
40°	1691
45°	698
50°	307
55°	172
60°	197
65°	233
70°	289
75°	0
80°	0
85°	0



TEST NUMBER: P170567

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	26.3
10°-20°	817.1	51.8
20°-30°	314.8	20.0
30°-40°	24.9	1.6
40°-50°	3.6	0.2
50°-60°	0.8	0.1
60°-70°	0.8	0.1
70°-80°	0.3	0.0
80°-90°	0.4	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°	1545.7	98.1
0°-40°	1570.7	99.6
0°-60°	1575.0	99.9
0°-90°	1576.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5030	
5°	4593	414
15°	3046	817
25°	534	315
35°	30	25
45°	4	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170567

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	5029.6
1°	4989.3
2°	4948.1
3°	4851.2
4°	4723.7
5°	4592.9
6°	4449.3
7°	4309.6
8°	4155.4
9°	3988.3
10°	3829.3
11°	3677.6
12°	3519.4
13°	3368.4
14°	3214.2
15°	3045.5
17.5°	2549.9
20°	1918.7
22.5°	1185.8
25°	533.6
27.5°	205.0
30°	111.4
32.5°	57.3
35°	29.9
37.5°	17.8
40°	10.5
42.5°	6.5
45°	4.0
47.5°	2.4
50°	1.6
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.0
75°	0.0
77.5°	0.8
80°	0.0
82.5°	0.0



TEST NUMBER: P170567

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.8



(END OF REPORT)