

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: P170609

Luminaire Tested: **LDA4A28927D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170609
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: LDA4A28927D010TE LAR15SP 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2110.4 lumens
Efficiency: N/A
Efficacy: 47.4 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

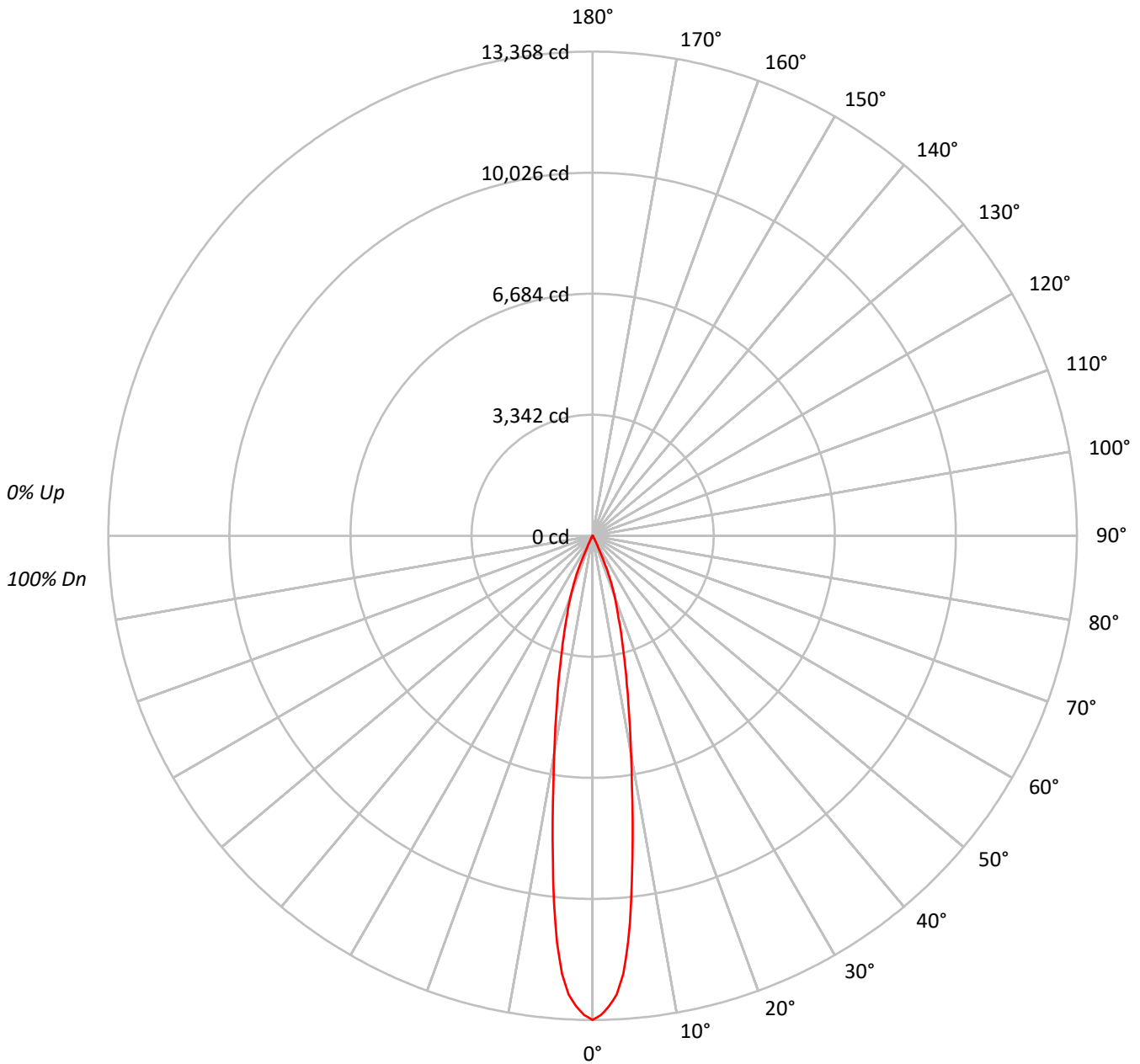
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1648909
5°	1394177
10°	764040
15°	417070
20°	232333
25°	53677
30°	10383
35°	2996
40°	1063
45°	384
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°	886.7	42.0
10°-20°	927.6	44.0
20°-30°	278.1	13.2
30°-40°	16.1	0.8
40°-50°	1.9	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°	2092.4	99.1
0°-40°	2108.5	99.9
0°-60°	2110.4	100.0
0°-90°	2110.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13368	
5°	11260	887
15°	3266	928
25°	394	278
35°	20	16
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13368.2
1°	13236.7
2°	12999.1
3°	12680.9
4°	12130.7
5°	11260.0
6°	10182.8
7°	9010.5
8°	7921.0
9°	6925.5
10°	6100.2
11°	5385.3
12°	4750.0
13°	4200.8
14°	3709.1
15°	3266.1
17.5°	2373.3
20°	1770.0
22.5°	1166.8
25°	394.4
27.5°	137.0
30°	72.9
32.5°	36.5
35°	19.9
37.5°	11.0
40°	6.6
42.5°	3.3
45°	2.2
47.5°	1.1
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)