

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: P170451

Luminaire Tested: **LDA4A28935D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170451  
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: LDA4A28935D010TE 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: 2223.1 lumens  
Efficiency: N/A  
Efficacy: 50.0 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

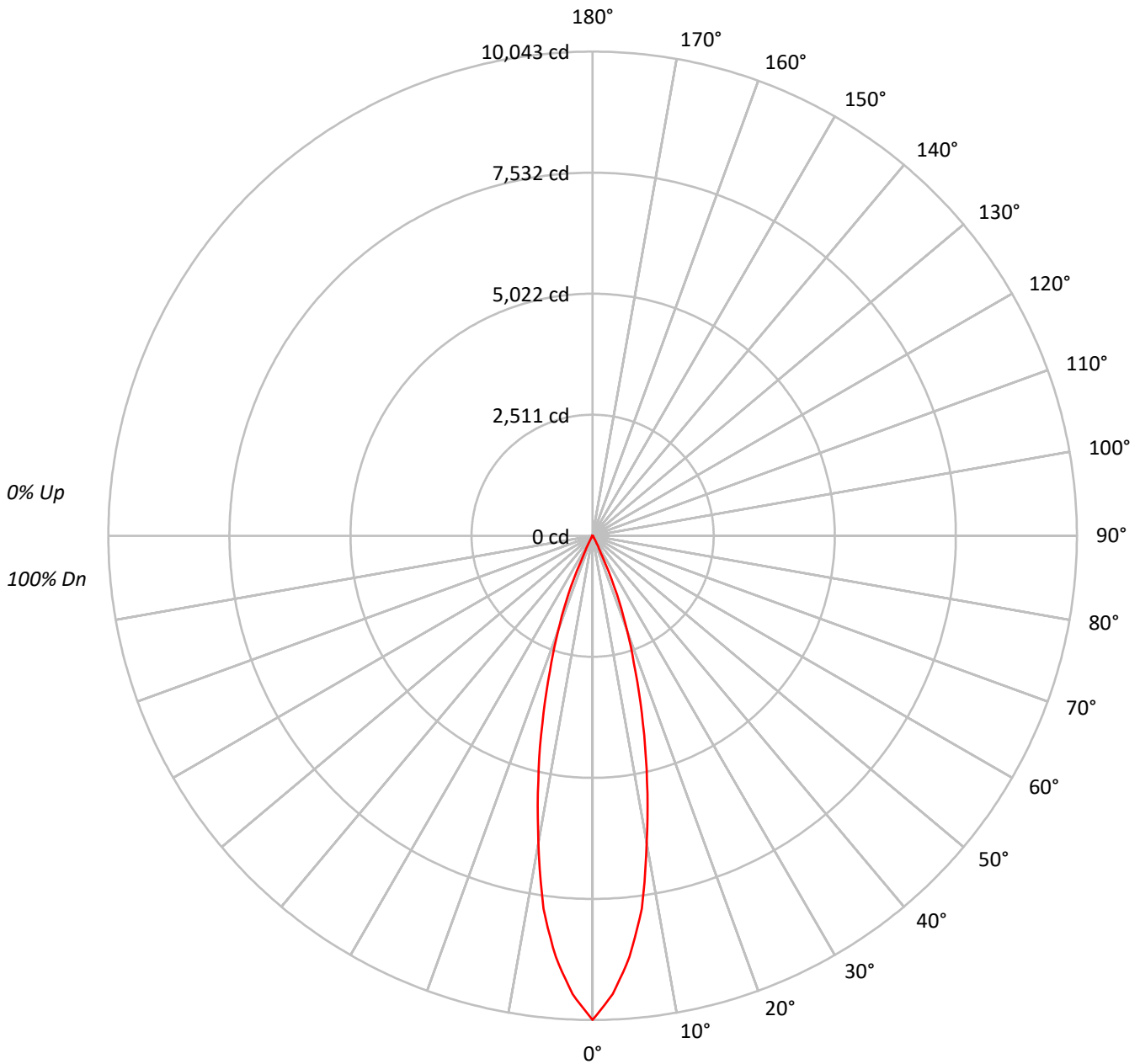
Input Watts (W): 44.49  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

	0°
0°	1238735
5°	1085848
10°	809906
15°	515205
20°	273221
25°	61652
30°	14798
35°	4246
40°	1449
45°	454
50°	249
55°	280
60°	321
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	767.2	34.5
10°-20°	1102.2	49.6
20°-30°	326.0	14.7
30°-40°	23.1	1.0
40°-50°	2.7	0.1
50°-60°	1.2	0.1
60°-70°	0.8	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°	2195.4	98.8
0°-40°	2218.5	99.8
0°-60°	2222.3	100.0
0°-90°	2223.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2223.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10043	
5°	8770	767
15°	4035	1102
25°	453	326
35°	28	23
45°	3	3
55°	1	1
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10042.8
2.5°	9515.4
5°	8769.8
7.5°	7801.0
10°	6466.4
12.5°	5211.3
15°	4034.6
17.5°	2940.0
20°	2081.5
22.5°	1317.9
25°	453.0
27.5°	197.6
30°	103.9
32.5°	52.6
35°	28.2
37.5°	16.7
40°	9.0
42.5°	5.1
45°	2.6
47.5°	1.3
50°	1.3
52.5°	1.3
55°	1.3
57.5°	1.3
60°	1.3
62.5°	1.3
65°	0.0
67.5°	1.3
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



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— 0°-180°







(END OF REPORT)