

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: P170590

Luminaire Tested: **LDA4A09830D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170590
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: LDA4A09830D010TE LAR15SP 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 988.1 lumens
Efficiency: N/A
Efficacy: 71.4 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

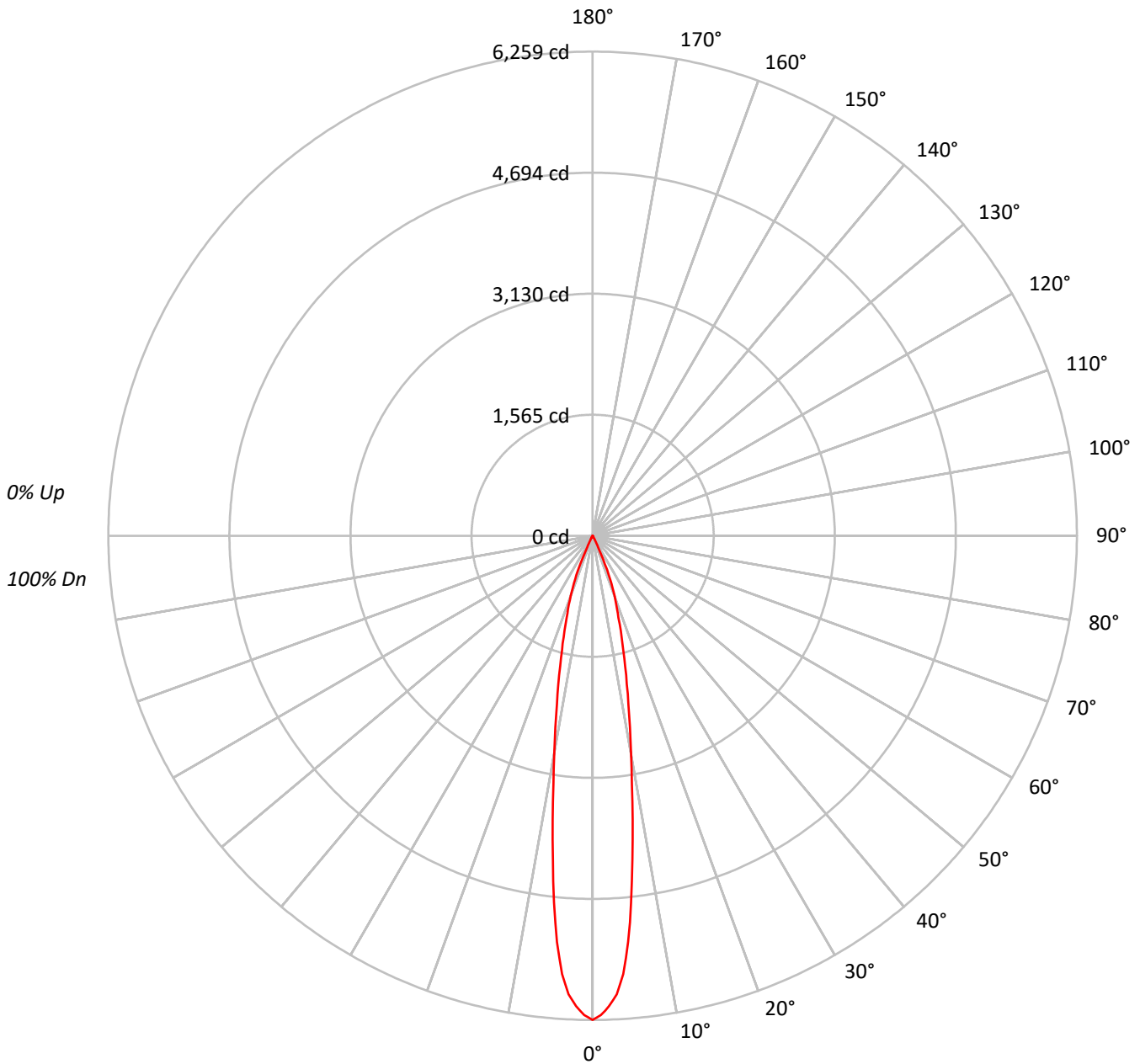
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
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	88	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°	772020
5°	652762
10°	357722
15°	195274
20°	108777
25°	25137
30°	4857
35°	1400
40°	499
45°	174
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°	415.1	42.0
10°-20°	434.3	44.0
20°-30°	130.2	13.2
30°-40°	7.5	0.8
40°-50°	0.9	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°	979.7	99.1
0°-40°	987.2	99.9
0°-60°	988.1	100.0
0°-90°	988.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	988.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6259	
5°	5272	415
15°	1529	434
25°	185	130
35°	9	8
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6259.0
1°	6197.5
2°	6086.2
3°	5937.2
4°	5679.6
5°	5272.0
6°	4767.6
7°	4218.7
8°	3708.6
9°	3242.5
10°	2856.1
11°	2521.4
12°	2223.9
13°	1966.8
14°	1736.6
15°	1529.2
17.5°	1111.2
20°	828.7
22.5°	546.3
25°	184.7
27.5°	64.1
30°	34.1
32.5°	17.1
35°	9.3
37.5°	5.2
40°	3.1
42.5°	1.6
45°	1.0
47.5°	0.5
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)