

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: P170625

Luminaire Tested: **LDA4A09927D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170625  
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: LDA4A09927D010TE LAR25NF 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 794.5 lumens  
Efficiency: N/A  
Efficacy: 57.4 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

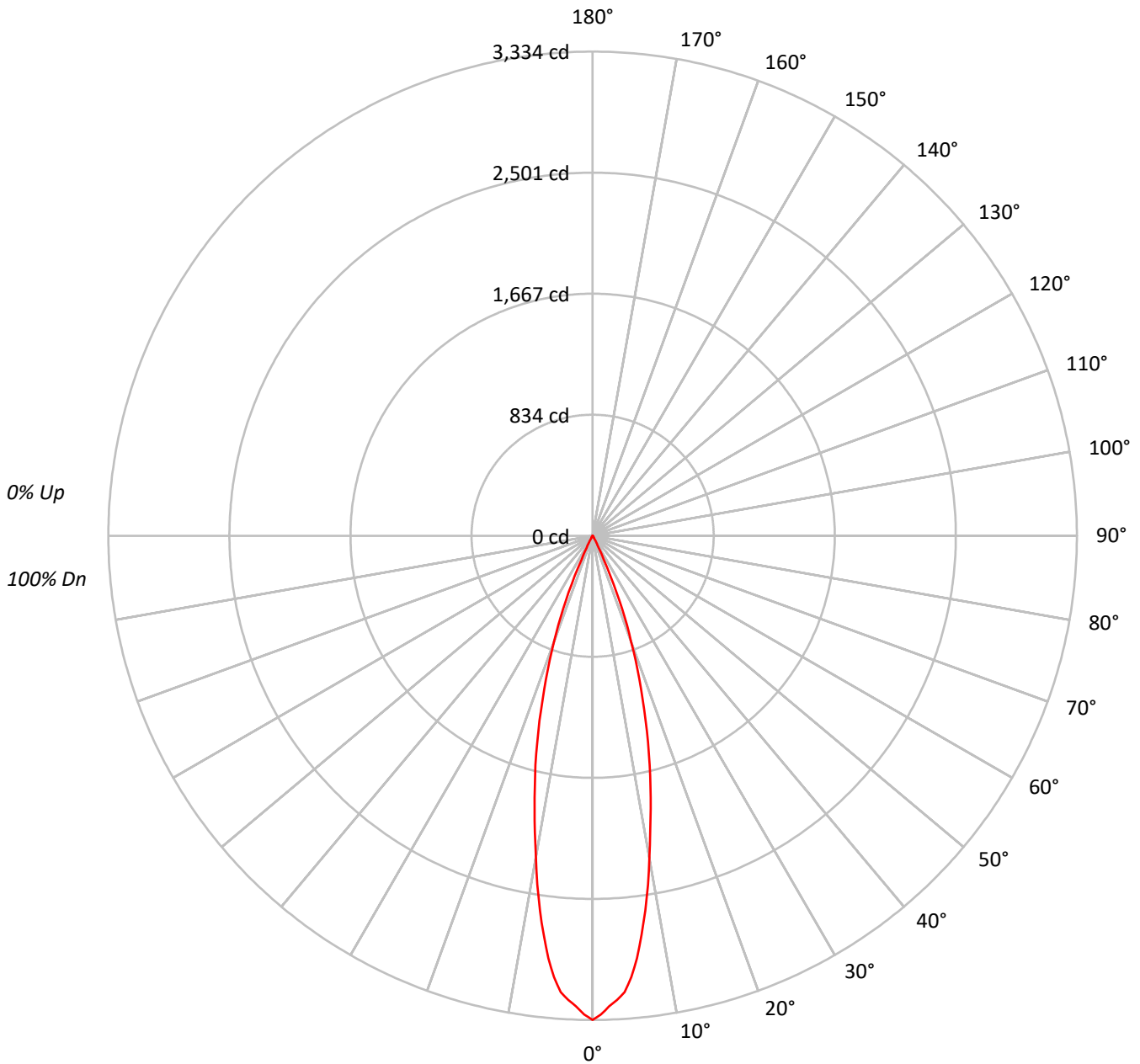
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P170625

CATALOG NUMBER: LDA4A09927D010TE LAR25NF 4LFC1

### Luminous Intensity Polar Plot





TEST NUMBER: P170625

CATALOG NUMBER: LDA4A09927D010TE 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																												
1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	98	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	94	92	91	91	89	88	87	86	84	83																		
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	91	89	88	87	86	84	83	82	81	80																		
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	87	86	84	83	82	81	80	79	78	76																		
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	84	83	82	81	80	79	78	77	75	74																		
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	82	81	80	79	78	77	76	75	74	73																		
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	80	79	78	77	76	75	74	73	72	71																		
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	79	78	77	76	75	74	73	72	71	70	69	68																		
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	75	74	73	72	71	70	69	68	67	66																		
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	73	72	71	70	69	68	67	66	65	64																		

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

	0°
0°	411247
5°	377654
10°	282110
15°	187906
20°	101793
25°	24280
30°	5683
35°	1611
40°	564
45°	209
50°	77
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170625

CATALOG NUMBER: LDA4A09927D010TE LAR25NF 4LFC1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.3	33.3
10°-20°	398.6	50.2
20°-30°	121.7	15.3
30°-40°	8.8	1.1
40°-50°	1.0	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°	784.6	98.8
0°-40°	793.4	99.9
0°-60°	794.5	100.0
0°-90°	794.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3334	
5°	3050	264
15°	1472	399
25°	178	122
35°	11	9
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170625

CATALOG NUMBER: LDA4A09927D010TE LAR25NF 4LFC1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3334.1
1°	3296.5
2°	3242.4
3°	3201.7
4°	3149.9
5°	3050.1
6°	2924.7
7°	2767.7
8°	2605.8
9°	2433.1
10°	2252.4
11°	2080.1
12°	1922.4
13°	1771.2
14°	1625.4
15°	1471.5
17.5°	1105.5
20°	775.5
22.5°	483.9
25°	178.4
27.5°	72.1
30°	39.9
32.5°	20.0
35°	10.7
37.5°	6.1
40°	3.5
42.5°	1.9
45°	1.2
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: P170625

CATALOG NUMBER: LDA4A09927D010TE 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)