

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: P170630

Luminaire Tested: **LDA4A13830D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170630  
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: LDA4A13830D010TE LAR25NF 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1589.2 lumens  
Efficiency: N/A  
Efficacy: 71.4 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

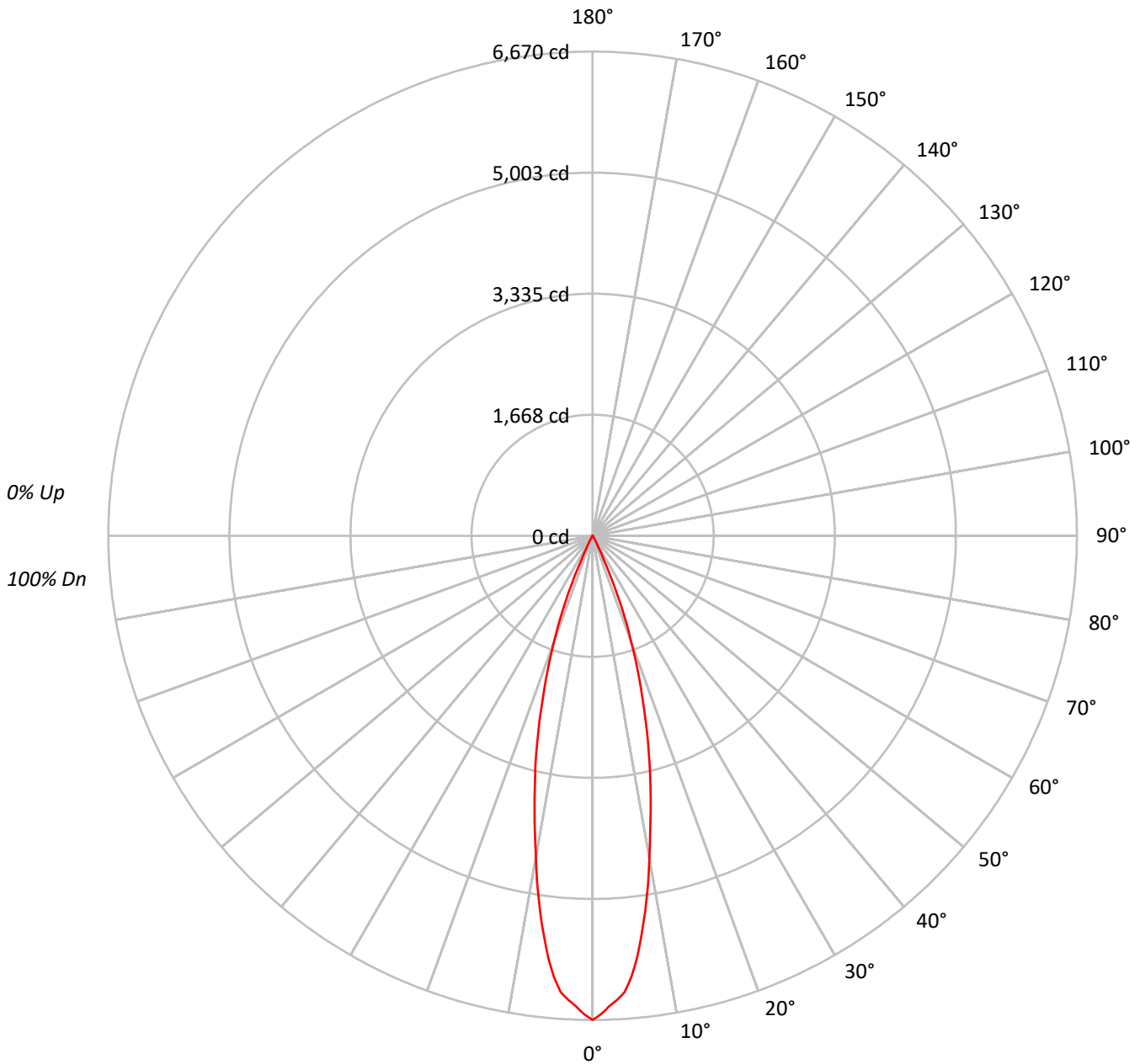
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									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	86	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	87	86	84	83	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	82	81	79	79	76																		
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	77	76																		
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	89	86	84	83	82	81	80	79	77	76																		
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	87	84	82	81	80	79	78	77	76	74																		
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	86	82	80	79	78	77	76	75	74	72																		
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	85	81	79	78	77	76	75	74	73	71																		
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	84	80	78	77	76	75	74	73	72	70																		

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

	0°
0°	822678
5°	755481
10°	564344
15°	375901
20°	203626
25°	48573
30°	11366
35°	3237
40°	1111
45°	401
50°	154
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°	528.8	33.3
10°-20°	797.3	50.2
20°-30°	243.4	15.3
30°-40°	17.6	1.1
40°-50°	2.0	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°	1569.6	98.8
0°-40°	1587.1	99.9
0°-60°	1589.2	100.0
0°-90°	1589.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6670	
5°	6102	529
15°	2944	797
25°	357	243
35°	22	18
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°	6669.7
1°	6594.4
2°	6486.2
3°	6404.8
4°	6301.2
5°	6101.6
6°	5850.6
7°	5536.7
8°	5212.8
9°	4867.3
10°	4505.8
11°	4161.1
12°	3845.7
13°	3543.2
14°	3251.5
15°	2943.7
17.5°	2211.4
20°	1551.3
22.5°	967.9
25°	356.9
27.5°	144.3
30°	79.8
32.5°	39.9
35°	21.5
37.5°	12.3
40°	6.9
42.5°	3.8
45°	2.3
47.5°	0.8
50°	0.8
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)