

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: P170540

Luminaire Tested: **LDA4A13940D010TE LAR25NF 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170540  
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: LDA4A13940D010TE 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: 1340.5 lumens  
Efficiency: N/A  
Efficacy: 60.2 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

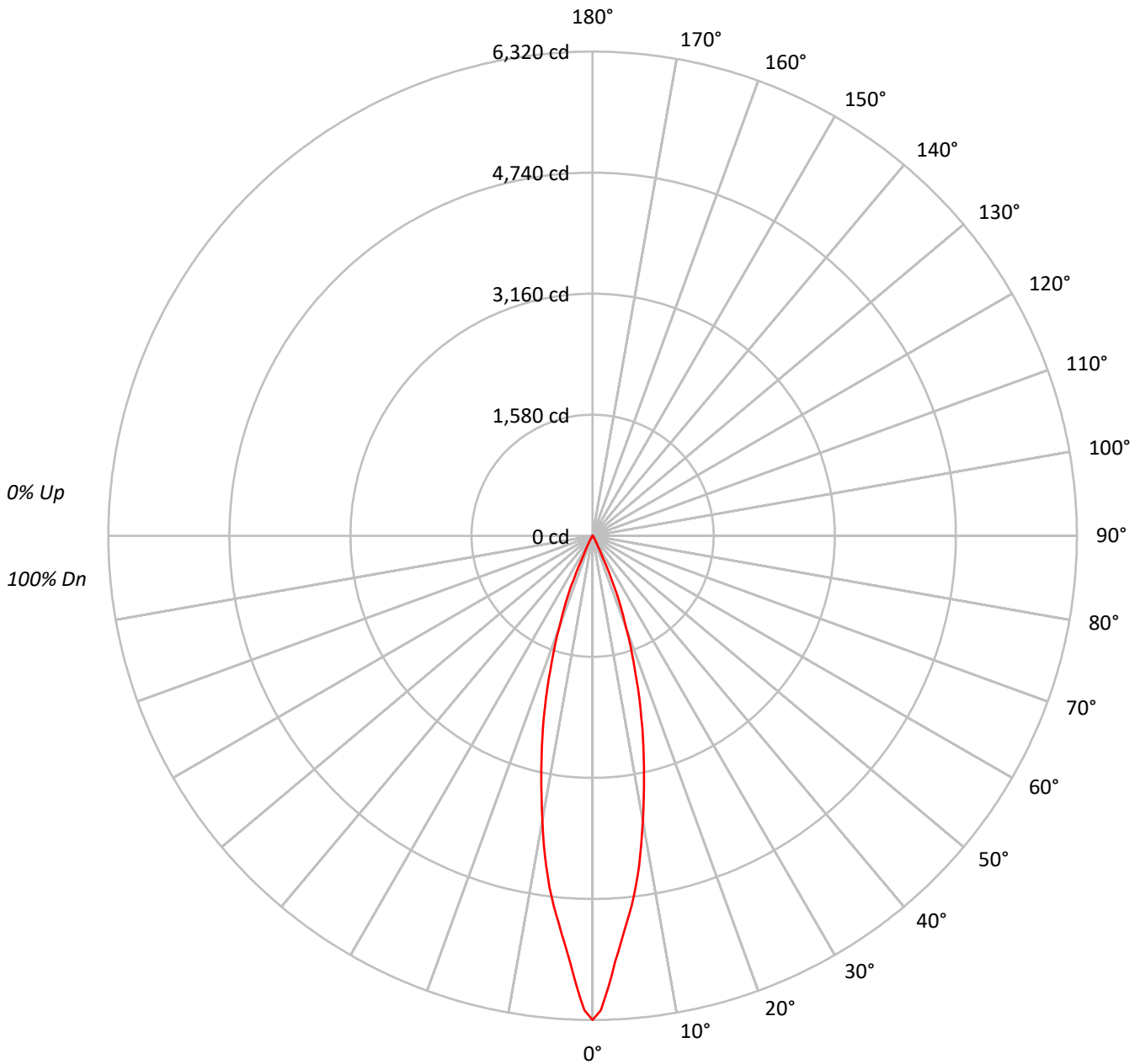
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	779569
5°	628804
10°	472625
15°	314134
20°	168501
25°	42639
30°	10112
35°	3313
40°	1369
45°	628
50°	269
55°	151
60°	173
65°	204
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.4	33.3
10°-20°	665.2	49.6
20°-30°	207.8	15.5
30°-40°	17.0	1.3
40°-50°	3.0	0.2
50°-60°	0.7	0.1
60°-70°	0.4	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°	1319.4	98.4
0°-40°	1336.4	99.7
0°-60°	1340.1	100.0
0°-90°	1340.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6320	
5°	5078	446
15°	2460	665
25°	313	208
35°	22	17
45°	4	3
55°	1	1
65°	1	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6320.2
1°	6195.2
2°	5893.3
3°	5576.5
4°	5315.1
5°	5078.5
6°	4857.6
7°	4619.6
8°	4349.7
9°	4069.8
10°	3773.5
11°	3490.1
12°	3223.7
13°	2966.5
14°	2712.2
15°	2460.0
17.5°	1834.2
20°	1283.7
22.5°	831.9
25°	313.3
27.5°	125.0
30°	71.0
32.5°	37.7
35°	22.0
37.5°	13.5
40°	8.5
42.5°	5.0
45°	3.6
47.5°	2.1
50°	1.4
52.5°	0.7
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7
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)