

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: P170532

Luminaire Tested: **LDA4A09940D010TE LAR25NF 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26145)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A09940D010TE LAR25NF 4LAL1  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 903.3 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.45  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

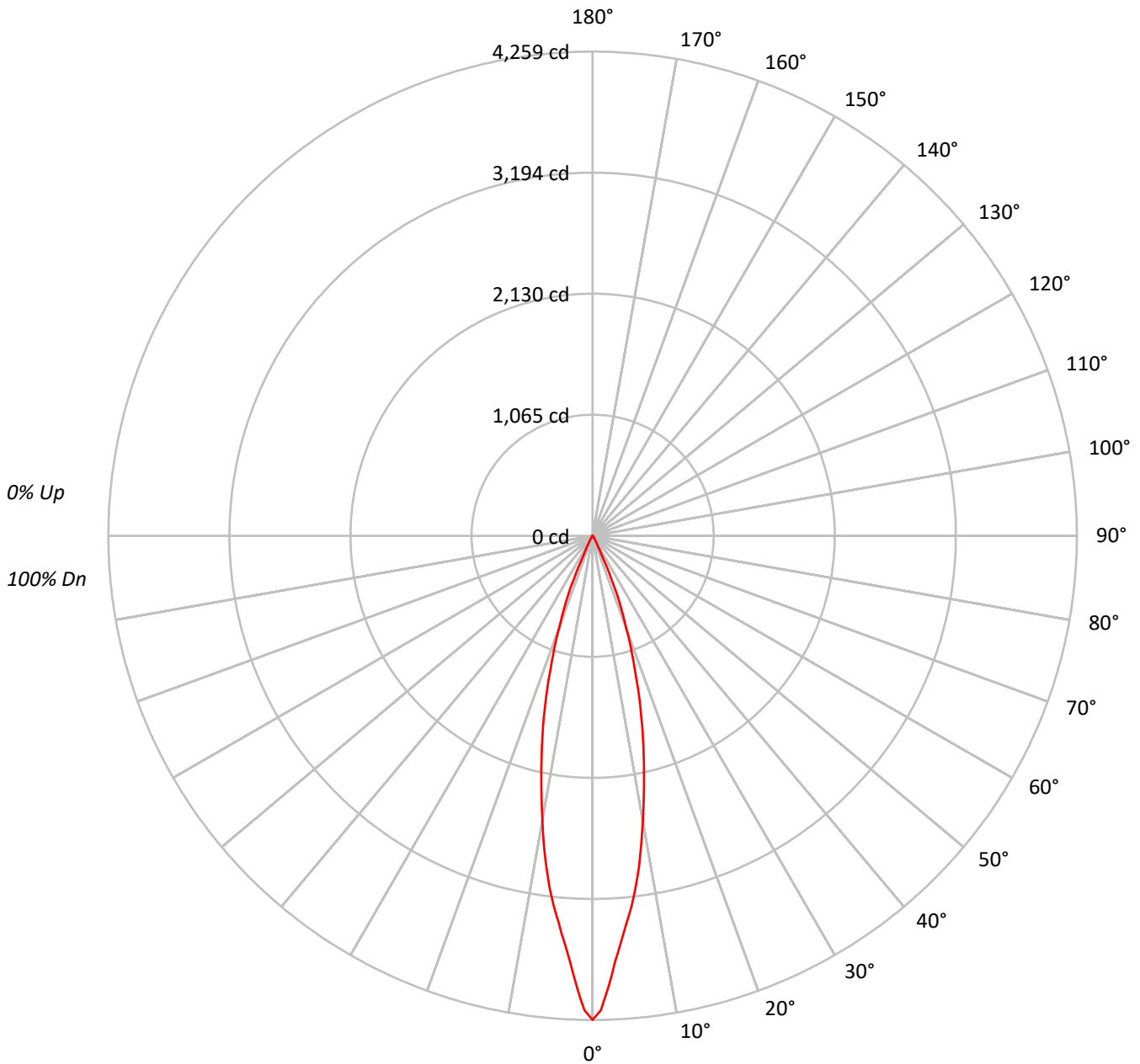
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P170532

CATALOG NUMBER: LDA4A09940D010TE LAR25NF 4LAL1

### Luminous Intensity Polar Plot





TEST NUMBER: P170532

CATALOG NUMBER: LDA4A09940D010TE LAR25NF 4LAL1

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	94	92	91	91	91	91
4	105	100	96	93	103	98	95	92	97	94	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83	83
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	84	82	81	81	81	81
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78	78	78	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76	76	76	76
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74	74	74	74

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

	0°
0°	525292
5°	423701
10°	318469
15°	211670
20°	113541
25°	28730
30°	6822
35°	2229
40°	918
45°	419
50°	192
55°	108
60°	123
65°	146
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170532

CATALOG NUMBER: LDA4A09940D010TE LAR25NF 4LAL1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.8	33.3
10°-20°	448.2	49.6
20°-30°	140.0	15.5
30°-40°	11.5	1.3
40°-50°	2.0	0.2
50°-60°	0.5	0.1
60°-70°	0.3	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°	889.0	98.4
0°-40°	900.5	99.7
0°-60°	903.0	100.0
0°-90°	903.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4259	
5°	3422	301
15°	1658	448
25°	211	140
35°	15	11
45°	2	2
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170532

CATALOG NUMBER: LDA4A09940D010TE LAR25NF 4LAL1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4258.7
1°	4174.5
2°	3971.0
3°	3757.5
4°	3581.4
5°	3422.0
6°	3273.1
7°	3112.8
8°	2930.9
9°	2742.3
10°	2542.7
11°	2351.7
12°	2172.2
13°	1998.9
14°	1827.6
15°	1657.6
17.5°	1235.9
20°	865.0
22.5°	560.5
25°	211.1
27.5°	84.2
30°	47.9
32.5°	25.4
35°	14.8
37.5°	9.1
40°	5.7
42.5°	3.4
45°	2.4
47.5°	1.4
50°	1.0
52.5°	0.5
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
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: P170532

CATALOG NUMBER: LDA4A09940D010TE LAR25NF 4LAL1

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)