

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: P170624

Luminaire Tested: **LDA4A09840D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170624  
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: LDA4A09840D010TE LAR25NF 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1154.7 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

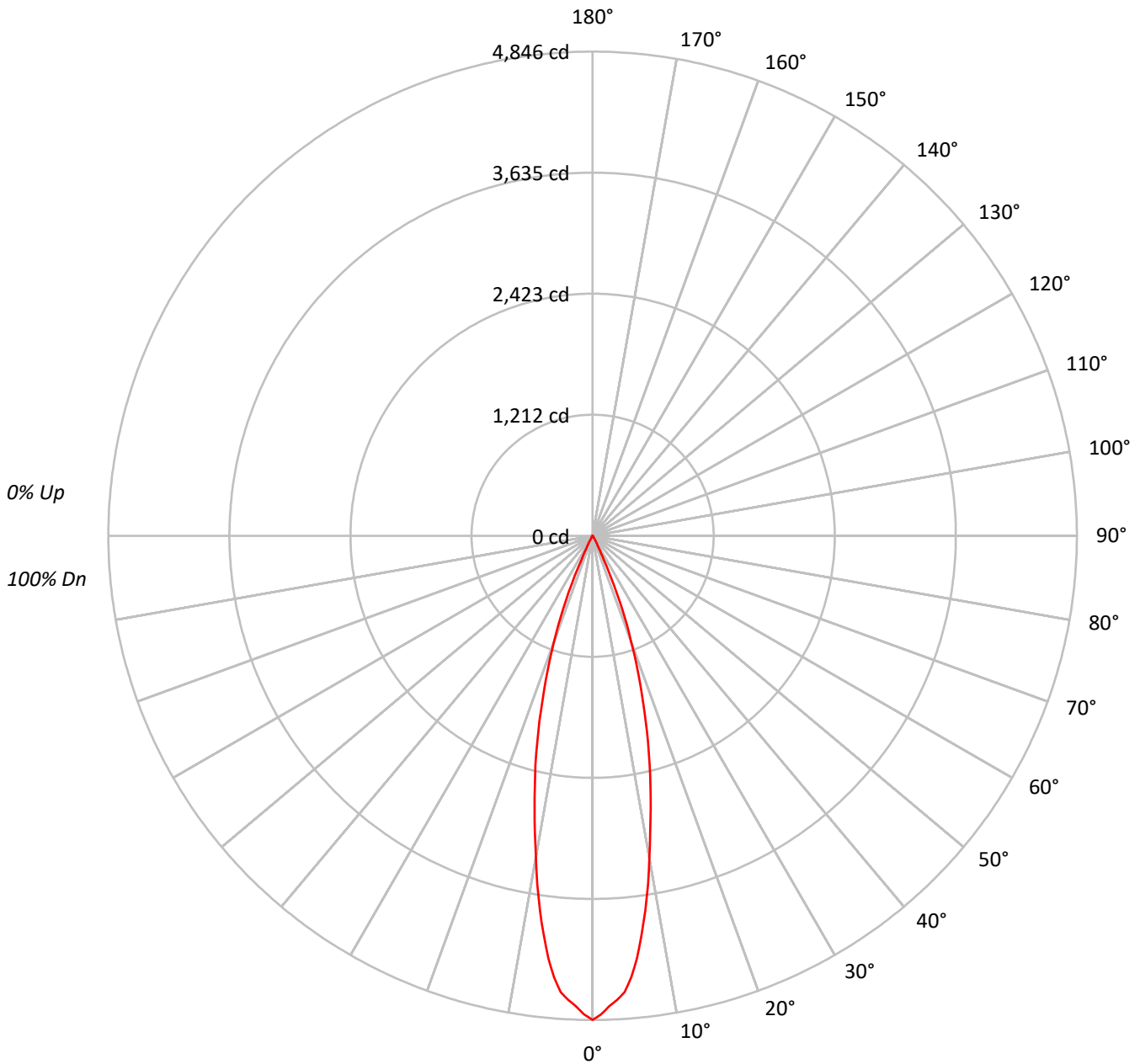
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	99	98	98	97	97	97	97	97															
	1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	98	98	96	95	94	94	93	92	92	91	91	91	91															
	2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	98	96	95	94	93	92	92	91	91	91	91	91															
	3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	95	94	92	91	91	89	89	88	88	88	88	88															
	4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	93	91	89	87	87	86	86	86	86	86	86	86															
	5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	91	89	87	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	89	86	84	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	86	84	82	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	79	84	82	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	82	79	77	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	80	77	75	74	74	74	74	74	74	74	74	74															

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

	0°
0°	597708
5°	548892
10°	410026
15°	273118
20°	147945
25°	35290
30°	8261
35°	2349
40°	805
45°	297
50°	115
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°	384.2	33.3
10°-20°	579.3	50.2
20°-30°	176.9	15.3
30°-40°	12.8	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°	1140.4	98.8
0°-40°	1153.1	99.9
0°-60°	1154.7	100.0
0°-90°	1154.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4846	
5°	4433	384
15°	2139	579
25°	259	177
35°	16	13
45°	2	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4845.8
1°	4791.2
2°	4712.5
3°	4653.4
4°	4578.1
5°	4433.1
6°	4250.8
7°	4022.7
8°	3787.3
9°	3536.4
10°	3273.7
11°	3023.3
12°	2794.1
13°	2574.3
14°	2362.4
15°	2138.8
17.5°	1606.7
20°	1127.1
22.5°	703.3
25°	259.3
27.5°	104.8
30°	58.0
32.5°	29.0
35°	15.6
37.5°	8.9
40°	5.0
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



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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)