

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: P170443

Luminaire Tested: **LDA4A13935D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25629)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A13935D010TE LAR25NF 4LA1  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1146.0 lumens  
Efficiency: N/A  
Efficacy: 51.5 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.45  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

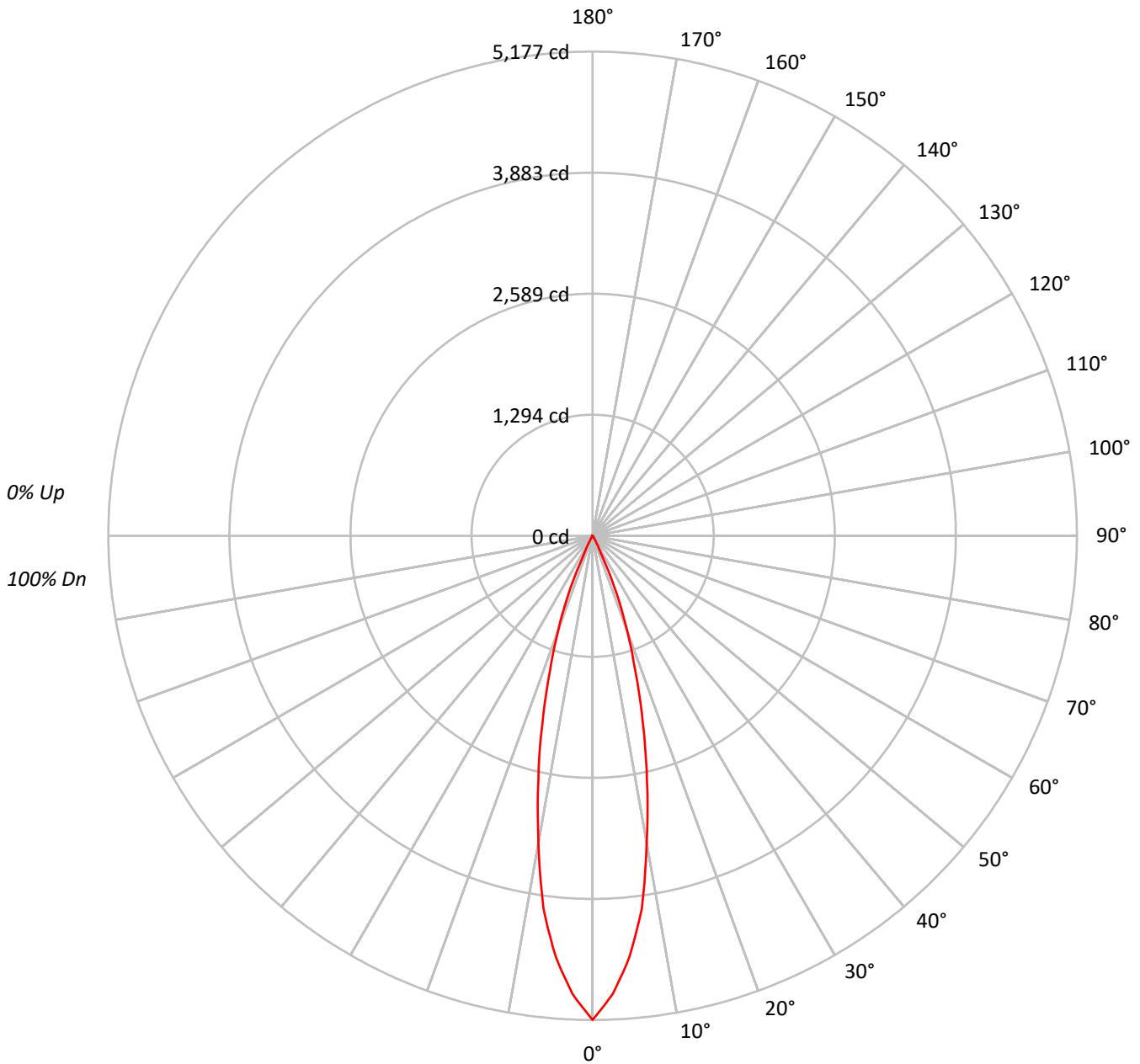
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P170443

CATALOG NUMBER: LDA4A13935D010TE LAR25NF 4LA1

### Luminous Intensity Polar Plot





TEST NUMBER: P170443

CATALOG NUMBER: LDA4A13935D010TE LAR25NF 4LA1

**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	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	105	103	102	101	100	99	99	97	98	96	95	94	94	92	91	90	88	86	83	81	79	77	75												
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	94	96	94	92	91	90	88	86	83	81	79	77	75																
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	90	88	86	83	81	79	77	75																			
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88	86	83	81	79	77	75																					
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86	83	81	79	77	75																						
6	99	93	89	86	98	93	89	86	91	88	85	90	87	85	89	86	84	83	81	79	77	75																							
7	97	90	86	83	95	90	86	83	89	85	83	88	85	83	87	84	82	81	79	77	75																								
8	94	88	84	81	93	87	83	81	86	83	81	85	82	80	85	82	80	79	77	75																									
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77	75																										
10	89	83	79	76	89	83	79	76	82	79	76	81	78	76	81	78	76	75																											

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

	0°
0°	638548
5°	559739
10°	417491
15°	265584
20°	140844
25°	31779
30°	7634
35°	2198
40°	741
45°	227
50°	134
55°	151
60°	173
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170443  
 CATALOG NUMBER: LDA4A13935D010TE LAR25NF 4LA1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.5	34.5
10°-20°	568.2	49.6
20°-30°	168.0	14.7
30°-40°	11.9	1.0
40°-50°	1.4	0.1
50°-60°	0.6	0.1
60°-70°	0.4	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°	1131.7	98.7
0°-40°	1143.6	99.8
0°-60°	1145.6	100.0
0°-90°	1146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5177	
5°	4521	395
15°	2080	568
25°	234	168
35°	15	12
45°	1	1
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170443

CATALOG NUMBER: LDA4A13935D010TE LAR25NF 4LA1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5176.9
2.5°	4905.1
5°	4520.7
7.5°	4021.3
10°	3333.3
12.5°	2686.4
15°	2079.8
17.5°	1515.5
20°	1073.0
22.5°	679.4
25°	233.5
27.5°	101.9
30°	53.6
32.5°	27.1
35°	14.6
37.5°	8.6
40°	4.6
42.5°	2.6
45°	1.3
47.5°	0.7
50°	0.7
52.5°	0.7
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.0
67.5°	0.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)