

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: P170661

Luminaire Tested: **LDA4A13827D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170661  
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: LDA4A13827D010TE LAR35FL 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

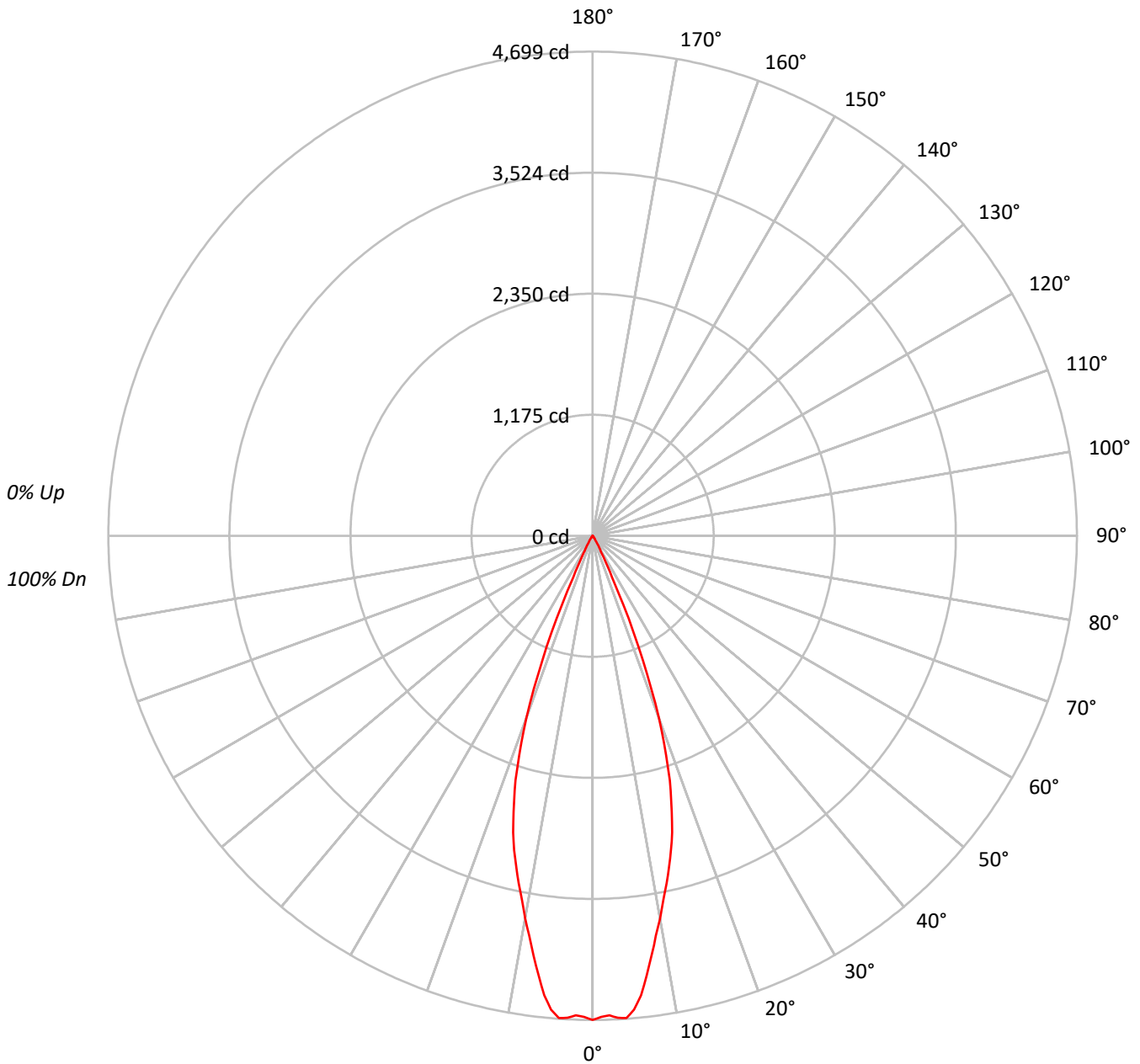
Lumens per Lamp: N/A  
Luminaire Lumens: 1527.0 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 22.27  
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																										
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	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	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	91	90	88	87	85	84	81	79	78	76	74	71																								
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90	88	87	85	84	81	79	78	76	74	71																										
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	85	84	81	79	78	76	74	71																												
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	81	79	78	76	74	71																														
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	79	78	76	74	71																															
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78	76	74	71																																	
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	74	71																																		
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74	71																																			
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°	579589
5°	571798
10°	472086
15°	380613
20°	246299
25°	60128
30°	14442
35°	3629
40°	1143
45°	244
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°	409.1	26.8
10°-20°	799.4	52.4
20°-30°	295.8	19.4
30°-40°	20.8	1.4
40°-50°	1.8	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°	1504.3	98.5
0°-40°	1525.1	99.9
0°-60°	1527.0	100.0
0°-90°	1527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4699	
5°	4618	409
15°	2981	799
25°	442	296
35°	24	21
45°	1	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4698.9
1°	4671.3
2°	4656.4
3°	4685.4
4°	4692.5
5°	4618.1
6°	4485.5
7°	4300.4
8°	4113.1
9°	3928.1
10°	3769.2
11°	3598.3
12°	3447.2
13°	3296.9
14°	3144.4
15°	2980.6
17.5°	2489.9
20°	1876.4
22.5°	1160.9
25°	441.8
27.5°	181.5
30°	101.4
32.5°	48.2
35°	24.1
37.5°	12.8
40°	7.1
42.5°	3.5
45°	1.4
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)