

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: P170626

Luminaire Tested: **LDA4A09930D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170626  
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: LDA4A09930D010TE 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 / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 915.8 lumens  
Efficiency: N/A  
Efficacy: 66.2 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

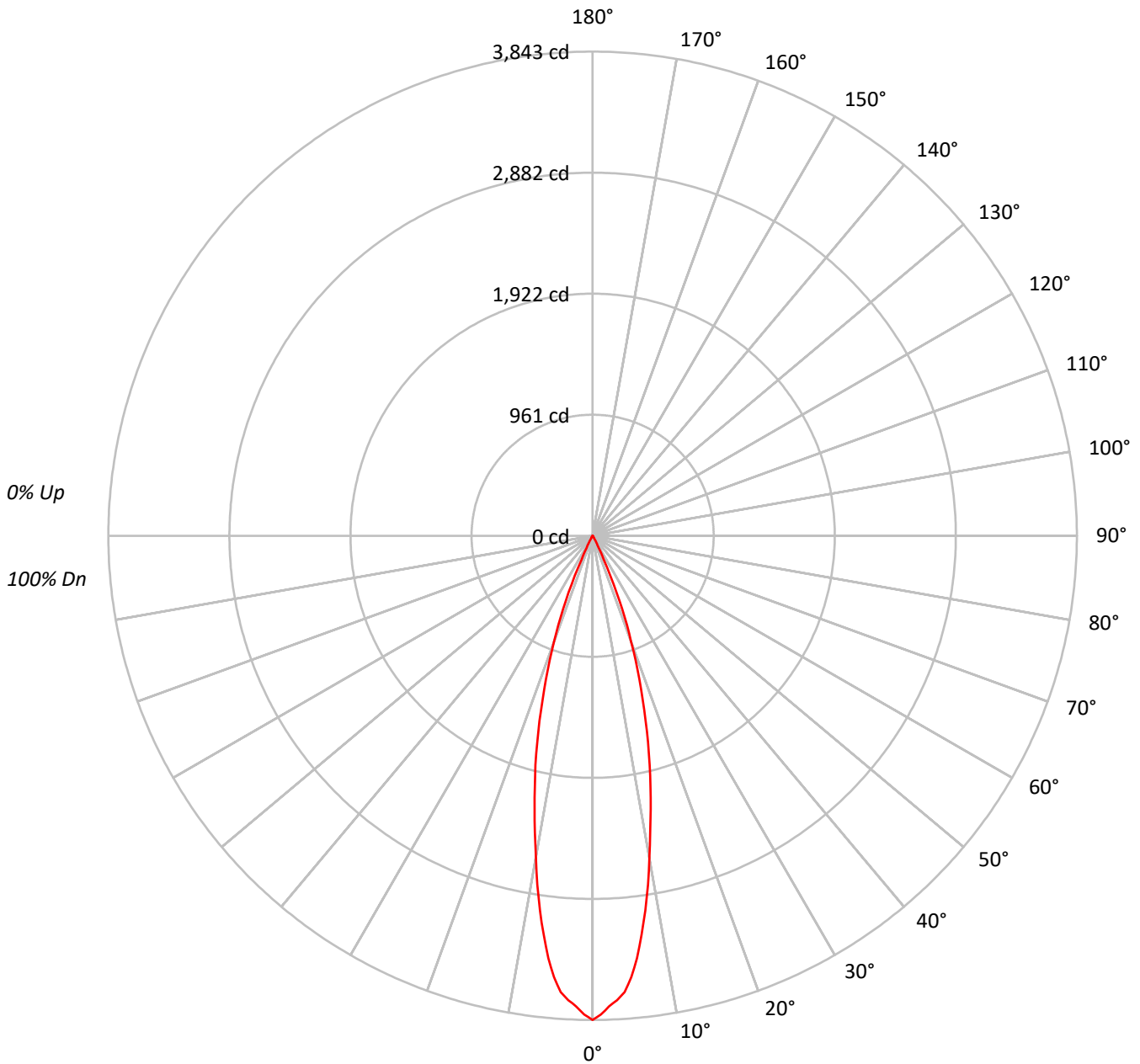
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	100	100	100	100	100	100	100	100	100	100															
	1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97	97	97	97	97	97	97	97	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	94	94	94	94	94	94	94	94															
	3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	91	91	91	91	91	91	91	91	91	91	91															
	4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	88	88	88	88	88	88	88	88	88	88	88															
	5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	86	86	86	86	86	86	86	86	86	86	86															
	6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	83	83	83	83	83	83	83	83	83	83	83															
	7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	81	81	81	81	81	81	81	81	81	81	81	81														
	8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79	79	79	79	79	79	79	79	79															
	9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	76	76	76	76	76	76	76	76	76	76	76	76														
	10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	74	74	74	74	74	74	74	74	74	74	74	74														

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

	0°
0°	474054
5°	435340
10°	325195
15°	216612
20°	117335
25°	27995
30°	6552
35°	1867
40°	644
45°	227
50°	77
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.7	33.3
10°-20°	459.5	50.2
20°-30°	140.3	15.3
30°-40°	10.1	1.1
40°-50°	1.1	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°	904.5	98.8
0°-40°	914.6	99.9
0°-60°	915.8	100.0
0°-90°	915.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	915.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3843	
5°	3516	305
15°	1696	459
25°	206	140
35°	12	10
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3843.3
1°	3800.0
2°	3737.6
3°	3690.7
4°	3631.0
5°	3516.0
6°	3371.4
7°	3190.5
8°	3003.8
9°	2804.8
10°	2596.4
11°	2397.8
12°	2216.0
13°	2041.7
14°	1873.7
15°	1696.3
17.5°	1274.3
20°	893.9
22.5°	557.8
25°	205.7
27.5°	83.2
30°	46.0
32.5°	23.0
35°	12.4
37.5°	7.1
40°	4.0
42.5°	2.2
45°	1.3
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



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)