

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: P170524

Luminaire Tested: **LDA4A18940D010TE LAR25NF 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26145)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A18940D010TE LAR25NF 4LAL1  
Description: PORTFOLIO 4" Lensed Adjustable, 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: 1660.8 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.45  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

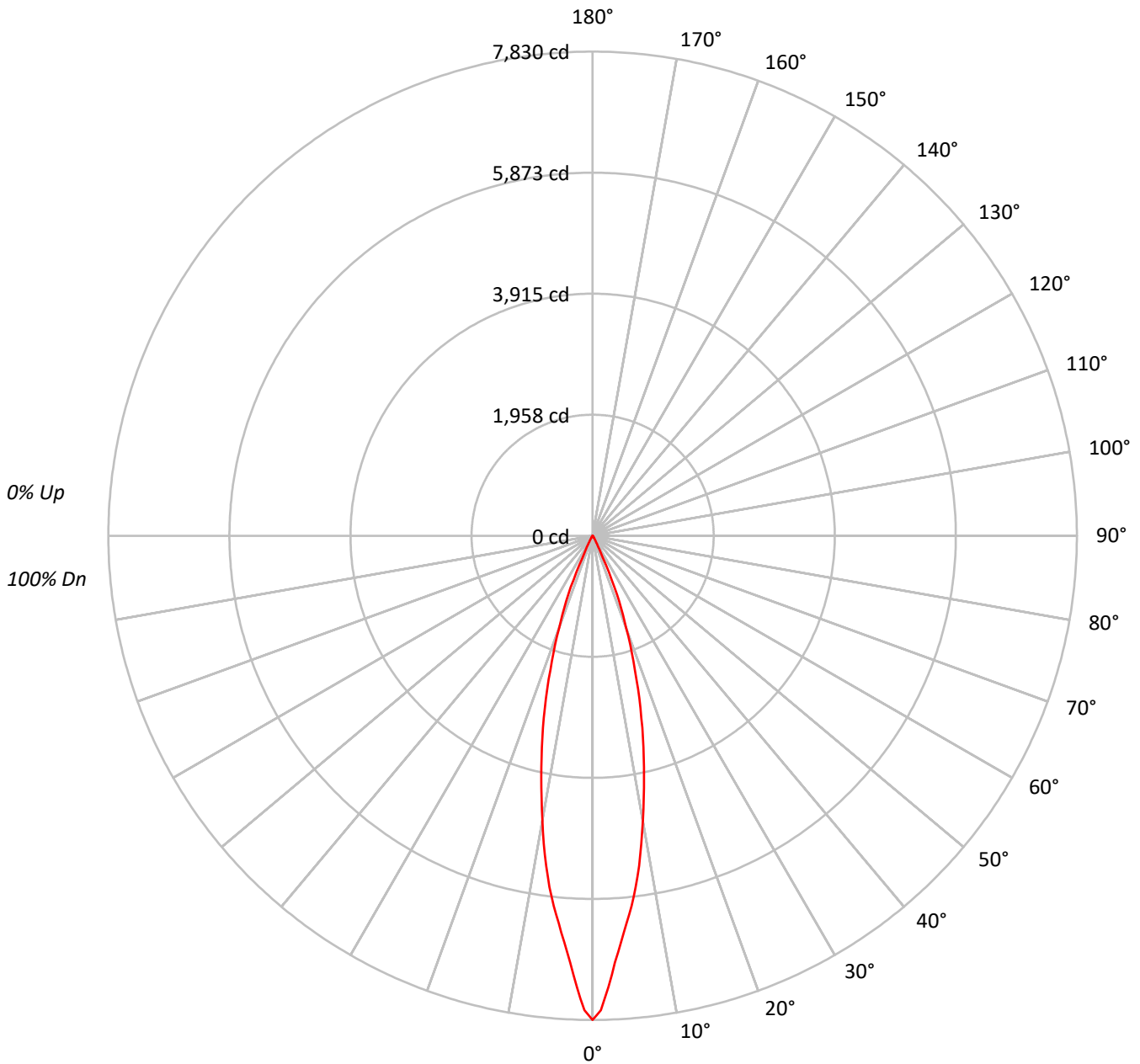
Input Watts (W): 29.12  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P170524

CATALOG NUMBER: LDA4A18940D010TE LAR25NF 4LAL1

### Luminous Intensity Polar Plot





TEST NUMBER: P170524

CATALOG NUMBER: LDA4A18940D010TE LAR25NF 4LAL1

**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	108	107	106	104	103	102	101	100	99	98	97	97	98	98	97															
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	94															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	94	92	91	91	98	94	91															
4	105	100	96	93	103	98	95	92	97	94	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78	78	84	81	79															
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76	76	82	79	77															
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74	74	80	77	75															

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

	0°
0°	965821
5°	779030
10°	585549
15°	389194
20°	208745
25°	52819
30°	12534
35°	4111
40°	1707
45°	768
50°	345
55°	194
60°	222
65°	263
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170524

CATALOG NUMBER: LDA4A18940D010TE LAR25NF 4LAL1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.0	33.3
10°-20°	824.1	49.6
20°-30°	257.5	15.5
30°-40°	21.1	1.3
40°-50°	3.7	0.2
50°-60°	0.9	0.1
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°	1634.6	98.4
0°-40°	1655.7	99.7
0°-60°	1660.3	100.0
0°-90°	1660.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7830	
5°	6292	553
15°	3048	824
25°	388	257
35°	27	21
45°	4	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170524

CATALOG NUMBER: LDA4A18940D010TE LAR25NF 4LAL1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7830.2
1°	7675.3
2°	7301.3
3°	6908.8
4°	6584.9
5°	6291.8
6°	6018.1
7°	5723.3
8°	5388.8
9°	5042.1
10°	4675.1
11°	4323.9
12°	3993.9
13°	3675.3
14°	3360.2
15°	3047.8
17.5°	2272.4
20°	1590.3
22.5°	1030.6
25°	388.1
27.5°	154.9
30°	88.0
32.5°	46.6
35°	27.3
37.5°	16.7
40°	10.6
42.5°	6.2
45°	4.4
47.5°	2.6
50°	1.8
52.5°	0.9
55°	0.9
57.5°	0.9
60°	0.9
62.5°	0.9
65°	0.9
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



TEST NUMBER: P170524

CATALOG NUMBER: LDA4A18940D010TE LAR25NF 4LAL1

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)