

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: P170655

Luminaire Tested: **LDA4A09835D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26143)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A09835D010TE LAR35FL 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1171.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

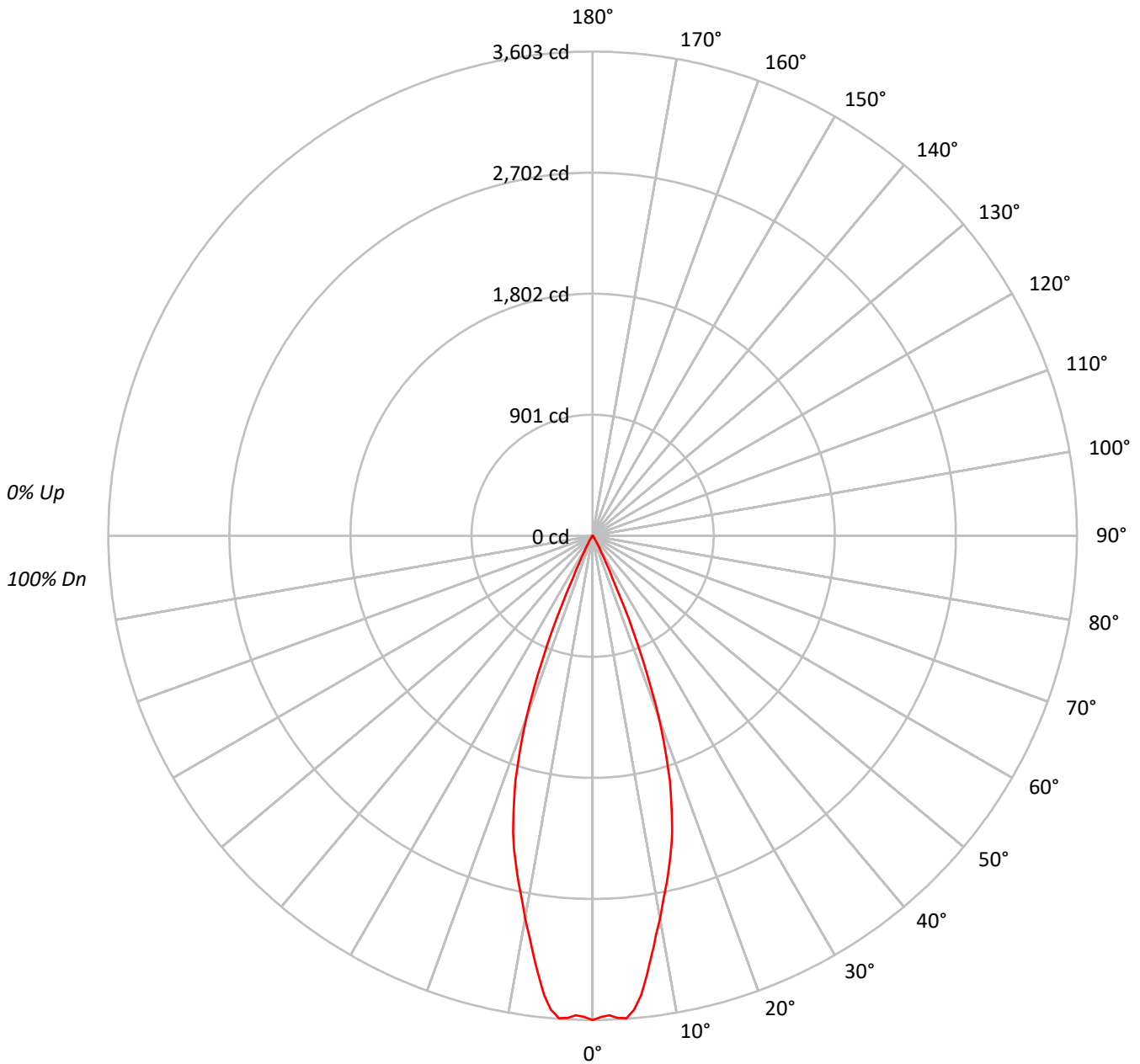
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
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									100																		
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	97	96	94	93	92	91	90	89	88	87	85	84	81														
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93	92	91	90	89	88	87	85	84	81																		
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90	89	88	87	85	84	81																					
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	85	84	81																								
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	81																										
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81																											
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78																											
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76																											
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74																											
10	87	80	76	73	86	79	76	73	79	75	73	78	75	72	78	75	72	71																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	444464
5°	438485
10°	362018
15°	291877
20°	188886
25°	46110
30°	11081
35°	2786
40°	869
45°	192
50°	96
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°	313.7	26.8
10°-20°	613.0	52.4
20°-30°	226.8	19.4
30°-40°	16.0	1.4
40°-50°	1.4	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°	1153.6	98.5
0°-40°	1169.6	99.9
0°-60°	1171.0	100.0
0°-90°	1171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1171.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3603	
5°	3541	314
15°	2286	613
25°	339	227
35°	18	16
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°	3603.4
1°	3582.2
2°	3570.7
3°	3593.0
4°	3598.5
5°	3541.4
6°	3439.7
7°	3297.7
8°	3154.2
9°	3012.2
10°	2890.4
11°	2759.4
12°	2643.5
13°	2528.2
14°	2411.3
15°	2285.7
17.5°	1909.4
20°	1439.0
22.5°	890.2
25°	338.8
27.5°	139.2
30°	77.8
32.5°	37.0
35°	18.5
37.5°	9.8
40°	5.4
42.5°	2.7
45°	1.1
47.5°	0.5
50°	0.5
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)