

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: P170480

Luminaire Tested: **LDA4A28840D010TE LAR35FL 4LA1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25630)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A28840D010TE LAR35FL 4LA1  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

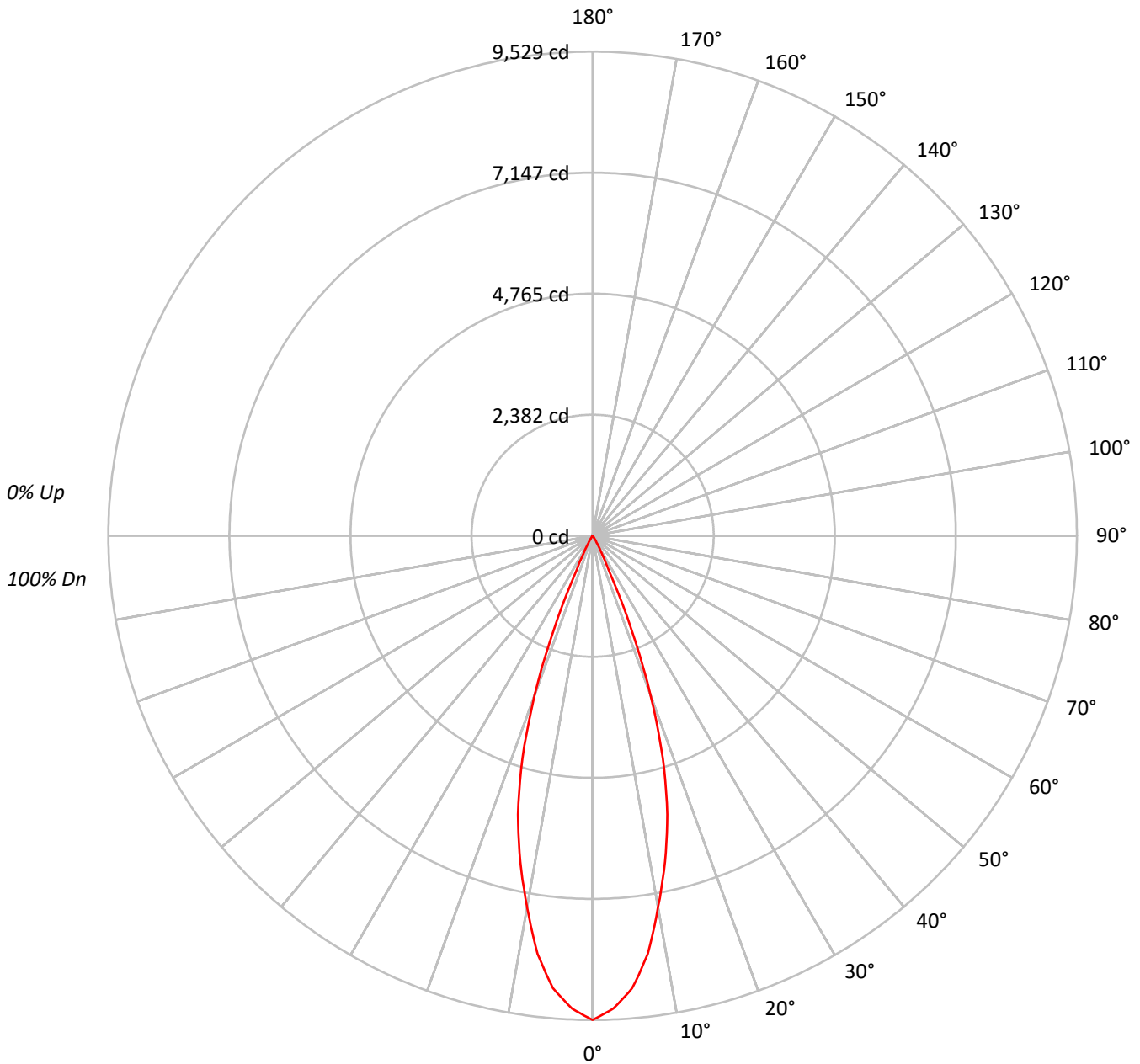
Lumens per Lamp: N/A  
Luminaire Lumens: 2882.6 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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									
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	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	97	97	96	95	93															
2	111	108	104	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	95	93	91	90															
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90	92	90	88	87															
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87	90	87	85	84															
5	101	95	91	88	100	94	90	87	93	89	87	91	88	86	90	87	85	84	90	87	85	84															
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	83	81	87	85	83	81															
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79	85	82	80	79															
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76	82	80	77	76															
9	90	83	79	76	89	82	79	76	82	78	76	81	78	75	80	77	75	74	80	77	75	74															
10	87	80	76	74	86	80	76	73	79	76	73	79	75	73	78	75	73	72	78	75	73	72															

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

	0°
0°	1175385
5°	1106699
10°	929631
15°	724896
20°	437600
25°	101406
30°	26534
35°	6294
40°	2061
45°	558
50°	307
55°	344
60°	395
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	805.0	27.9
10°-20°	1516.2	52.6
20°-30°	519.0	18.0
30°-40°	37.0	1.3
40°-50°	3.5	0.1
50°-60°	1.4	0.0
60°-70°	0.6	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°	2840.2	98.5
0°-40°	2877.2	99.8
0°-60°	2882.0	100.0
0°-90°	2882.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9529	
5°	8938	805
15°	5677	1516
25°	745	519
35°	42	37
45°	3	3
55°	2	1
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9529.2
2.5°	9315.6
5°	8938.2
7.5°	8299.1
10°	7422.3
12.5°	6571.2
15°	5676.7
17.5°	4591.2
20°	3333.8
22.5°	1991.3
25°	745.1
27.5°	362.9
30°	186.3
32.5°	83.5
35°	41.8
37.5°	22.5
40°	12.8
42.5°	6.4
45°	3.2
47.5°	1.6
50°	1.6
52.5°	1.6
55°	1.6
57.5°	1.6
60°	1.6
62.5°	1.6
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)