

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: P170440

Luminaire Tested: **LDA4A13840D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170440  
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: LDA4A13840D010TE LAR25NF 4LA1  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

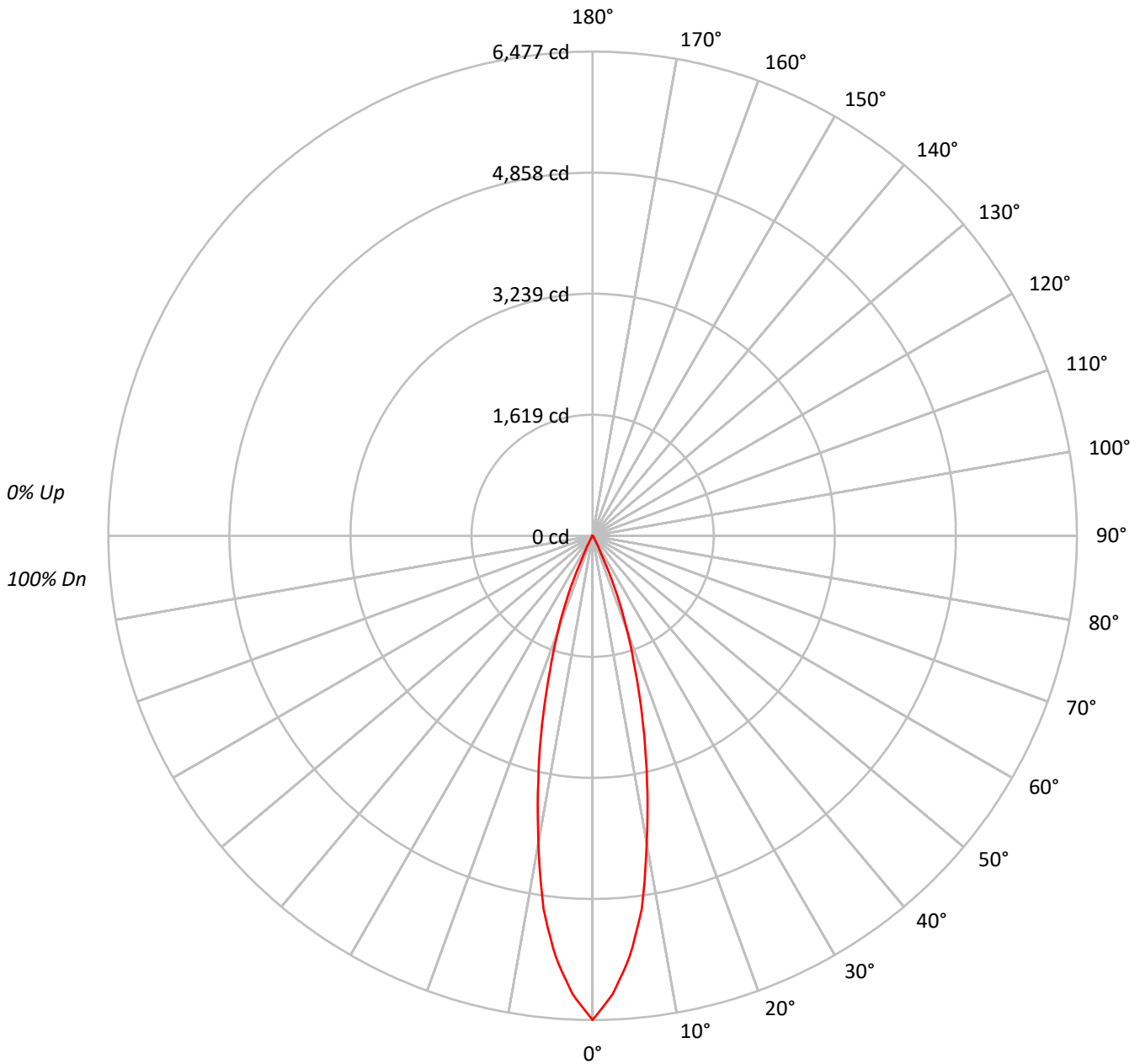
Lumens per Lamp: N/A  
Luminaire Lumens: 1433.8 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.45  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 22.27  
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	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°	798947
5°	700333
10°	522361
15°	332293
20°	176219
25°	39767
30°	9543
35°	2741
40°	934
45°	297
50°	154
55°	172
60°	197
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.8	34.5
10°-20°	710.9	49.6
20°-30°	210.2	14.7
30°-40°	14.9	1.0
40°-50°	1.7	0.1
50°-60°	0.7	0.1
60°-70°	0.5	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°	1415.9	98.8
0°-40°	1430.9	99.8
0°-60°	1433.3	100.0
0°-90°	1433.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6477	
5°	5656	495
15°	2602	711
25°	292	210
35°	18	15
45°	2	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6477.3
2.5°	6137.1
5°	5656.2
7.5°	5031.4
10°	4170.6
12.5°	3361.1
15°	2602.2
17.5°	1896.2
20°	1342.5
22.5°	850.0
25°	292.2
27.5°	127.5
30°	67.0
32.5°	33.9
35°	18.2
37.5°	10.8
40°	5.8
42.5°	3.3
45°	1.7
47.5°	0.8
50°	0.8
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.0
67.5°	0.8
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)