

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: P170623

Luminaire Tested: **LDA4A09835D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170623
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: LDA4A09835D010TE LAR25NF 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow 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: 1125.8 lumens
Efficiency: N/A
Efficacy: 81.3 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

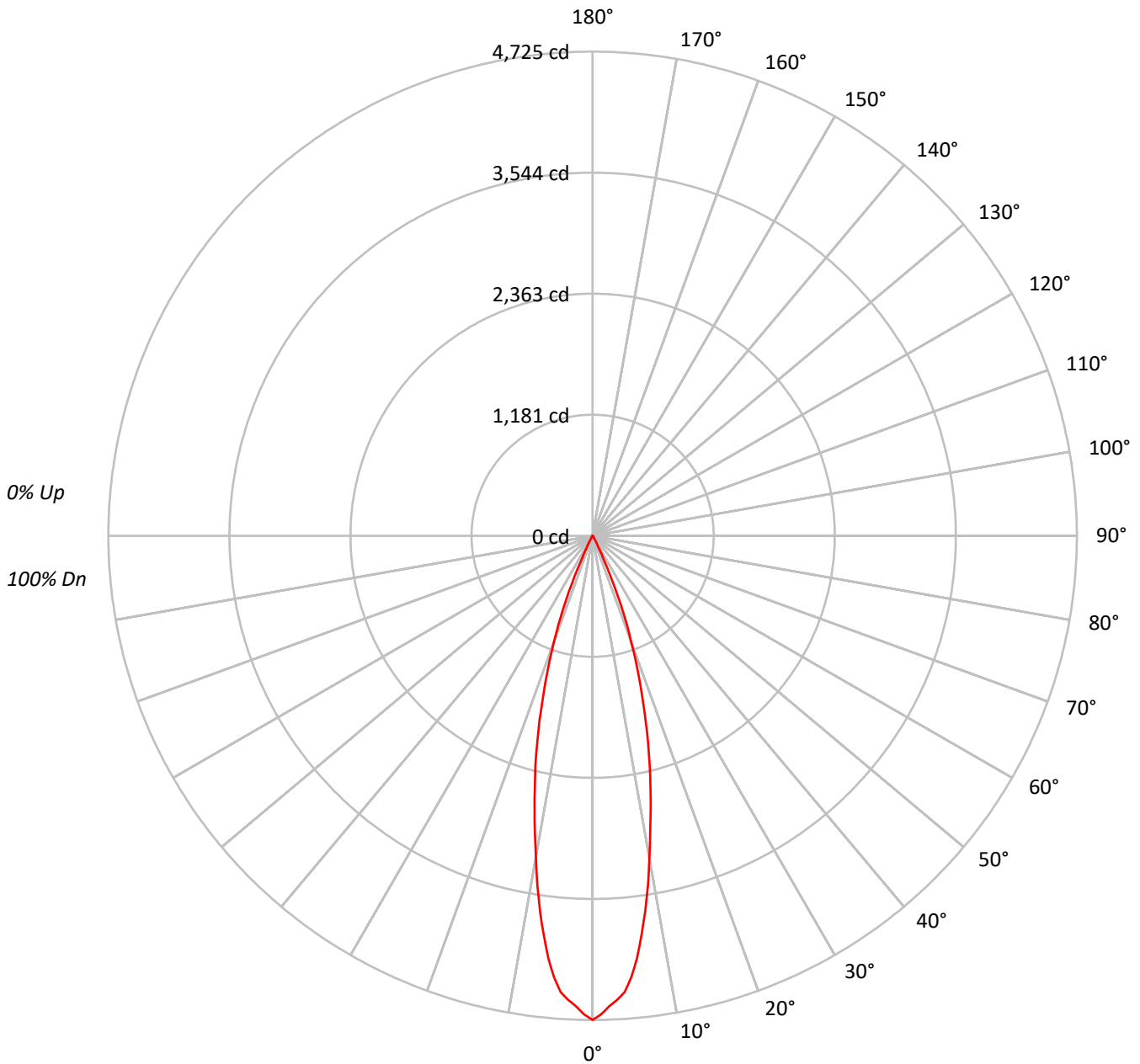
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170623

CATALOG NUMBER: LDA4A09835D010TE LAR25NF 4LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P170623

CATALOG NUMBER: LDA4A09835D010TE LAR25NF 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	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97	98	96	95	94															
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	95	94	92	91															
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	93	91	89	88															
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	91	89	87	86															
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	91	89	87	86															
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	89	86	84	83															
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	86	84	82	81															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80	79															
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	82	79	77	76															
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	80	77	75	74															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	582783
5°	535186
10°	399780
15°	266286
20°	144257
25°	34419
30°	8061
35°	2289
40°	789
45°	279
50°	96
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170623

CATALOG NUMBER: LDA4A09835D010TE LAR25NF 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.6	33.3
10°-20°	564.8	50.2
20°-30°	172.5	15.3
30°-40°	12.5	1.1
40°-50°	1.4	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°	1111.9	98.8
0°-40°	1124.4	99.9
0°-60°	1125.8	100.0
0°-90°	1125.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1125.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4725	
5°	4322	375
15°	2085	565
25°	253	172
35°	15	12
45°	2	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170623

CATALOG NUMBER: LDA4A09835D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	4724.8
1°	4671.5
2°	4594.8
3°	4537.2
4°	4463.8
5°	4322.4
6°	4144.6
7°	3922.2
8°	3692.7
9°	3448.0
10°	3191.9
11°	2947.8
12°	2724.3
13°	2510.0
14°	2303.4
15°	2085.3
17.5°	1566.6
20°	1099.0
22.5°	685.7
25°	252.9
27.5°	102.2
30°	56.6
32.5°	28.3
35°	15.2
37.5°	8.7
40°	4.9
42.5°	2.7
45°	1.6
47.5°	0.5
50°	0.5
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: P170623

CATALOG NUMBER: LDA4A09835D010TE LAR25NF 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)