

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: P170591

Luminaire Tested: **LDA4A09835D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170591  
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: LDA4A09835D010TE LAR15SP 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1038.8 lumens  
Efficiency: N/A  
Efficacy: 75.1 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

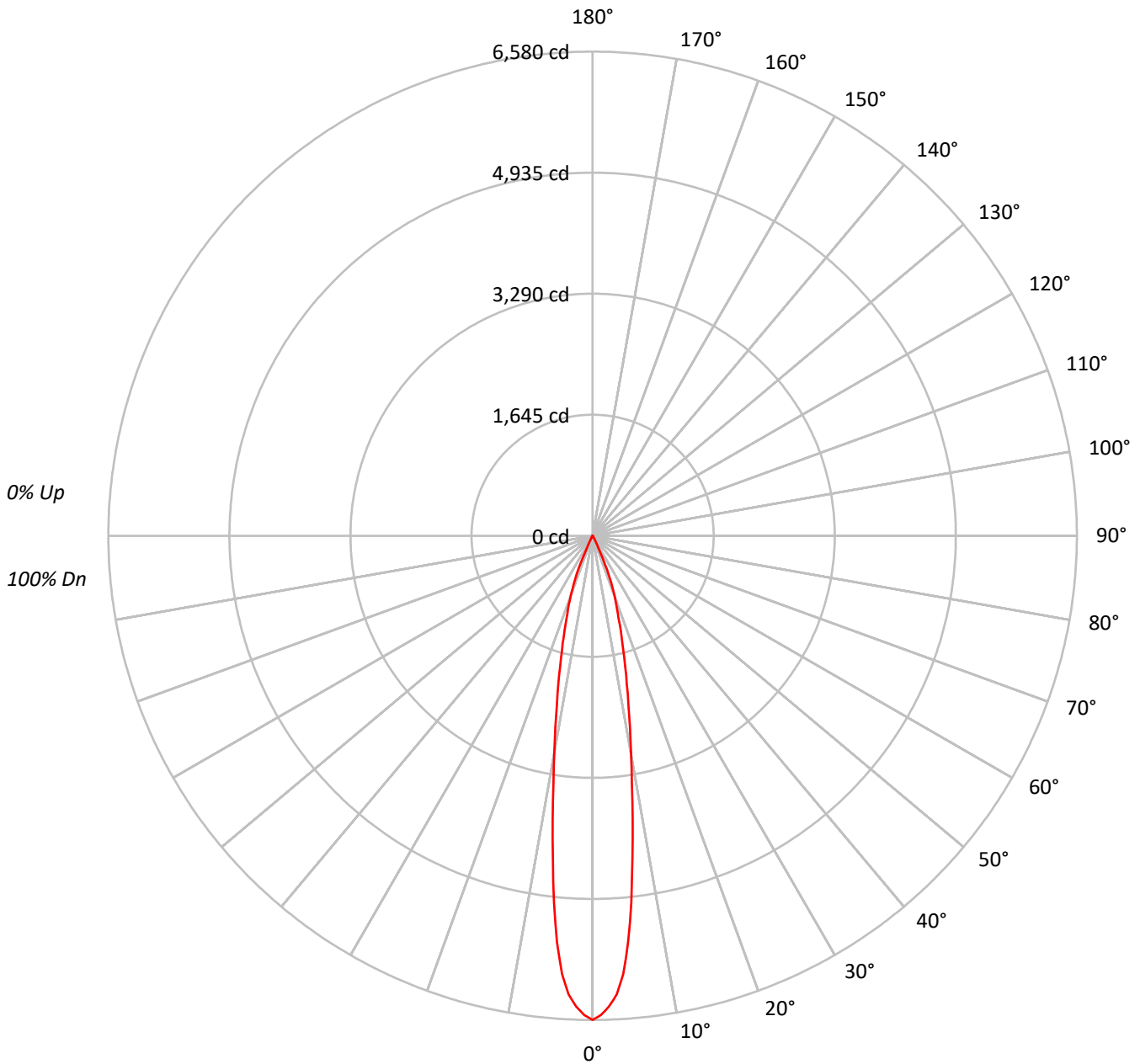
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	78
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78	77	76	75

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

	0°
0°	811639
5°	686255
10°	376083
15°	205298
20°	114368
25°	26430
30°	5113
35°	1476
40°	531
45°	192
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°	436.5	42.0
10°-20°	456.6	44.0
20°-30°	136.9	13.2
30°-40°	7.9	0.8
40°-50°	0.9	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°	1030.0	99.2
0°-40°	1037.9	99.9
0°-60°	1038.8	100.0
0°-90°	1038.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6580	
5°	5542	436
15°	1608	457
25°	194	137
35°	10	8
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°	6580.2
1°	6515.5
2°	6398.6
3°	6241.9
4°	5971.1
5°	5542.5
6°	5012.3
7°	4435.2
8°	3899.0
9°	3409.0
10°	3002.7
11°	2650.8
12°	2338.1
13°	2067.8
14°	1825.8
15°	1607.7
17.5°	1168.2
20°	871.3
22.5°	574.3
25°	194.2
27.5°	67.4
30°	35.9
32.5°	17.9
35°	9.8
37.5°	5.4
40°	3.3
42.5°	1.6
45°	1.1
47.5°	0.5
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)