

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: P170662

Luminaire Tested: **LDA4A13830D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170662  
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: LDA4A13830D010TE 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: 1653.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 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

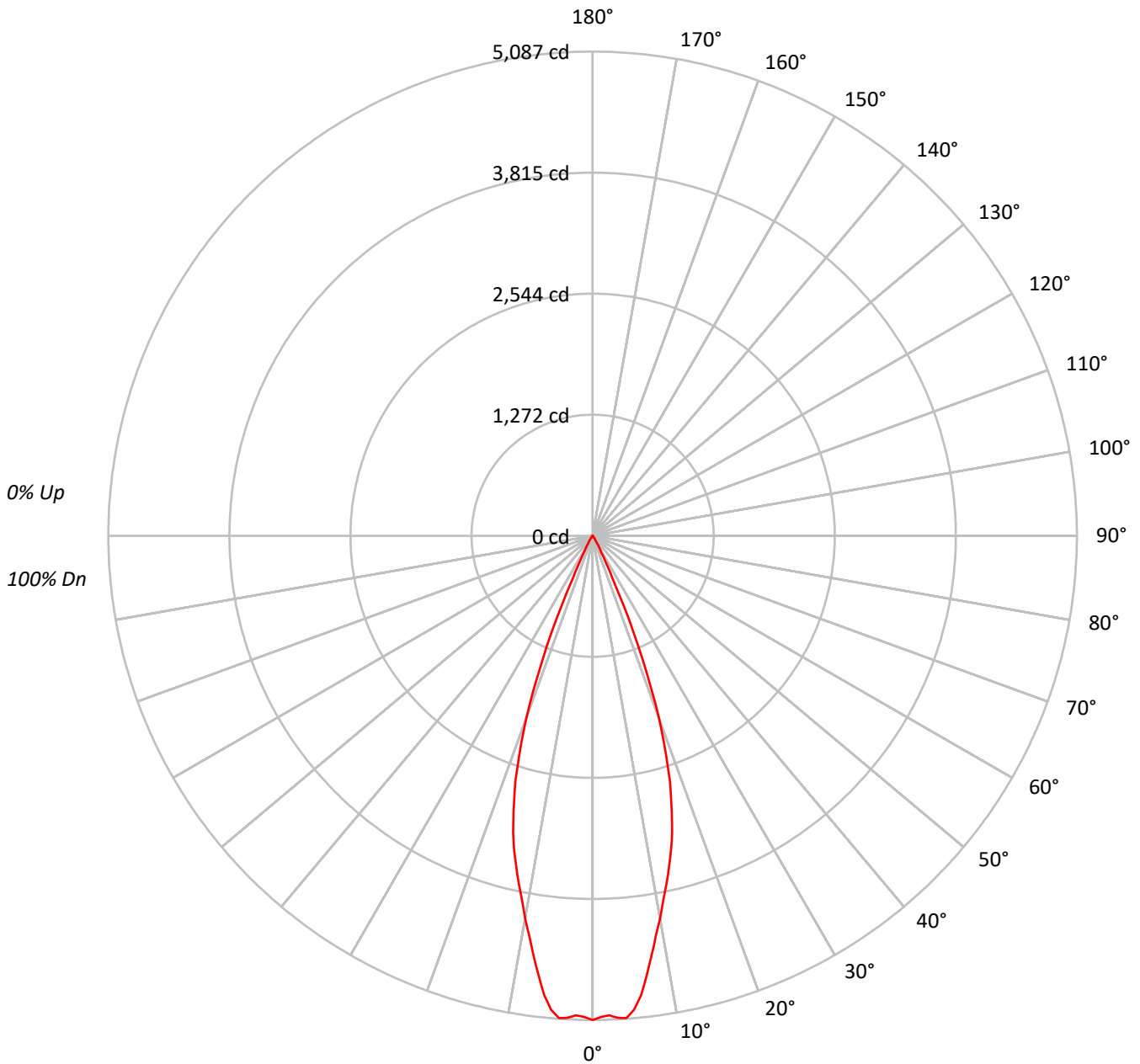
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				70				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	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93	93	93	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90	90	90	90
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	87	87	87
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	84	84	84
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	81	81	81
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78	78	78	78
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74	74	74	74
10	87	80	76	73	86	79	76	73	79	75	73	78	75	72	78	75	72	71	71	71	71

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

	0°
0°	627410
5°	618973
10°	511039
15°	412014
20°	266632
25°	65095
30°	15639
35°	3930
40°	1240
45°	262
50°	154
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°	442.8	26.8
10°-20°	865.4	52.4
20°-30°	320.2	19.4
30°-40°	22.6	1.4
40°-50°	1.9	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°	1628.4	98.5
0°-40°	1651.0	99.9
0°-60°	1653.0	100.0
0°-90°	1653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1653.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5087	
5°	4999	443
15°	3226	865
25°	478	320
35°	26	23
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5086.6
1°	5056.7
2°	5040.6
3°	5072.0
4°	5079.7
5°	4999.1
6°	4855.5
7°	4655.2
8°	4452.5
9°	4252.2
10°	4080.2
11°	3895.2
12°	3731.7
13°	3568.9
14°	3403.9
15°	3226.5
17.5°	2695.3
20°	2031.3
22.5°	1256.7
25°	478.3
27.5°	196.5
30°	109.8
32.5°	52.2
35°	26.1
37.5°	13.8
40°	7.7
42.5°	3.8
45°	1.5
47.5°	0.8
50°	0.8
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)