

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: P170508

Luminaire Tested: **LDA4A13940D010TE LAR15SP 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26144)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A13940D010TE LAR15SP 4LAL1  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot  
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: 1242.5 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.34  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

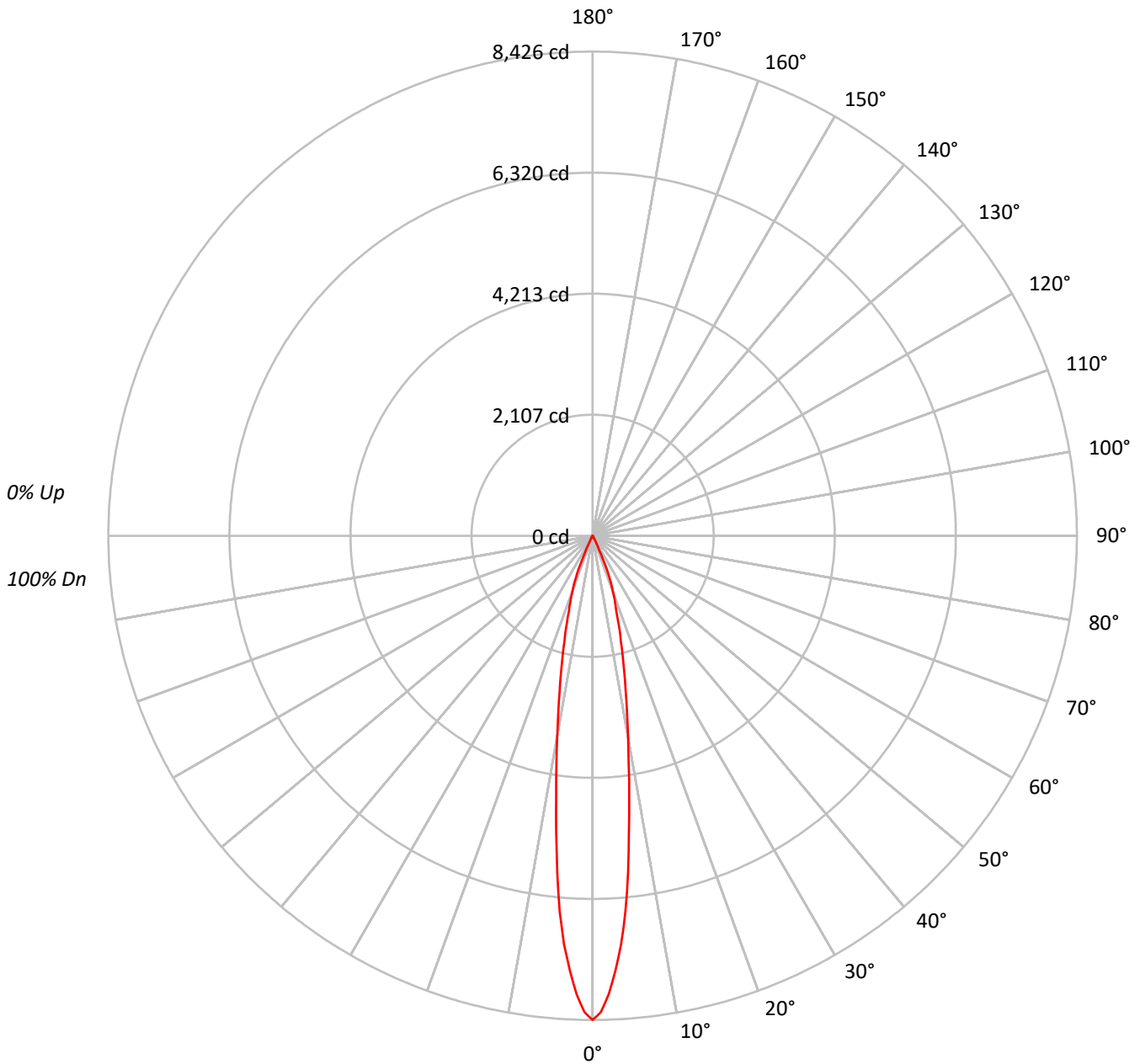
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95				95															
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92				92															
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90				90															
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87				87															
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85				85															
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83				83															
8	95	89	86	83	95	89	85	83	88	85	83	87	84	82	86	84	82	81				81															
9	93	87	83	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79				79															
10	91	85	81	79	90	85	81	79	84	81	79	83	81	79	83	80	78	78				78															

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

	0°
0°	1039249
5°	812263
10°	443580
15°	242279
20°	136368
25°	34623
30°	6580
35°	2349
40°	1143
45°	628
50°	134
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°	518.5	41.7
10°-20°	539.0	43.4
20°-30°	169.1	13.6
30°-40°	11.9	1.0
40°-50°	2.8	0.2
50°-60°	0.6	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°	1226.6	98.7
0°-40°	1238.5	99.7
0°-60°	1241.9	100.0
0°-90°	1242.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8426	
5°	6560	519
15°	1897	539
25°	254	169
35°	16	12
45°	4	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8425.5
1°	8291.2
2°	7985.0
3°	7577.1
4°	7125.8
5°	6560.2
6°	5890.8
7°	5190.9
8°	4561.3
9°	4013.4
10°	3541.6
11°	3128.8
12°	2766.3
13°	2445.9
14°	2157.4
15°	1897.3
17.5°	1370.0
20°	1038.9
22.5°	707.0
25°	254.4
27.5°	85.3
30°	46.2
32.5°	25.6
35°	15.6
37.5°	10.7
40°	7.1
42.5°	5.0
45°	3.6
47.5°	2.1
50°	0.7
52.5°	0.7
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7
67.5°	0.7
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)