

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: P170611

Luminaire Tested: **LDA4A28935D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170611
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: LDA4A28935D010TE LAR15SP 4LFC1
Description: PORTFOLIO 4" Flat Cone, 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: 2451.6 lumens
Efficiency: N/A
Efficacy: 55.1 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

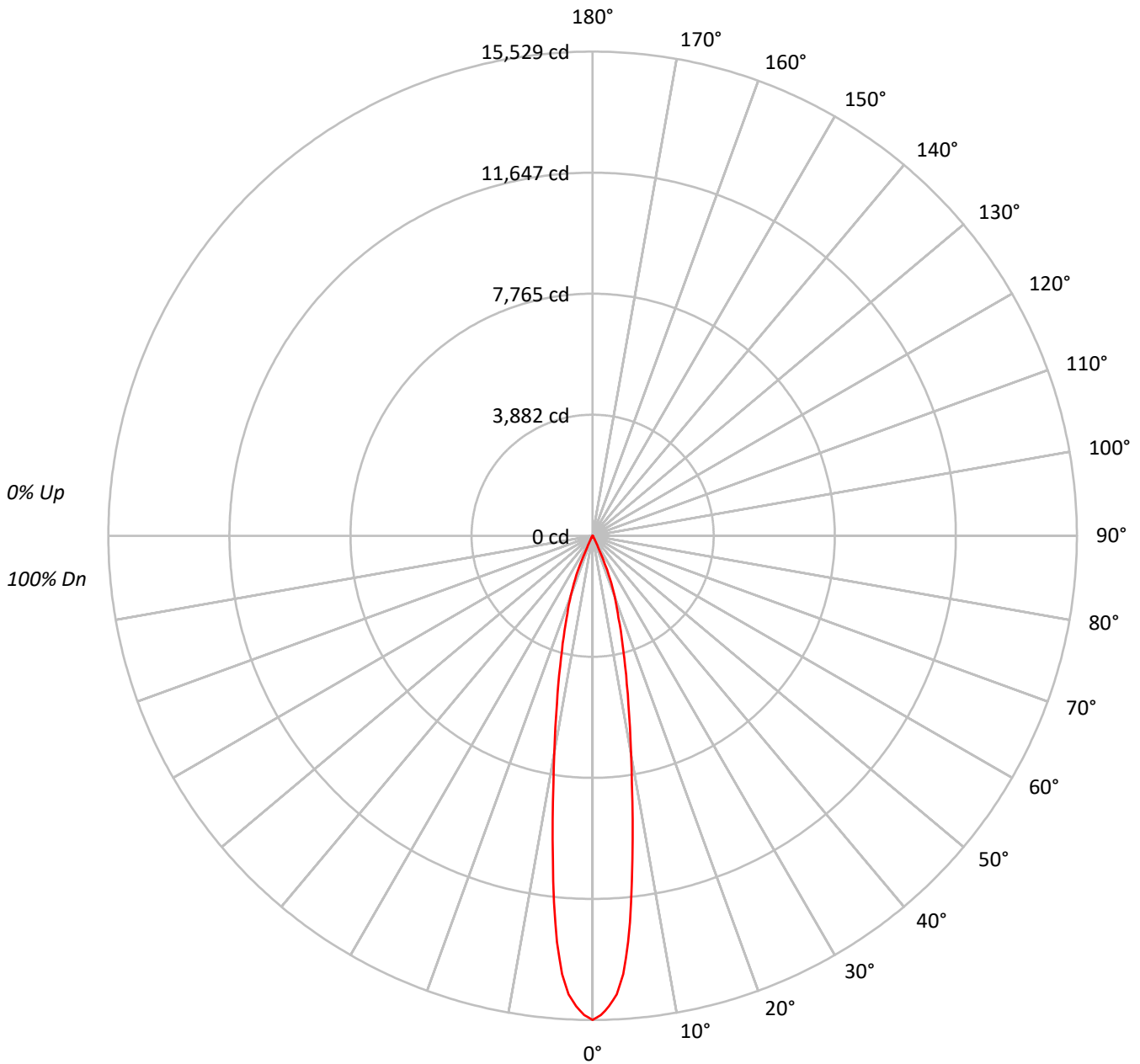
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1915447
5°	1619536
10°	887535
15°	484482
20°	269900
25°	62360
30°	12064
35°	3478
40°	1240
45°	454
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°	1030.0	42.0
10°-20°	1077.6	44.0
20°-30°	323.1	13.2
30°-40°	18.7	0.8
40°-50°	2.2	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°	2430.7	99.1
0°-40°	2449.4	99.9
0°-60°	2451.6	100.0
0°-90°	2451.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15529	
5°	13080	###
15°	3794	1078
25°	458	323
35°	23	19
45°	3	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15529.1
1°	15376.3
2°	15100.4
3°	14730.7
4°	14091.5
5°	13080.1
6°	11828.7
7°	10466.9
8°	9201.4
9°	8045.0
10°	7086.2
11°	6255.8
12°	5517.8
13°	4879.9
14°	4308.7
15°	3794.0
17.5°	2757.0
20°	2056.2
22.5°	1355.4
25°	458.2
27.5°	159.2
30°	84.7
32.5°	42.4
35°	23.1
37.5°	12.8
40°	7.7
42.5°	3.9
45°	2.6
47.5°	1.3
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)