

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: P170564

Luminaire Tested: **LDA4A09940D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26146)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A09940D010TE LAR35FL 4LAL1  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° 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: 934.9 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

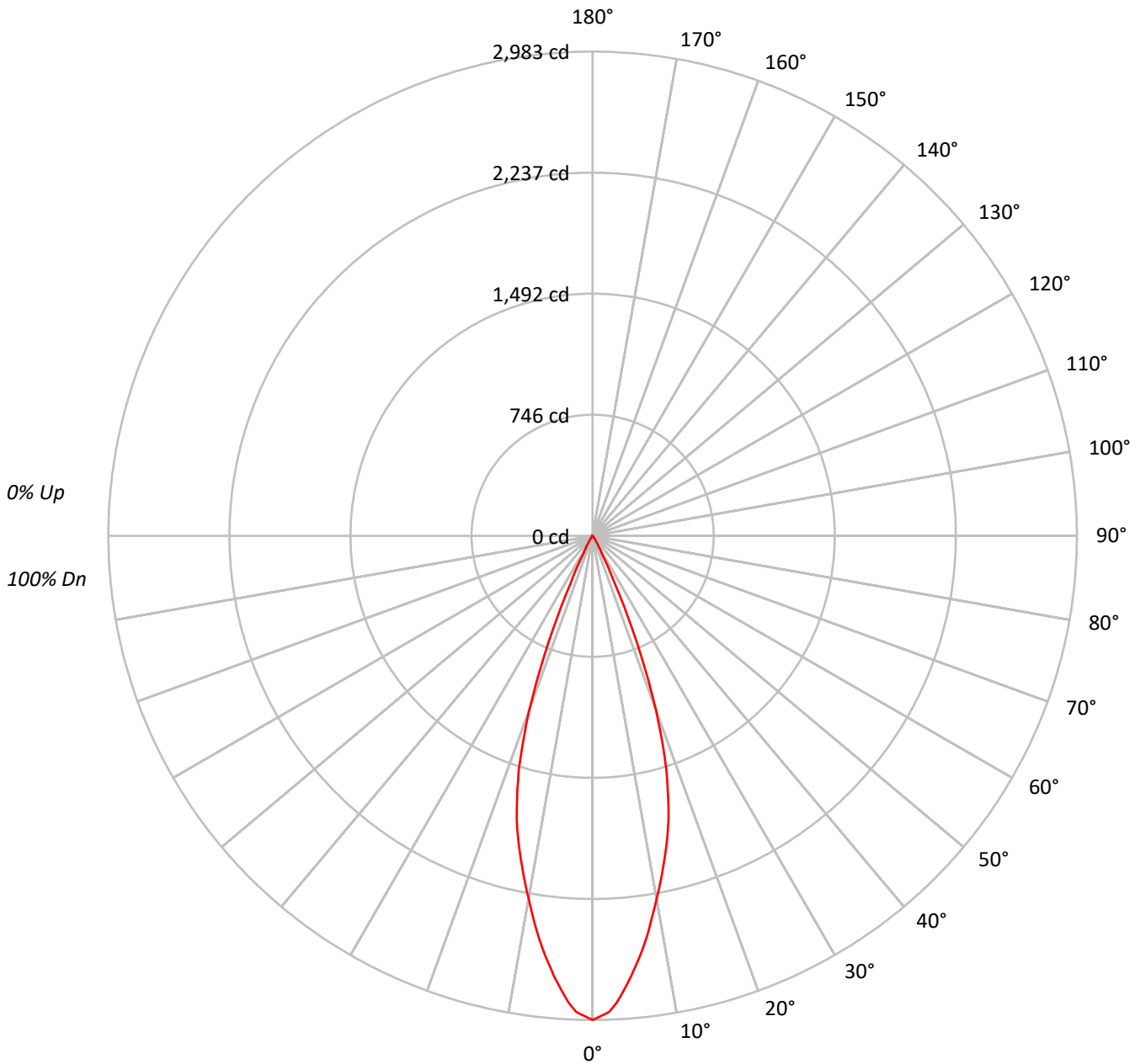
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	367915
5°	337265
10°	284439
15°	230646
20°	149363
25°	43061
30°	9414
35°	2665
40°	998
45°	419
50°	192
55°	108
60°	123
65°	146
70°	180
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.4	26.3
10°-20°	484.6	51.8
20°-30°	186.7	20.0
30°-40°	14.8	1.6
40°-50°	2.1	0.2
50°-60°	0.5	0.1
60°-70°	0.5	0.1
70°-80°	0.2	0.0
80°-90°	0.3	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°	916.7	98.1
0°-40°	931.5	99.6
0°-60°	934.1	99.9
0°-90°	935.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2983	
5°	2724	245
15°	1806	485
25°	316	187
35°	18	15
45°	2	2
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2982.8
1°	2958.9
2°	2934.5
3°	2877.0
4°	2801.4
5°	2723.9
6°	2638.6
7°	2555.8
8°	2464.4
9°	2365.3
10°	2271.0
11°	2181.0
12°	2087.2
13°	1997.7
14°	1906.2
15°	1806.2
17.5°	1512.2
20°	1137.9
22.5°	703.2
25°	316.4
27.5°	121.6
30°	66.1
32.5°	34.0
35°	17.7
37.5°	10.5
40°	6.2
42.5°	3.8
45°	2.4
47.5°	1.4
50°	1.0
52.5°	0.5
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
67.5°	0.5
70°	0.5
72.5°	0.0
75°	0.0
77.5°	0.5
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°		0.5



(END OF REPORT)