

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: P170395

Luminaire Tested: **LDA4A18935D010TE LAR15SP 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170395
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: LDA4A18935D010TE LAR15SP 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, 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: 1308.3 lumens
Efficiency: N/A
Efficacy: 44.9 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

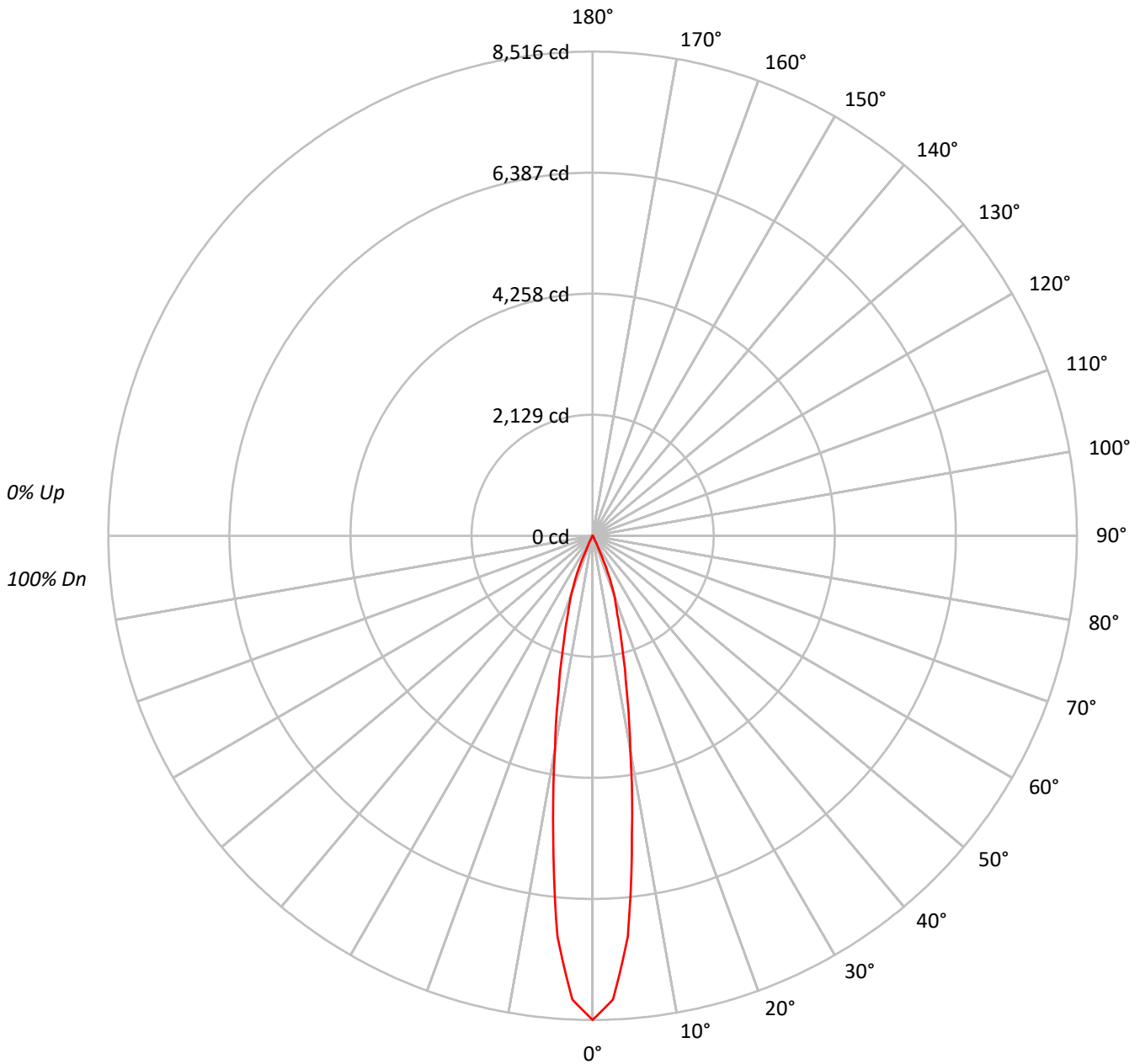
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170395

CATALOG NUMBER: LDA4A18935D010TE LAR15SP 4LA1

Luminous Intensity Polar Plot





TEST NUMBER: P170395

CATALOG NUMBER: LDA4A18935D010TE LAR15SP 4LA1

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1050424
5°	876326
10°	476445
15°	253082
20°	144165
25°	28226
30°	5840
35°	1732
40°	660
45°	279
50°	154
55°	172
60°	197
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170395

CATALOG NUMBER: LDA4A18935D010TE LAR15SP 4LA1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.1	42.9
10°-20°	571.6	43.7
20°-30°	164.0	12.5
30°-40°	9.3	0.7
40°-50°	1.4	0.1
50°-60°	0.7	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°	1296.8	99.1
0°-40°	1306.1	99.8
0°-60°	1308.2	100.0
0°-90°	1308.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1308.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8516	
5°	7078	561
15°	1982	572
25°	207	164
35°	12	9
45°	2	1
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170395

CATALOG NUMBER: LDA4A18935D010TE LAR15SP 4LA1

CANDELA DISTRIBUTION (FULL):

	0°
0°	8516.1
2.5°	8163.7
5°	7077.6
7.5°	5302.3
10°	3804.0
12.5°	2743.4
15°	1981.9
17.5°	1434.4
20°	1098.3
22.5°	692.6
25°	207.4
27.5°	79.5
30°	41.0
32.5°	21.3
35°	11.5
37.5°	6.6
40°	4.1
42.5°	2.5
45°	1.6
47.5°	0.8
50°	0.8
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
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)