

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: P170606

Luminaire Tested: **LDA4A28830D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170606  
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: LDA4A28830D010TE LAR15SP 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

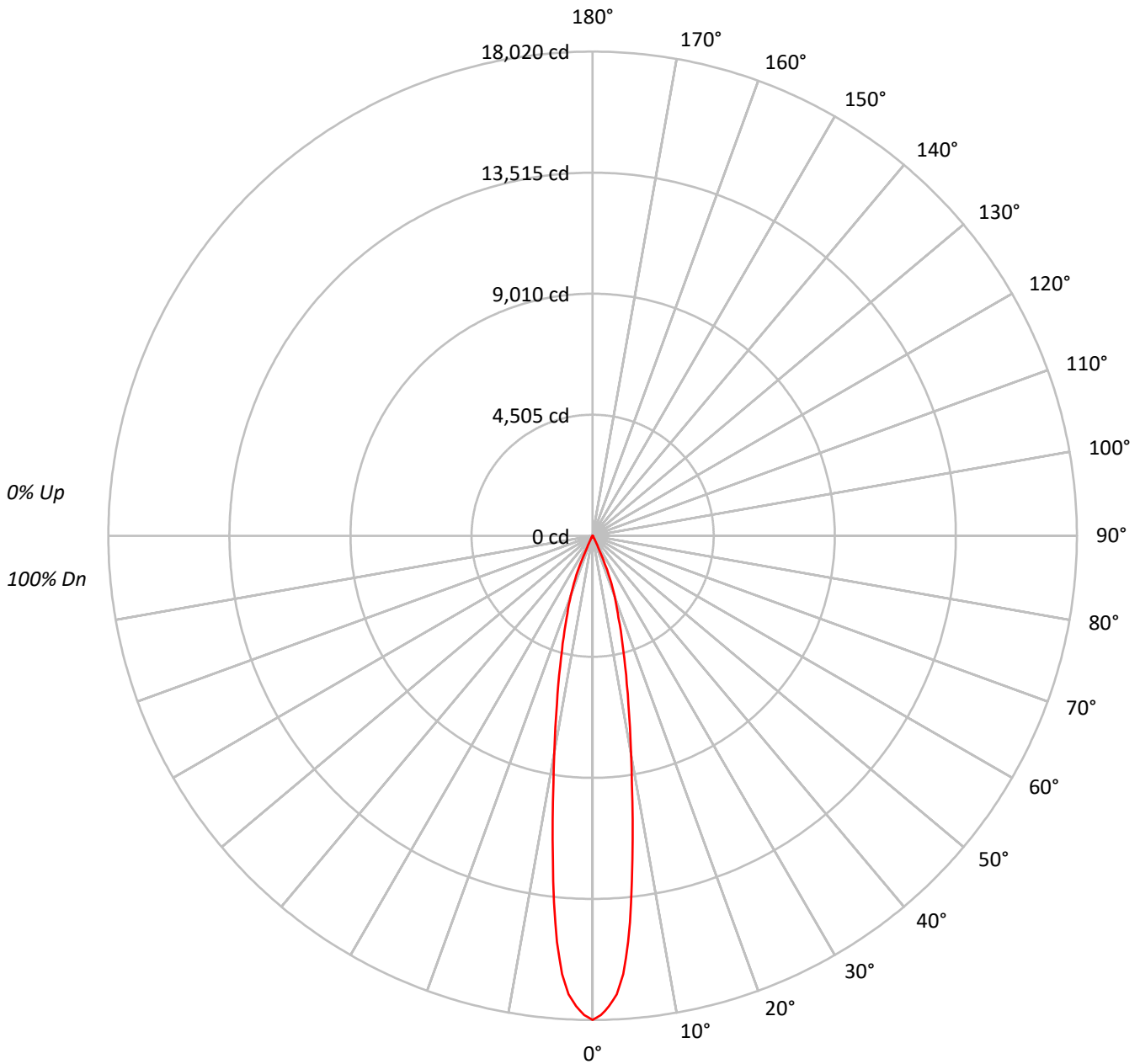
Lumens per Lamp: N/A  
Luminaire Lumens: 2844.7 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 44.49  
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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97			97																
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95			95																
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92			92																
4	106	101	97	94	104	100	97	94	98	95	93	96	94	92	94	92	91	90			90																
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88			88																
6	100	95	91	88	99	94	91	88	93	90	87	92	89	87	91	88	86	85			85																
7	98	92	88	86	97	92	88	86	91	87	85	90	87	85	89	86	84	83			83																
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81			81																
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80			80																
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78			78																

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

	0°
0°	2222639
5°	1879279
10°	1029880
15°	562185
20°	313177
25°	72363
30°	14001
35°	4035
40°	1433
45°	523
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°	1195.2	42.0
10°-20°	1250.4	44.0
20°-30°	374.9	13.2
30°-40°	21.7	0.8
40°-50°	2.5	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°	2820.5	99.1
0°-40°	2842.2	99.9
0°-60°	2844.7	100.0
0°-90°	2844.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18020	
5°	15178	###
15°	4402	1250
25°	532	375
35°	27	22
45°	3	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18019.6
1°	17842.3
2°	17522.1
3°	17093.2
4°	16351.5
5°	15177.9
6°	13725.8
7°	12145.6
8°	10677.1
9°	9335.2
10°	8222.7
11°	7259.1
12°	6402.7
13°	5662.5
14°	4999.7
15°	4402.5
17.5°	3199.1
20°	2385.9
22.5°	1572.7
25°	531.7
27.5°	184.7
30°	98.3
32.5°	49.1
35°	26.8
37.5°	14.9
40°	8.9
42.5°	4.5
45°	3.0
47.5°	1.5
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)