

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: P170595

Luminaire Tested: **LDA4A09935D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26141)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A09935D010TE LAR15SP 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 851.5 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

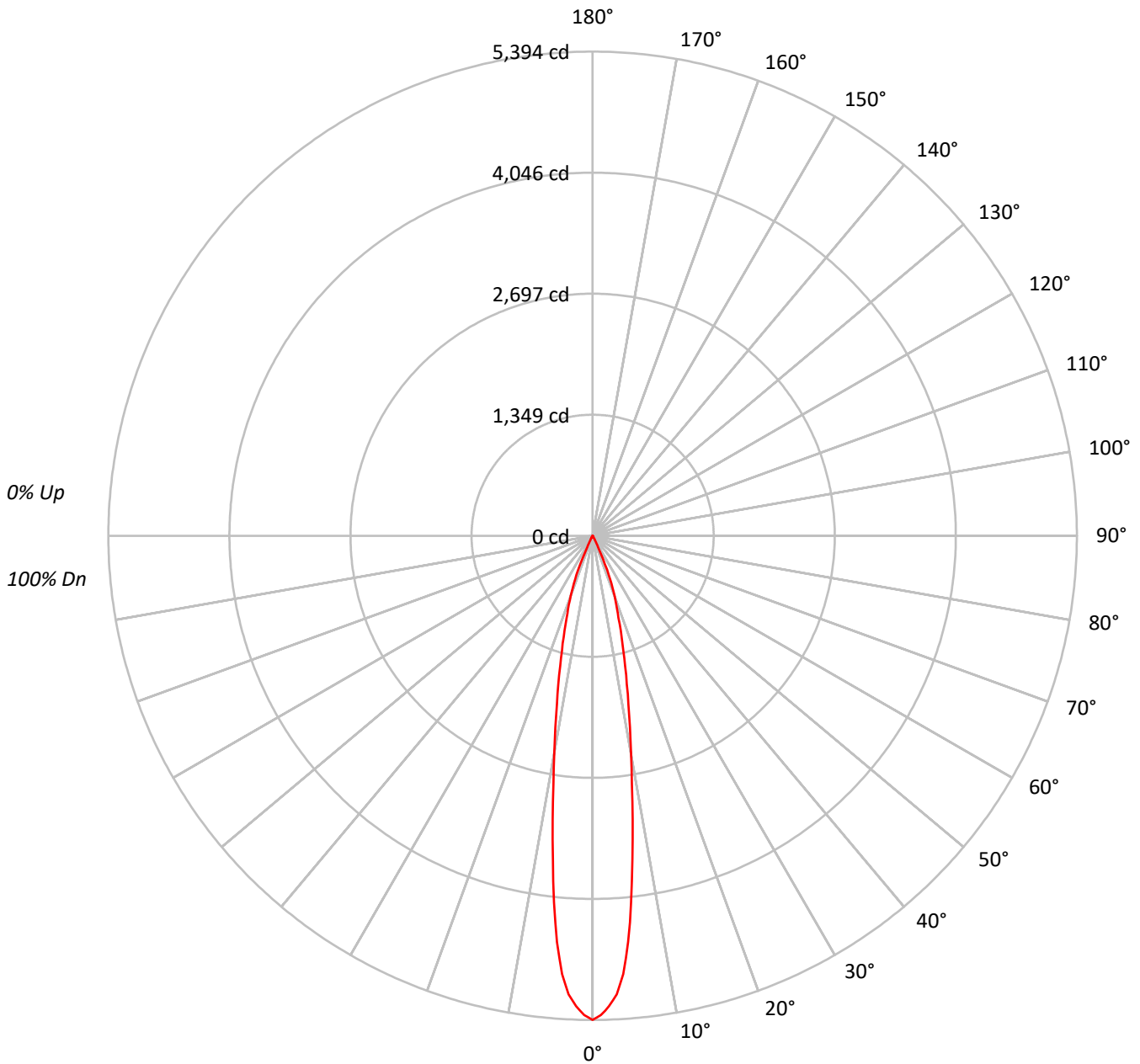
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	93	92
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92	92	91	90
4	106	101	97	94	104	100	97	94	98	95	93	96	94	92	94	92	91	90	89	88	88
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88	86	85	85
6	100	95	91	88	99	94	91	88	93	90	87	92	89	87	91	88	86	85	84	83	83
7	98	92	88	86	97	92	88	86	91	87	85	90	87	85	89	86	84	83	82	81	81
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81	80	80	80
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	79	79	79
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78	78	78	78

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

	0°
0°	665314
5°	562537
10°	308286
15°	168279
20°	93747
25°	21667
30°	4187
35°	1205
40°	435
45°	157
50°	0
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°	357.8	42.0
10°-20°	374.3	44.0
20°-30°	112.2	13.2
30°-40°	6.5	0.8
40°-50°	0.7	0.1
50°-60°	0.0	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°	844.3	99.2
0°-40°	850.8	99.9
0°-60°	851.5	100.0
0°-90°	851.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5394	
5°	4543	358
15°	1318	374
25°	159	112
35°	8	6
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°	5393.9
1°	5340.9
2°	5245.0
3°	5116.6
4°	4894.6
5°	4543.3
6°	4108.7
7°	3635.6
8°	3196.1
9°	2794.4
10°	2461.4
11°	2172.9
12°	1916.6
13°	1695.0
14°	1496.6
15°	1317.8
17.5°	957.6
20°	714.2
22.5°	470.8
25°	159.2
27.5°	55.3
30°	29.4
32.5°	14.7
35°	8.0
37.5°	4.5
40°	2.7
42.5°	1.3
45°	0.9
47.5°	0.4
50°	0.0
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)