

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: P170658

Luminaire Tested: **LDA4A09930D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170658
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: LDA4A09930D010TE LAR35FL 4LFC1
Description: PORTFOLIO 4" Flat Cone, 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: 952.5 lumens
Efficiency: N/A
Efficacy: 68.8 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

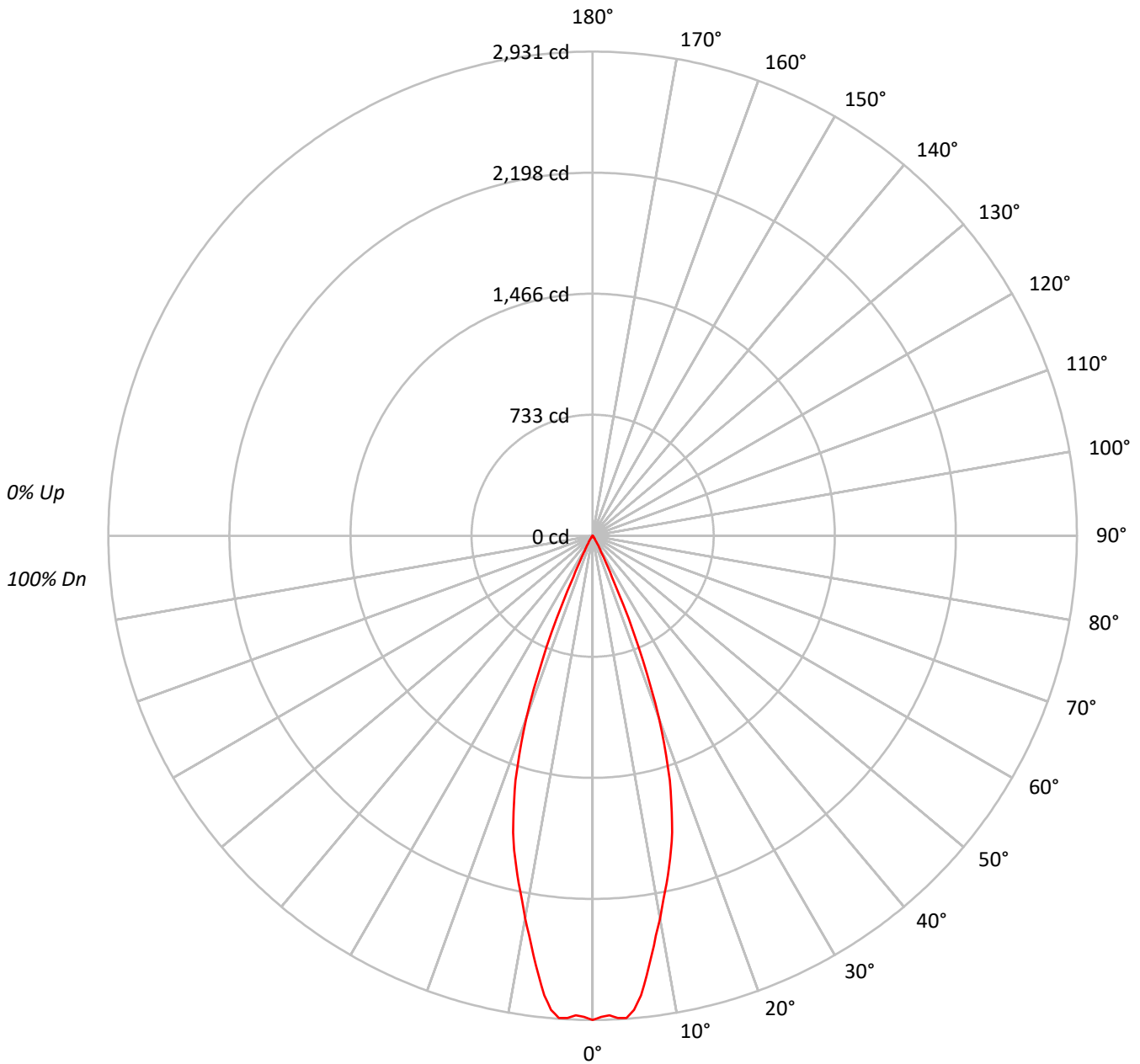
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170658

CATALOG NUMBER: LDA4A09930D010TE LAR35FL 4LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P170658

CATALOG NUMBER: LDA4A09930D010TE LAR35FL 4LFC1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	98	96																
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93	96	94	93																
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90	93	91	90																
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	88	88	87																
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	86	85	84																
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	83	82	81																
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78	80	79	78																
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	77	77	76																
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74	75	75	74																
10	87	80	76	73	86	79	76	73	79	75	73	78	75	72	78	75	72	71	72	72	71																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	361538
5°	356679
10°	294484
15°	237427
20°	153642
25°	37508
30°	9016
35°	2259
40°	708
45°	157
50°	77
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170658

CATALOG NUMBER: LDA4A09930D010TE LAR35FL 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	26.8
10°-20°	498.7	52.4
20°-30°	184.5	19.4
30°-40°	13.0	1.4
40°-50°	1.1	0.1
50°-60°	0.0	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°	938.4	98.5
0°-40°	951.4	99.9
0°-60°	952.5	100.0
0°-90°	952.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	952.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2931	
5°	2881	255
15°	1859	499
25°	276	185
35°	15	13
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170658

CATALOG NUMBER: LDA4A09930D010TE LAR35FL 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2931.1
1°	2913.9
2°	2904.6
3°	2922.7
4°	2927.1
5°	2880.7
6°	2798.0
7°	2682.5
8°	2565.7
9°	2450.3
10°	2351.2
11°	2244.6
12°	2150.3
13°	2056.6
14°	1961.4
15°	1859.3
17.5°	1553.1
20°	1170.5
22.5°	724.2
25°	275.6
27.5°	113.2
30°	63.3
32.5°	30.1
35°	15.0
37.5°	8.0
40°	4.4
42.5°	2.2
45°	0.9
47.5°	0.4
50°	0.4
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: P170658

CATALOG NUMBER: LDA4A09930D010TE 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)