

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: P170389

Luminaire Tested: **LDA4A18827D010TE LAR15SP 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25628)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A18827D010TE LAR15SP 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

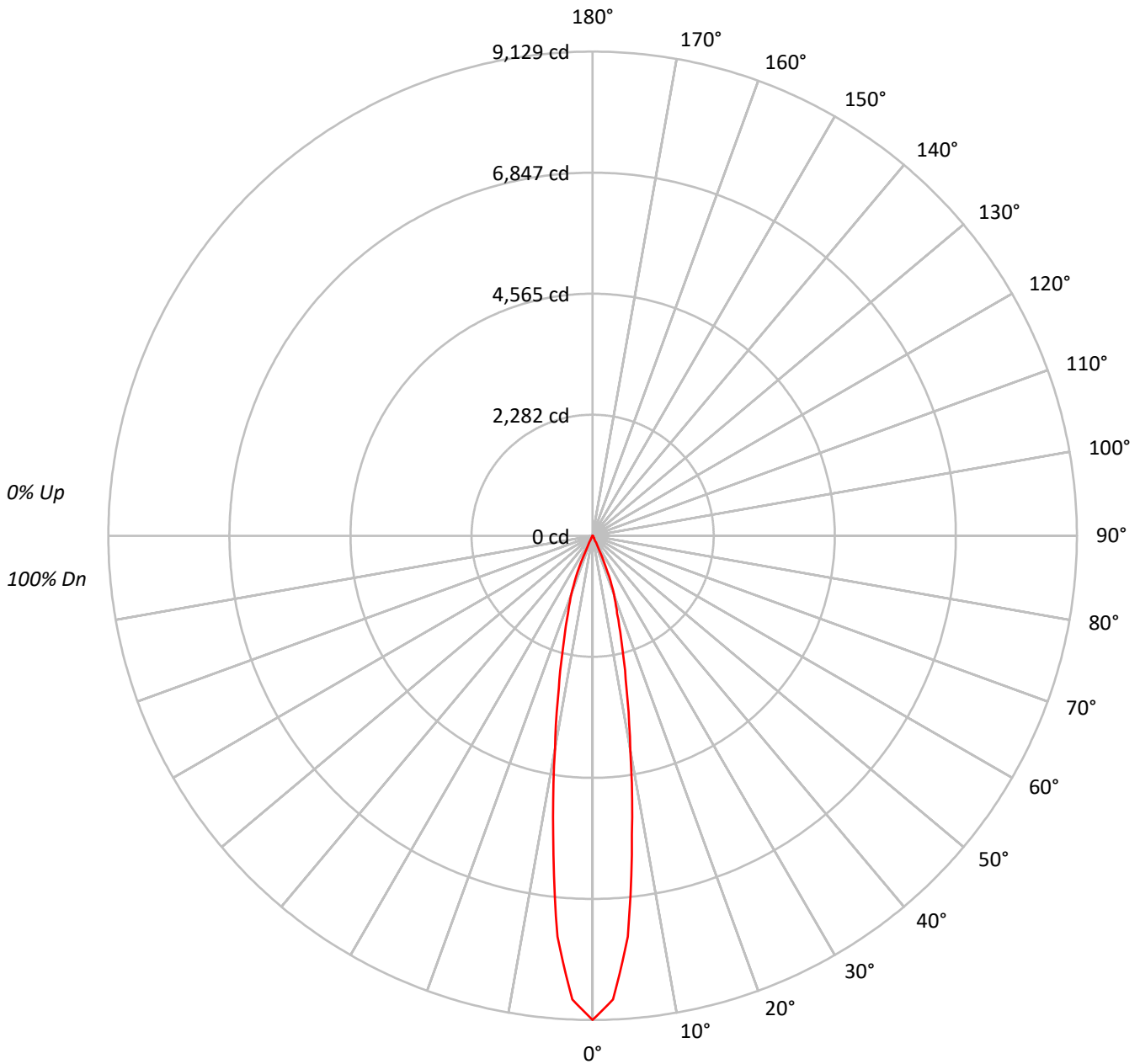
Lumens per Lamp: N/A
Luminaire Lumens: 1402.4 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.35
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (A_{in}): 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: P170389
CATALOG NUMBER: LDA4A18827D010TE LAR15SP 4LA1

Luminous Intensity Polar Plot





TEST NUMBER: P170389

CATALOG NUMBER: LDA4A18827D010TE LAR15SP 4LA1

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	102	104	102	100	101	100	98	98	97	96	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82
9	94	88	84	82	93	87	84	82	87	84	81	86	83	81	85	83	81	80
10	92	86	82	80	91	85	82	80	85	82	80	84	81	79	84	81	79	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1125985
5°	939373
10°	510713
15°	271292
20°	154534
25°	30254
30°	6253
35°	1852
40°	708
45°	314
50°	173
55°	194
60°	222
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170389

CATALOG NUMBER: LDA4A18827D010TE LAR15SP 4LA1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.5	42.9
10°-20°	612.8	43.7
20°-30°	175.8	12.5
30°-40°	10.0	0.7
40°-50°	1.5	0.1
50°-60°	0.8	0.1
60°-70°	0.1	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°	1390.0	99.1
0°-40°	1400.0	99.8
0°-60°	1402.3	100.0
0°-90°	1402.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9129	
5°	7587	601
15°	2124	613
25°	222	176
35°	12	10
45°	2	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170389

CATALOG NUMBER: LDA4A18827D010TE LAR15SP 4LA1

CANDELA DISTRIBUTION (FULL):

	0°
0°	9128.7
2.5°	8750.9
5°	7586.8
7.5°	5683.7
10°	4077.6
12.5°	2940.7
15°	2124.5
17.5°	1537.6
20°	1177.3
22.5°	742.4
25°	222.3
27.5°	85.2
30°	43.9
32.5°	22.8
35°	12.3
37.5°	7.0
40°	4.4
42.5°	2.6
45°	1.8
47.5°	0.9
50°	0.9
52.5°	0.9
55°	0.9
57.5°	0.9
60°	0.9
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)