

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: P170576

Luminaire Tested: **LDA4A28840D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170576  
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: LDA4A28840D010TE LAR35FL 4LAL1  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3136.3 lumens  
Efficiency: N/A  
Efficacy: 70.5 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

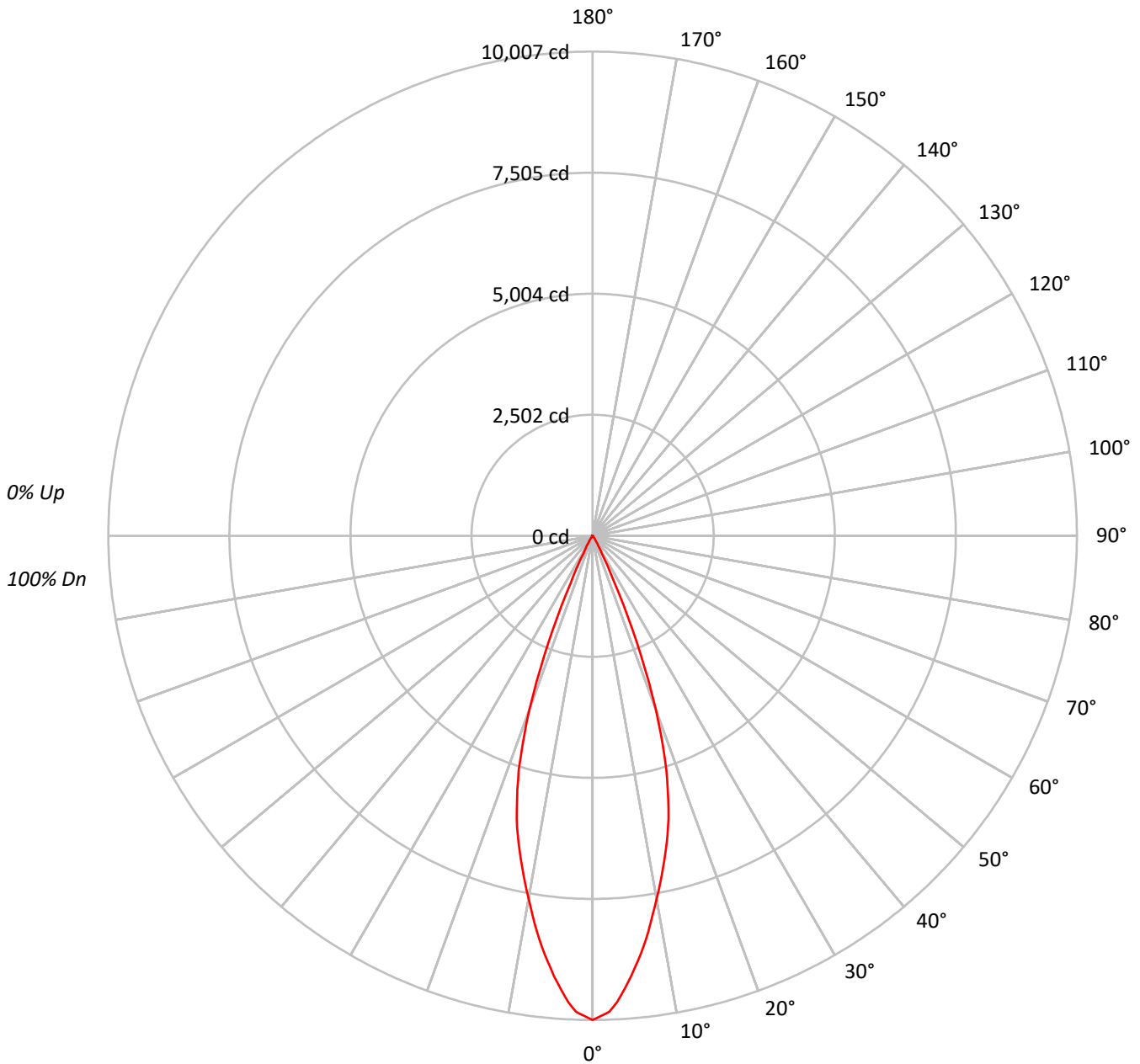
Input Watts (W): 44.49  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1234320
5°	1131450
10°	954255
15°	773766
20°	501091
25°	144480
30°	31562
35°	8944
40°	3365
45°	1395
50°	614
55°	344
60°	395
65°	467
70°	577
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	823.4	26.3
10°-20°	1625.7	51.8
20°-30°	626.3	20.0
30°-40°	49.6	1.6
40°-50°	7.1	0.2
50°-60°	1.6	0.1
60°-70°	1.6	0.1
70°-80°	0.6	0.0
80°-90°	0.9	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°	3075.4	98.1
0°-40°	3125.0	99.6
0°-60°	3133.7	99.9
0°-90°	3136.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10007	
5°	9138	823
15°	6059	1626
25°	1062	626
35°	59	50
45°	8	7
55°	2	2
65°	2	2
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10007.0
1°	9926.7
2°	9844.8
3°	9652.1
4°	9398.3
5°	9138.1
6°	8852.3
7°	8574.4
8°	8267.7
9°	7935.2
10°	7618.9
11°	7316.9
12°	7002.2
13°	6701.8
14°	6395.1
15°	6059.4
17.5°	5073.4
20°	3817.5
22.5°	2359.2
25°	1061.6
27.5°	407.9
30°	221.6
32.5°	114.0
35°	59.4
37.5°	35.3
40°	20.9
42.5°	12.8
45°	8.0
47.5°	4.8
50°	3.2
52.5°	1.6
55°	1.6
57.5°	1.6
60°	1.6
62.5°	1.6
65°	1.6
67.5°	1.6
70°	1.6
72.5°	0.0
75°	0.0
77.5°	1.6
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°		1.6



(END OF REPORT)