

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: P170568

Luminaire Tested: **LDA4A13840D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26146)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A13840D010TE LAR35FL 4LAL1  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° 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: 1616.7 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

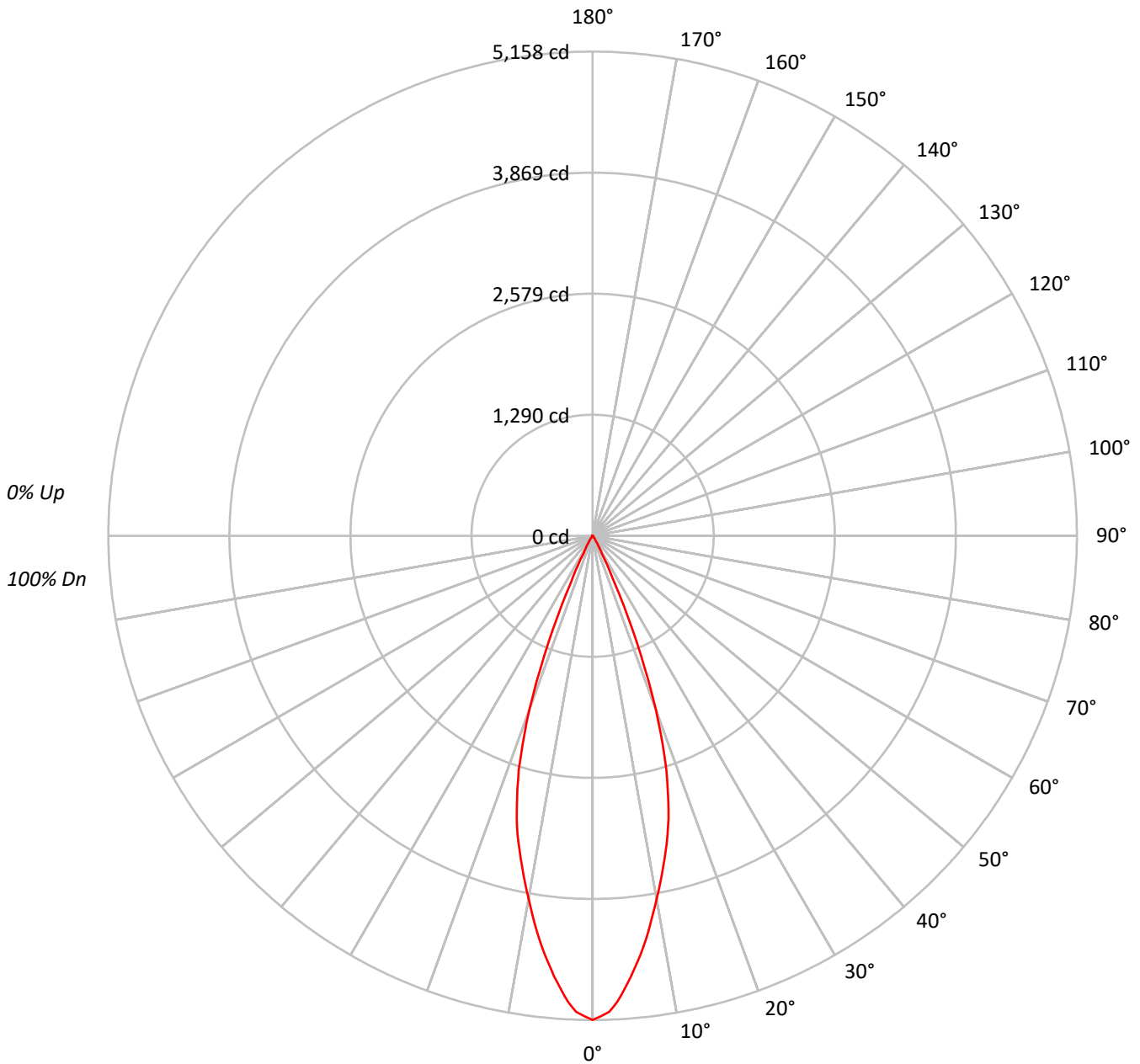
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	636278
5°	583251
10°	491901
15°	398874
20°	258310
25°	74472
30°	16265
35°	4608
40°	1739
45°	715
50°	326
55°	172
60°	197
65°	233
70°	289
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.4	26.3
10°-20°	838.0	51.8
20°-30°	322.8	20.0
30°-40°	25.6	1.6
40°-50°	3.7	0.2
50°-60°	0.8	0.1
60°-70°	0.8	0.0
70°-80°	0.3	0.0
80°-90°	0.4	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°	1585.3	98.1
0°-40°	1610.9	99.6
0°-60°	1615.4	99.9
0°-90°	1616.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1616.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5158	
5°	4711	424
15°	3124	838
25°	547	323
35°	31	26
45°	4	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5158.5
1°	5117.1
2°	5074.9
3°	4975.5
4°	4844.7
5°	4710.6
6°	4563.2
7°	4420.0
8°	4261.9
9°	4090.5
10°	3927.4
11°	3771.8
12°	3609.5
13°	3454.7
14°	3296.6
15°	3123.6
17.5°	2615.2
20°	1967.9
22.5°	1216.1
25°	547.2
27.5°	210.3
30°	114.2
32.5°	58.8
35°	30.6
37.5°	18.2
40°	10.8
42.5°	6.6
45°	4.1
47.5°	2.5
50°	1.7
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.0
75°	0.0
77.5°	0.8
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°		0.8



(END OF REPORT)