

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: P170673

Luminaire Tested: **LDA4A28927D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26143)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A28927D010TE LAR35FL 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 35° 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: 2378.9 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

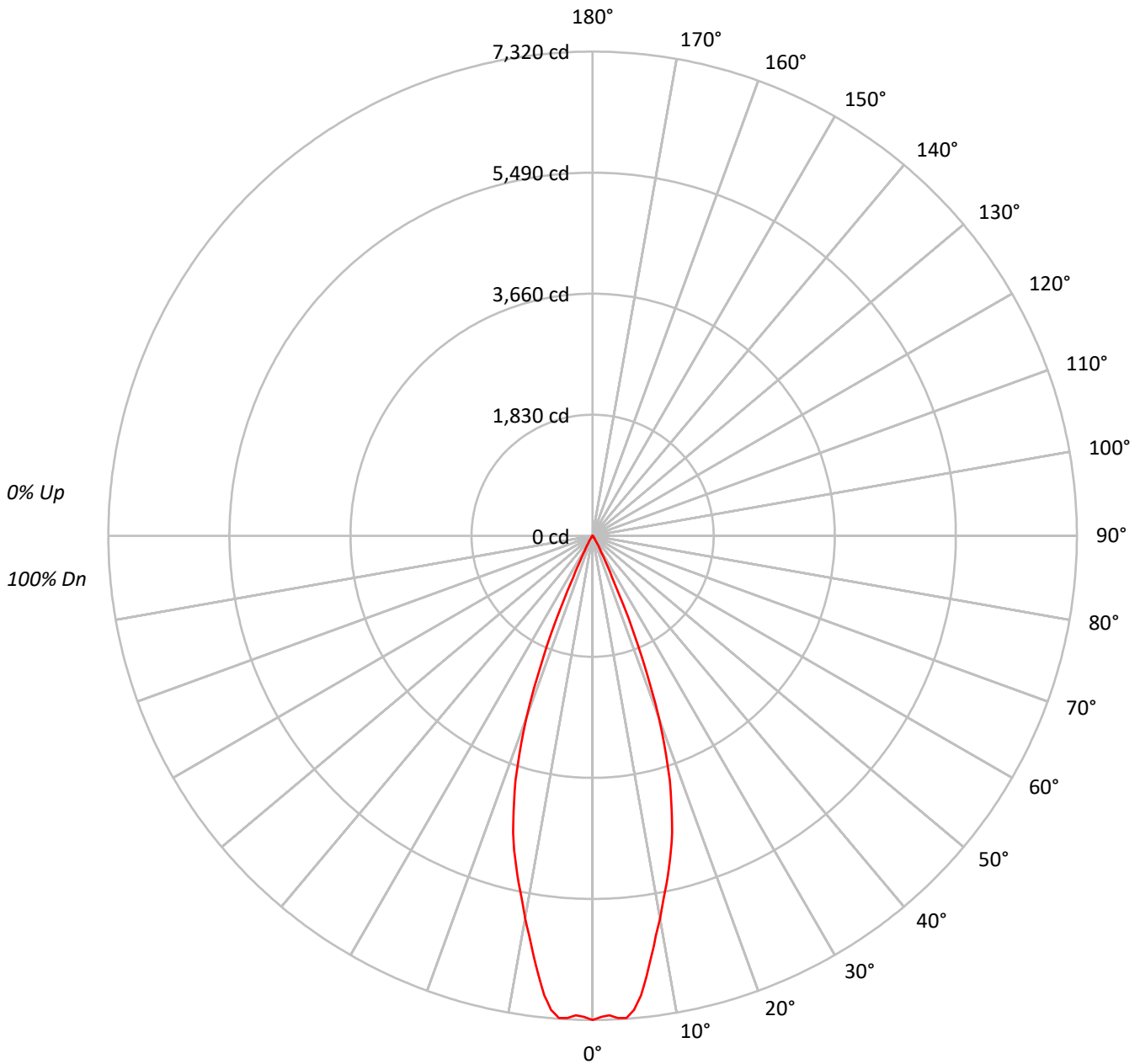
Input Watts (W): 44.49  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P170673

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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	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	98	96																
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93	96	94	93																
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90	93	91	90																
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	88	88	87																
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	86	85	84																
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	83	82	81																
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78	80	79	78																
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	77	77	76																
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74	75	75	74																
10	87	80	76	73	86	79	76	73	79	75	73	78	75	72	78	75	72	71	72	72	71																

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

	0°
0°	902952
5°	890800
10°	735471
15°	592960
20°	383717
25°	93675
30°	22504
35°	5662
40°	1771
45°	384
50°	211
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°	637.3	26.8
10°-20°	1245.4	52.4
20°-30°	460.8	19.4
30°-40°	32.5	1.4
40°-50°	2.8	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°	2343.5	98.5
0°-40°	2376.0	99.9
0°-60°	2378.9	100.0
0°-90°	2378.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7320	
5°	7194	637
15°	4644	1245
25°	688	461
35°	38	32
45°	2	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7320.5
1°	7277.4
2°	7254.2
3°	7299.5
4°	7310.5
5°	7194.5
6°	6987.9
7°	6699.6
8°	6407.9
9°	6119.5
10°	5872.1
11°	5605.8
12°	5370.5
13°	5136.3
14°	4898.7
15°	4643.5
17.5°	3879.0
20°	2923.3
22.5°	1808.6
25°	688.3
27.5°	282.8
30°	158.0
32.5°	75.1
35°	37.6
37.5°	19.9
40°	11.0
42.5°	5.5
45°	2.2
47.5°	1.1
50°	1.1
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)