

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: P170654

Luminaire Tested: **LDA4A09830D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170654  
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: LDA4A09830D010TE LAR35FL 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1113.8 lumens  
Efficiency: N/A  
Efficacy: 80.5 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

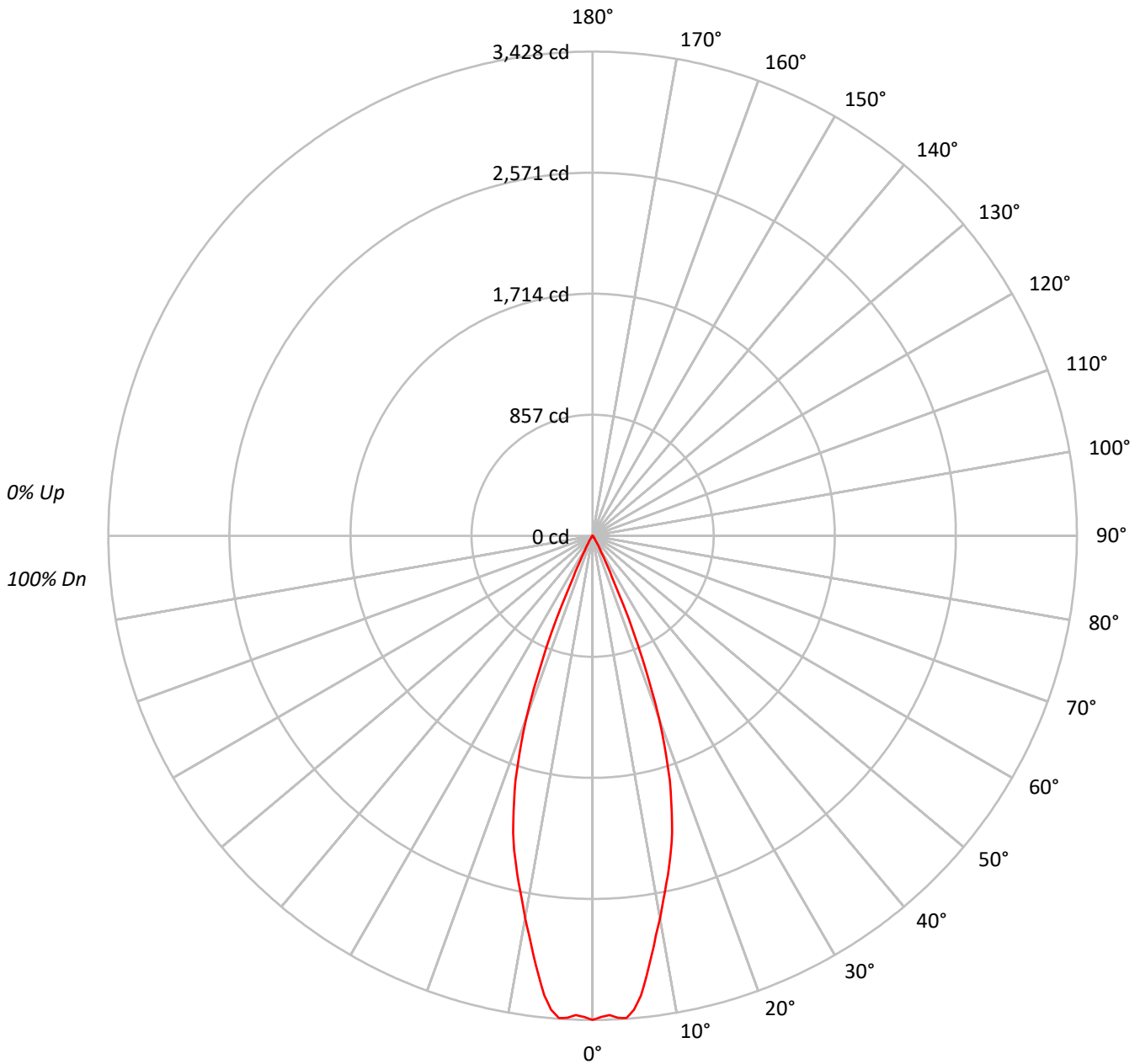
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	422767
5°	417077
10°	344346
15°	277626
20°	179658
25°	43864
30°	10540
35°	2650
40°	837
45°	174
50°	96
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°	298.4	26.8
10°-20°	583.1	52.4
20°-30°	215.8	19.4
30°-40°	15.2	1.4
40°-50°	1.3	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°	1097.3	98.5
0°-40°	1112.5	99.9
0°-60°	1113.8	100.0
0°-90°	1113.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3428	
5°	3368	298
15°	2174	583
25°	322	216
35°	18	15
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°	3427.5
1°	3407.3
2°	3396.4
3°	3417.6
4°	3422.8
5°	3368.5
6°	3271.8
7°	3136.8
8°	3000.2
9°	2865.2
10°	2749.3
11°	2624.7
12°	2514.5
13°	2404.8
14°	2293.6
15°	2174.1
17.5°	1816.2
20°	1368.7
22.5°	846.8
25°	322.3
27.5°	132.4
30°	74.0
32.5°	35.2
35°	17.6
37.5°	9.3
40°	5.2
42.5°	2.6
45°	1.0
47.5°	0.5
50°	0.5
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)