

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: P170636

Luminaire Tested: **LDA4A13940D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26142)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A13940D010TE LAR25NF 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1470.6 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

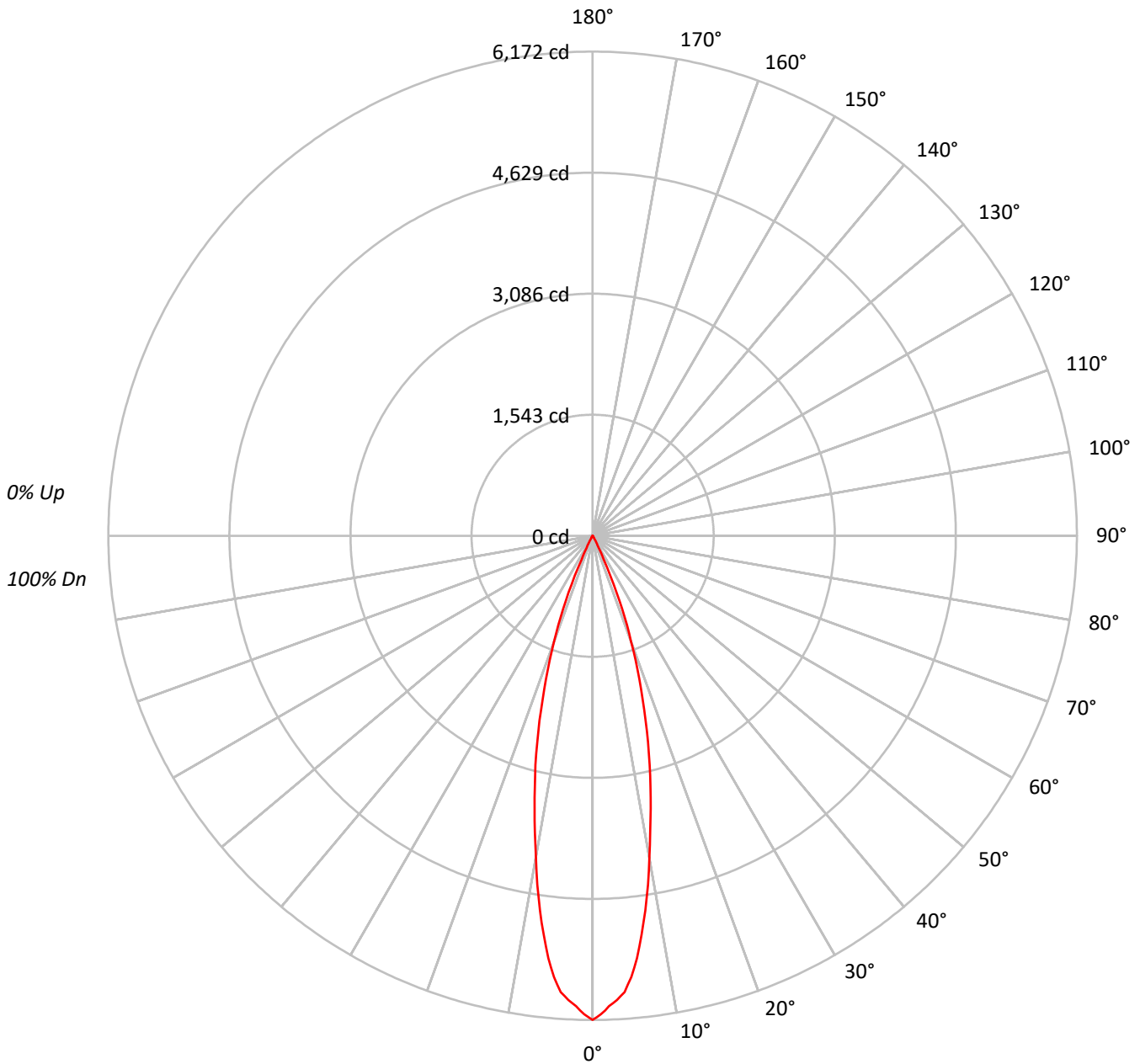
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97	97	97	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	91	91	91
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	86	86	86
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	83	83	83
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	81	81	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	76	76	76
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	74	74	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	761228
5°	699057
10°	522186
15°	347833
20°	188413
25°	44953
30°	10525
35°	2996
40°	1031
45°	366
50°	134
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°	489.3	33.3
10°-20°	737.8	50.2
20°-30°	225.3	15.3
30°-40°	16.3	1.1
40°-50°	1.9	0.1
50°-60°	0.1	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°	1452.3	98.8
0°-40°	1468.6	99.9
0°-60°	1470.6	100.0
0°-90°	1470.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1470.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6172	
5°	5646	489
15°	2724	738
25°	330	225
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°	6171.5
1°	6101.9
2°	6001.7
3°	5926.4
4°	5830.5
5°	5645.9
6°	5413.6
7°	5123.1
8°	4823.4
9°	4503.8
10°	4169.2
11°	3850.3
12°	3558.4
13°	3278.6
14°	3008.7
15°	2723.9
17.5°	2046.3
20°	1435.4
22.5°	895.6
25°	330.3
27.5°	133.5
30°	73.9
32.5°	36.9
35°	19.9
37.5°	11.4
40°	6.4
42.5°	3.6
45°	2.1
47.5°	0.7
50°	0.7
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)