

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: P170452

Luminaire Tested: **LDA4A28940D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25629)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A28940D010TE LAR25NF 4LA1  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

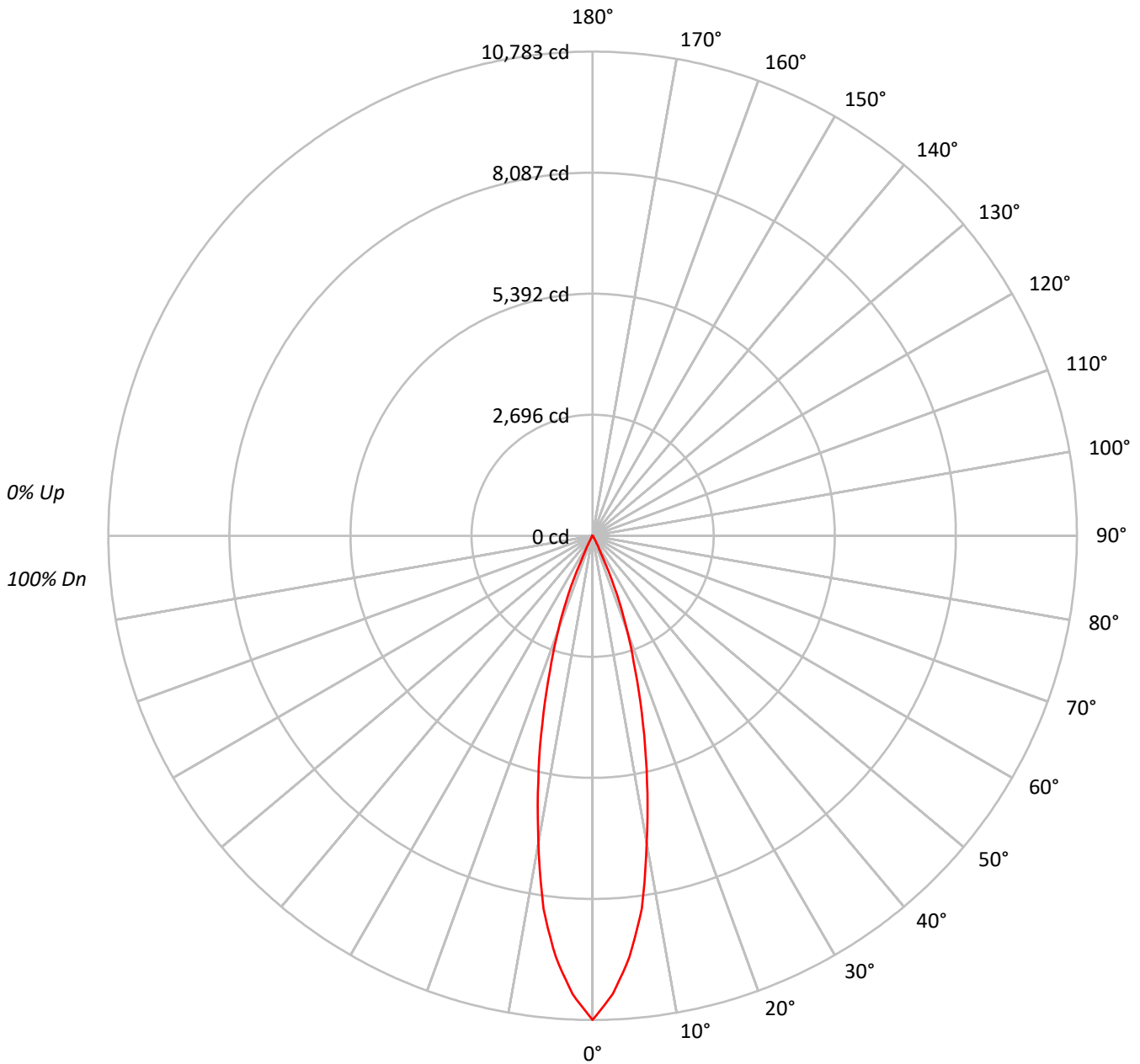
Lumens per Lamp: N/A  
Luminaire Lumens: 2387.0 lumens  
Efficiency: N/A  
Efficacy: 53.7 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.45  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 44.49  
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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	97	97
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	91	91	91
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88	88	88	88
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86	86	86	86
6	99	93	89	86	98	93	89	86	91	88	85	90	87	85	89	86	84	83	83	83	83
7	97	90	86	83	95	90	86	83	89	85	83	88	85	83	87	84	82	81	81	81	81
8	94	88	84	81	93	87	83	81	86	83	81	85	82	80	85	82	80	79	79	79	79
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77	77	77	77
10	89	83	79	76	89	83	79	76	82	79	76	81	78	76	81	78	76	75	75	75	75

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

	0°
0°	1330036
5°	1165884
10°	869600
15°	553170
20°	293357
25°	66198
30°	15895
35°	4562
40°	1546
45°	488
50°	269
55°	301
60°	345
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	823.7	34.5
10°-20°	1183.5	49.6
20°-30°	350.0	14.7
30°-40°	24.8	1.0
40°-50°	2.9	0.1
50°-60°	1.3	0.1
60°-70°	0.9	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°	2357.2	98.8
0°-40°	2382.0	99.8
0°-60°	2386.1	100.0
0°-90°	2387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10783	
5°	9416	824
15°	4332	1183
25°	486	350
35°	30	25
45°	3	3
55°	1	1
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10783.0
2.5°	10216.7
5°	9416.2
7.5°	8375.9
10°	6943.0
12.5°	5595.4
15°	4331.9
17.5°	3156.6
20°	2234.9
22.5°	1415.0
25°	486.4
27.5°	212.2
30°	111.6
32.5°	56.5
35°	30.3
37.5°	17.9
40°	9.6
42.5°	5.5
45°	2.8
47.5°	1.4
50°	1.4
52.5°	1.4
55°	1.4
57.5°	1.4
60°	1.4
62.5°	1.4
65°	0.0
67.5°	1.4
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)