

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: P170617

Luminaire Tested: **LDA4A18927D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26142)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A18927D010TE LAR25NF 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1460.7 lumens  
Efficiency: N/A  
Efficacy: 50.2 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

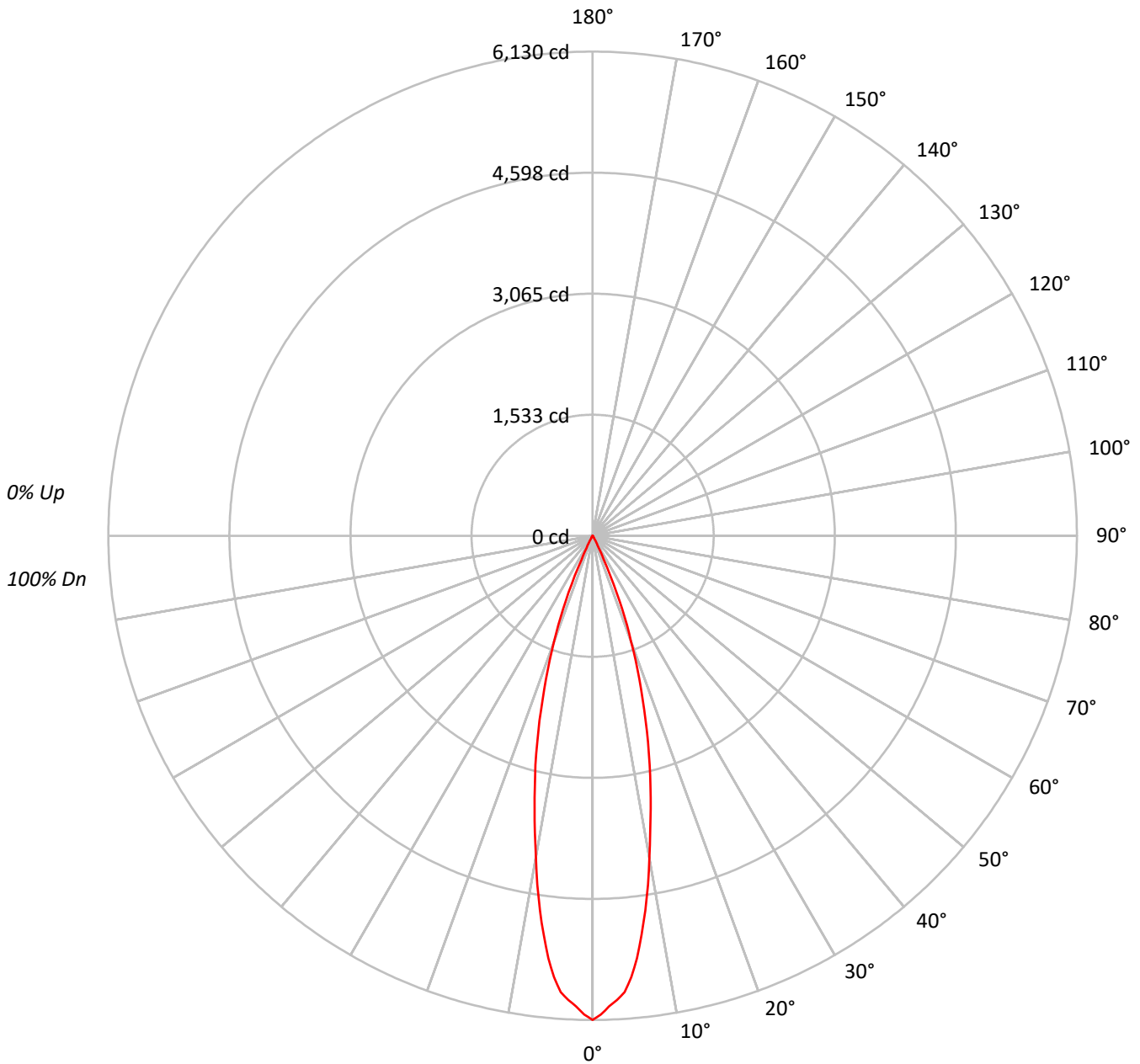
Input Watts (W): 29.12  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	104	103	102	101	100	99	99	97	98	96	95	94	94	92	91	91	89	88																		
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	95	94	92	91	91	89	88	87	86	83																		
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	92	91	89	88	87	86	84	83	82	81																		
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	91	89	87	86	84	83	82	81	80	79																		
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	89	86	84	83	82	81	80	79	78	76																		
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	87	84	82	81	80	79	78	77	76	74																		
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	85	82	80	79	78	77	76	75	74	73																		
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	83	80	78	77	76	75	74	73	72	71																		
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	81	78	76	75	74	73	72	71	70	69																		
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	79	76	74	73	72	71	70	69	68	67																		

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

	0°
0°	756133
5°	694377
10°	518691
15°	345496
20°	187153
25°	44653
30°	10454
35°	2981
40°	1014
45°	366
50°	134
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.0	33.3
10°-20°	732.9	50.2
20°-30°	223.8	15.3
30°-40°	16.2	1.1
40°-50°	1.8	0.1
50°-60°	0.1	0.0
60°-70°	0.0	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°	1442.6	98.8
0°-40°	1458.8	99.9
0°-60°	1460.7	100.0
0°-90°	1460.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6130	
5°	5608	486
15°	2706	733
25°	328	224
35°	20	16
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6130.2
1°	6061.0
2°	5961.5
3°	5886.8
4°	5791.5
5°	5608.1
6°	5377.4
7°	5088.8
8°	4791.1
9°	4473.6
10°	4141.3
11°	3824.6
12°	3534.6
13°	3256.6
14°	2988.5
15°	2705.6
17.5°	2032.6
20°	1425.8
22.5°	889.6
25°	328.1
27.5°	132.6
30°	73.4
32.5°	36.7
35°	19.8
37.5°	11.3
40°	6.3
42.5°	3.5
45°	2.1
47.5°	0.7
50°	0.7
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
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



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CANDELA DISTRIBUTION (continued):

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)