

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: P170605

Luminaire Tested: **LDA4A28827D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170605  
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: LDA4A28827D010TE LAR15SP 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

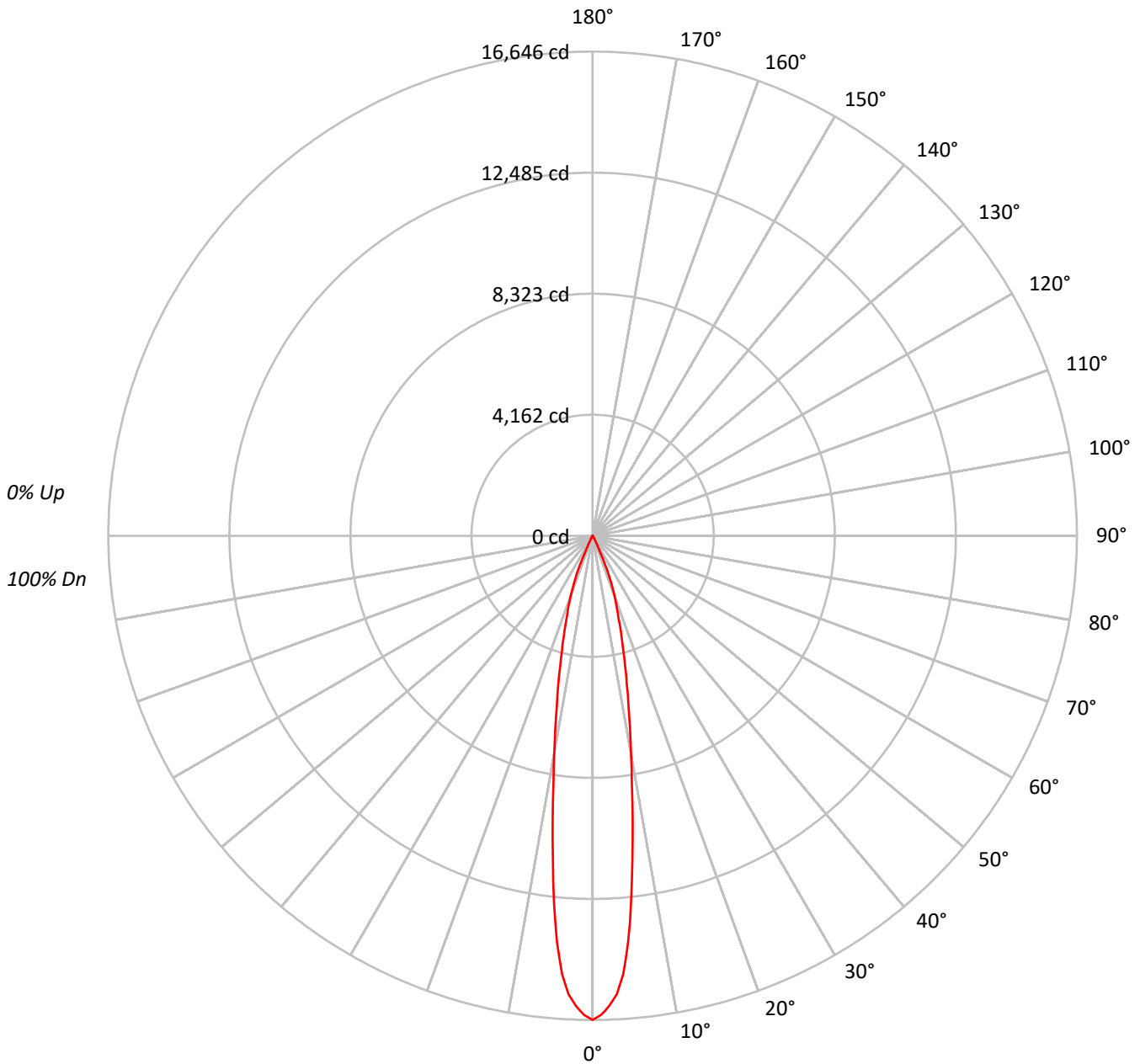
Lumens per Lamp: N/A  
Luminaire Lumens: 2627.9 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P170605  
CATALOG NUMBER: LDA4A28827D010TE LAR15SP 4LFC1

### Luminous Intensity Polar Plot





TEST NUMBER: P170605

CATALOG NUMBER: LDA4A28827D010TE LAR15SP 4LFC1

**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	87	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°	2053224
5°	1736048
10°	951375
15°	519330
20°	289314
25°	66851
30°	12932
35°	3734
40°	1336
45°	488
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170605

CATALOG NUMBER: LDA4A28827D010TE LAR15SP 4LFC1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1104.1	42.0
10°-20°	1155.1	44.0
20°-30°	346.3	13.2
30°-40°	20.1	0.8
40°-50°	2.3	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°	2605.5	99.1
0°-40°	2625.6	99.9
0°-60°	2627.9	100.0
0°-90°	2627.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16646	
5°	14021	###
15°	4067	1155
25°	491	346
35°	25	20
45°	3	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170605

CATALOG NUMBER: LDA4A28827D010TE LAR15SP 4LFC1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16646.1
1°	16482.4
2°	16186.6
3°	15790.4
4°	15105.2
5°	14021.1
6°	12679.6
7°	11219.9
8°	9863.3
9°	8623.7
10°	7595.9
11°	6705.8
12°	5914.7
13°	5230.9
14°	4618.7
15°	4066.9
17.5°	2955.3
20°	2204.1
22.5°	1452.9
25°	491.2
27.5°	170.6
30°	90.8
32.5°	45.4
35°	24.8
37.5°	13.8
40°	8.3
42.5°	4.1
45°	2.8
47.5°	1.4
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



TEST NUMBER: P170605

CATALOG NUMBER: LDA4A28827D010TE LAR15SP 4LFC1

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)