

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: P170584

Luminaire Tested: **LDA4A18840D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170584
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: LDA4A18840D010TE LAR15SP 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1959.0 lumens
Efficiency: N/A
Efficacy: 67.3 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

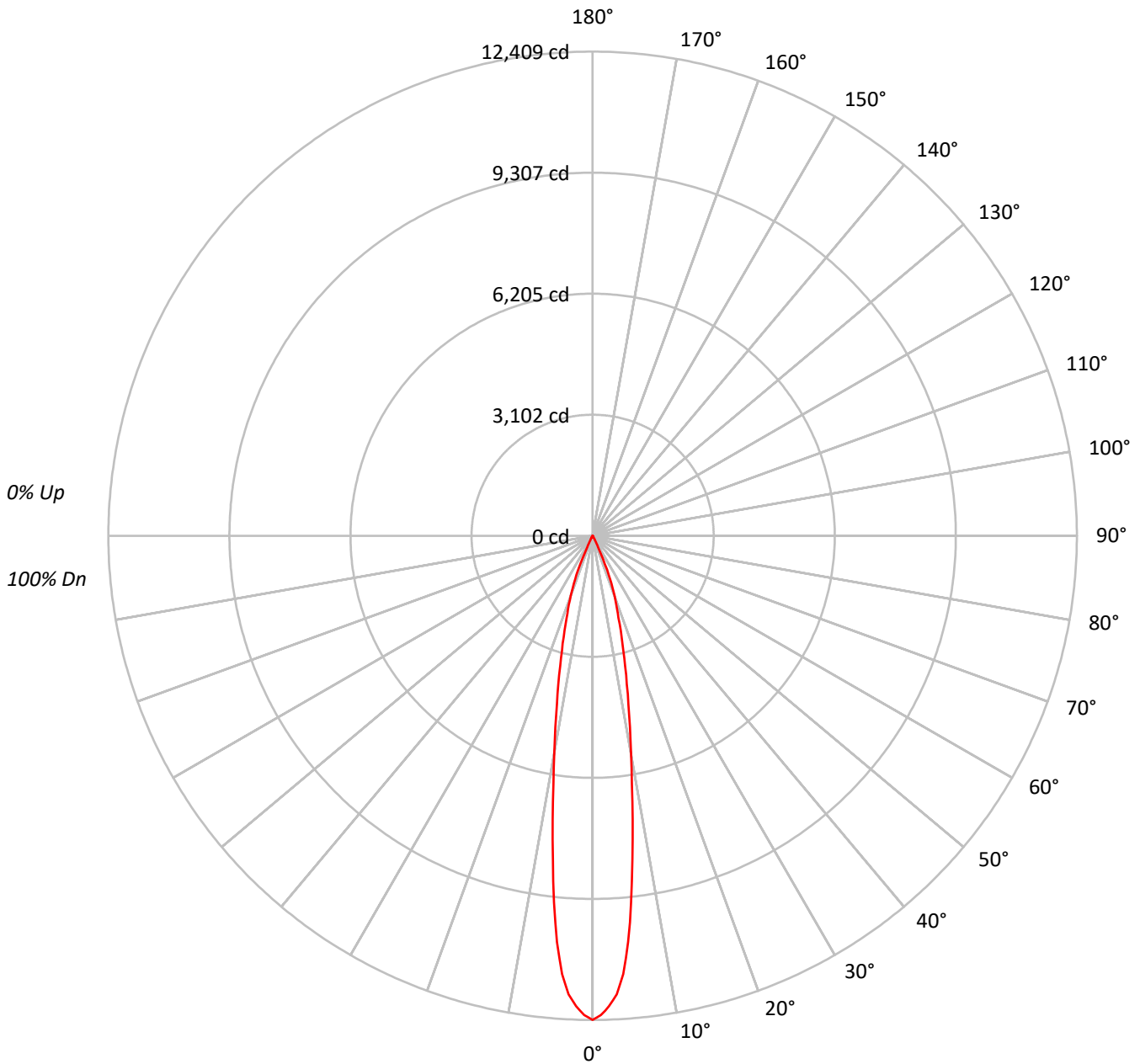
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170584

CATALOG NUMBER: LDA4A18840D010TE LAR15SP 4LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P170584

CATALOG NUMBER: LDA4A18840D010TE 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°	1530547
5°	1294108
10°	709194
15°	387126
20°	215663
25°	49825
30°	9642
35°	2786
40°	998
45°	366
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170584

CATALOG NUMBER: LDA4A18840D010TE LAR15SP 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.0	42.0
10°-20°	861.1	44.0
20°-30°	258.2	13.2
30°-40°	14.9	0.8
40°-50°	1.7	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°	1942.3	99.1
0°-40°	1957.2	99.9
0°-60°	1959.0	100.0
0°-90°	1959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1959.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12409	
5°	10452	823
15°	3032	861
25°	366	258
35°	18	15
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170584

CATALOG NUMBER: LDA4A18840D010TE LAR15SP 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	12408.6
1°	12286.6
2°	12066.1
3°	11770.7
4°	11259.9
5°	10451.8
6°	9451.8
7°	8363.7
8°	7352.5
9°	6428.4
10°	5662.3
11°	4998.7
12°	4409.0
13°	3899.3
14°	3442.9
15°	3031.6
17.5°	2203.0
20°	1643.0
22.5°	1083.0
25°	366.1
27.5°	127.2
30°	67.7
32.5°	33.8
35°	18.5
37.5°	10.3
40°	6.2
42.5°	3.1
45°	2.1
47.5°	1.0
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: P170584

CATALOG NUMBER: LDA4A18840D010TE 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)