

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: P170408

Luminaire Tested: **LDA4A13840D010TE LAR15SP 4LA1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25628)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A13840D010TE LAR15SP 4LA1  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 15° Spot  
Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

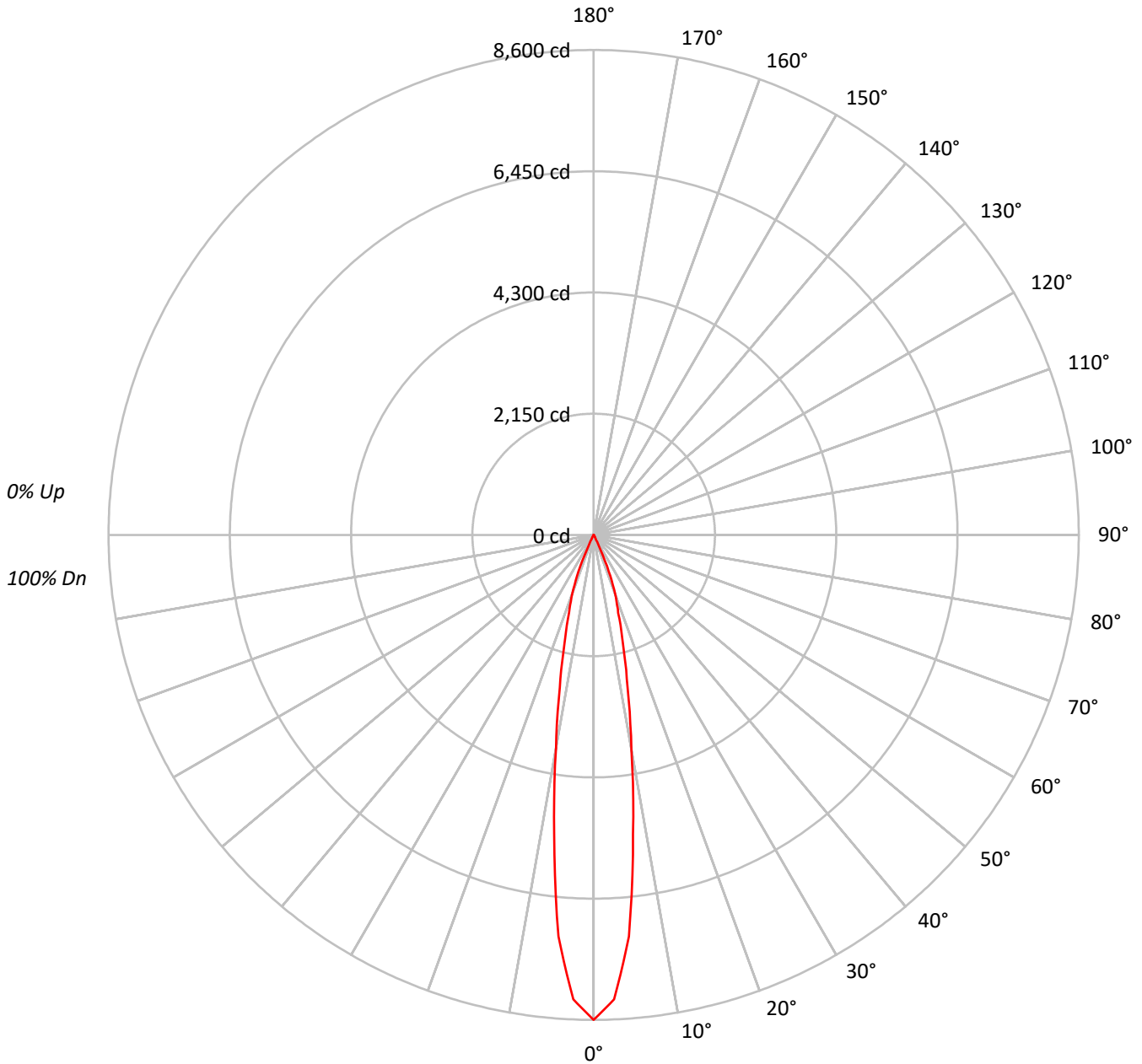
Lumens per Lamp: N/A  
Luminaire Lumens: 1321.2 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.35  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	1060822
5°	885005
10°	481154
15°	255585
20°	145595
25°	28499
30°	5896
35°	1747
40°	660
45°	297
50°	154
55°	172
60°	197
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.7	42.9
10°-20°	577.3	43.7
20°-30°	165.6	12.5
30°-40°	9.4	0.7
40°-50°	1.4	0.1
50°-60°	0.7	0.1
60°-70°	0.1	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°	1309.6	99.1
0°-40°	1319.0	99.8
0°-60°	1321.1	100.0
0°-90°	1321.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1321.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8600	
5°	7148	567
15°	2002	577
25°	209	166
35°	12	9
45°	2	1
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8600.4
2.5°	8244.5
5°	7147.7
7.5°	5354.8
10°	3841.6
12.5°	2770.5
15°	2001.5
17.5°	1448.6
20°	1109.2
22.5°	699.5
25°	209.4
27.5°	80.3
30°	41.4
32.5°	21.5
35°	11.6
37.5°	6.6
40°	4.1
42.5°	2.5
45°	1.7
47.5°	0.8
50°	0.8
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)