

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: P170631

Luminaire Tested: **LDA4A13835D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170631
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: LDA4A13835D010TE 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: 1670.8 lumens
Efficiency: N/A
Efficacy: 75.0 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

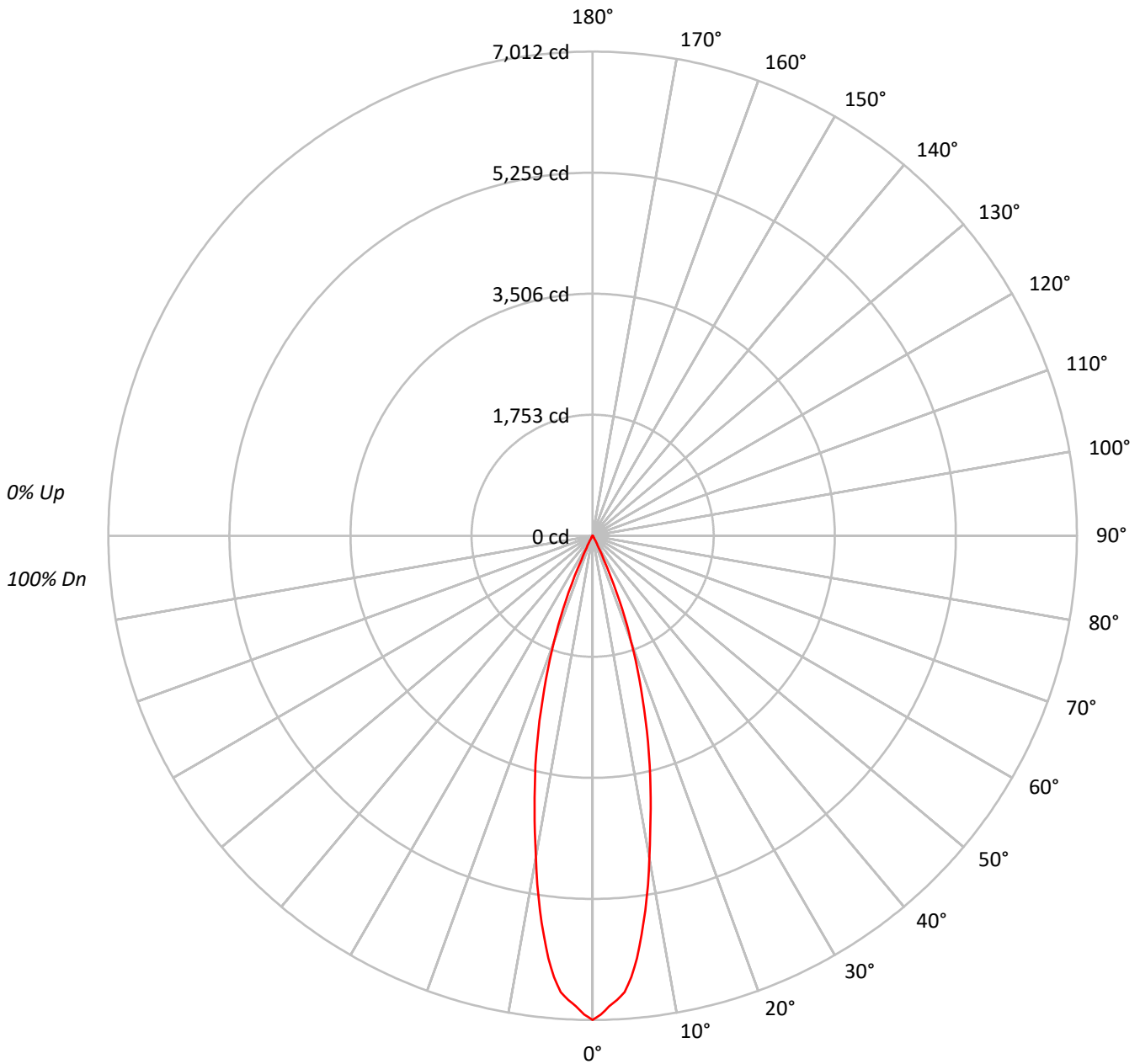
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170631

CATALOG NUMBER: LDA4A13835D010TE LAR25NF 4LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P170631

CATALOG NUMBER: LDA4A13835D010TE LAR25NF 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	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	94	92	91	91	89	88																		
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	95	94	92	91	89	88	86	84	83	81																		
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	93	91	89	88	86	84	83	81	79	76																		
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	91	89	87	86	84	83	81	79	76	74																		
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	91	89	87	86	84	83	81	79	76	74																		
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	89	86	84	83	81	79	76	74	72	70																		
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	86	84	82	81	79	76	74	72	70	68																		
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80	79	76	74	72	70	68	66																		
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	82	79	77	76	74	72	70	68	66	64																		
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	80	77	75	74	72	70	68	66	64	62																		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	864900
5°	794260
10°	593302
15°	395196
20°	214075
25°	51077
30°	11950
35°	3403
40°	1175
45°	419
50°	154
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170631

CATALOG NUMBER: LDA4A13835D010TE LAR25NF 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.9	33.3
10°-20°	838.3	50.2
20°-30°	255.9	15.3
30°-40°	18.5	1.1
40°-50°	2.1	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°	1650.1	98.8
0°-40°	1668.6	99.9
0°-60°	1670.8	100.0
0°-90°	1670.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7012	
5°	6415	556
15°	3095	838
25°	375	256
35°	23	18
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170631

CATALOG NUMBER: LDA4A13835D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	7012.0
1°	6932.9
2°	6819.1
3°	6733.5
4°	6624.6
5°	6414.8
6°	6150.9
7°	5820.8
8°	5480.3
9°	5117.1
10°	4737.0
11°	4374.7
12°	4043.0
13°	3725.1
14°	3418.4
15°	3094.8
17.5°	2324.9
20°	1630.9
22.5°	1017.6
25°	375.3
27.5°	151.7
30°	83.9
32.5°	42.0
35°	22.6
37.5°	12.9
40°	7.3
42.5°	4.0
45°	2.4
47.5°	0.8
50°	0.8
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: P170631

CATALOG NUMBER: LDA4A13835D010TE 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)