

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: P170633

Luminaire Tested: **LDA4A13927D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170633  
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: LDA4A13927D010TE 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: 1179.0 lumens  
Efficiency: N/A  
Efficacy: 52.9 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

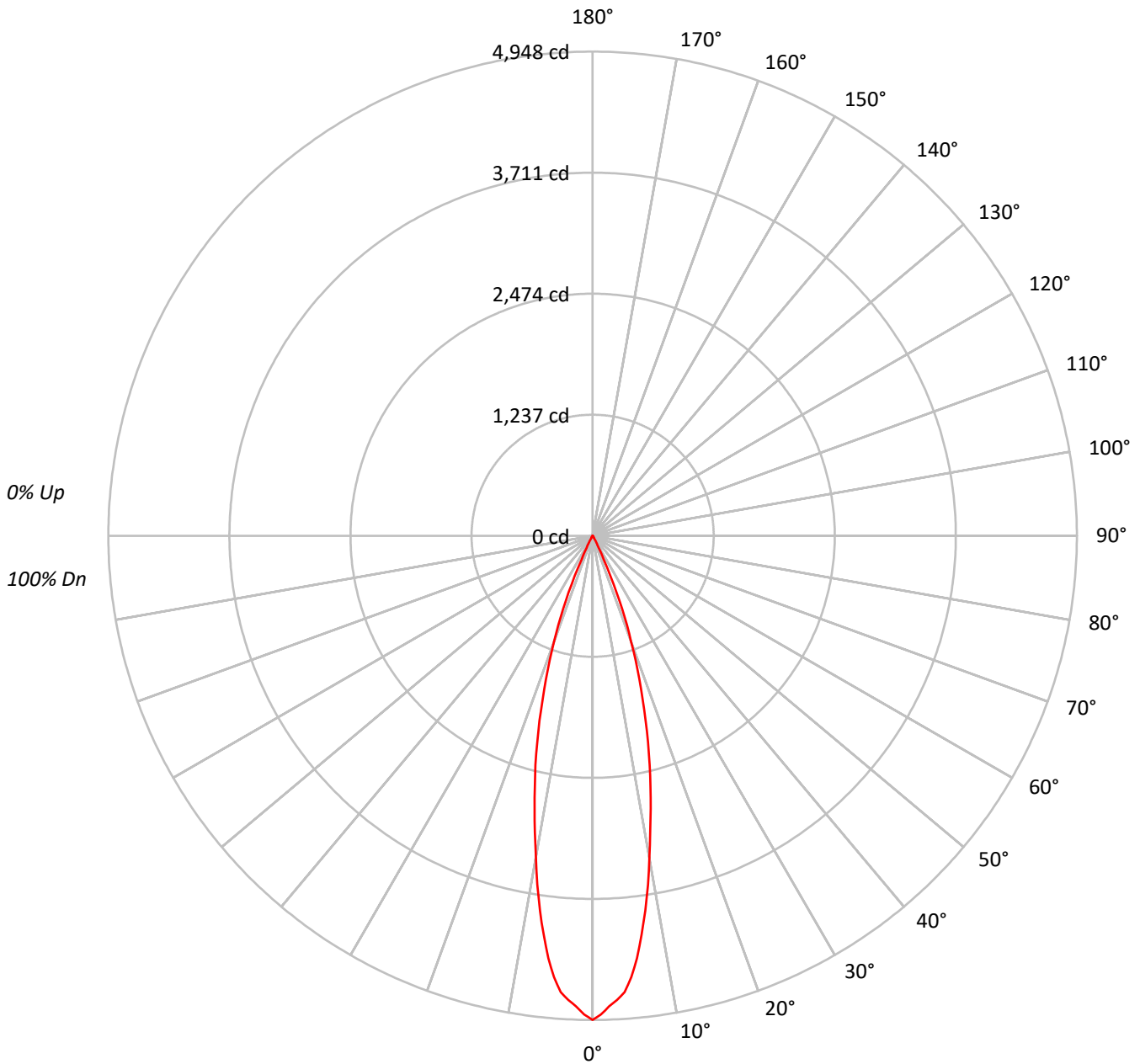
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P170633

CATALOG NUMBER: LDA4A13927D010TE LAR25NF 4LFC1

### Luminous Intensity Polar Plot





TEST NUMBER: P170633

CATALOG NUMBER: LDA4A13927D010TE 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	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	99	97	98	96	95	94	94	92	91	91	89	89	87	86															
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	88	85	83	83	81	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	86	84	83	83	81	81	79	79														
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	83	81	81	79	79	77	76														
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	89	86	84	83	83	81	81	79	79	77	76	76															
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	89	86	84	83	83	81	81	79	79	77	76	76															
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	87	84	82	81	81	79	79	77	76	76	74	74															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80	79	77	76	76	74	74	72	72	70	70														
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	82	79	77	76	76	74	74	72	72	70	70	68	68														
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	80	77	75	74	74	72	72	70	70	68	68	66	66														

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

	0°
0°	610314
5°	560469
10°	418668
15°	278877
20°	151069
25°	36038
30°	8432
35°	2394
40°	821
45°	297
50°	115
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170633

CATALOG NUMBER: LDA4A13927D010TE LAR25NF 4LFC1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.3	33.3
10°-20°	591.5	50.2
20°-30°	180.6	15.3
30°-40°	13.0	1.1
40°-50°	1.5	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°	1164.4	98.8
0°-40°	1177.5	99.9
0°-60°	1179.0	100.0
0°-90°	1179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4948	
5°	4527	392
15°	2184	592
25°	265	181
35°	16	13
45°	2	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170633

CATALOG NUMBER: LDA4A13927D010TE LAR25NF 4LFC1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4948.0
1°	4892.2
2°	4811.9
3°	4751.6
4°	4674.7
5°	4526.6
6°	4340.4
7°	4107.5
8°	3867.2
9°	3610.9
10°	3342.7
11°	3087.0
12°	2853.0
13°	2628.6
14°	2412.2
15°	2183.9
17.5°	1640.6
20°	1150.9
22.5°	718.1
25°	264.8
27.5°	107.1
30°	59.2
32.5°	29.6
35°	15.9
37.5°	9.1
40°	5.1
42.5°	2.8
45°	1.7
47.5°	0.6
50°	0.6
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: P170633

CATALOG NUMBER: LDA4A13927D010TE 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)