

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: P170530

Luminaire Tested: **LDA4A09930D010TE LAR25NF 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170530
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: LDA4A09930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 834.8 lumens
Efficiency: N/A
Efficacy: 60.3 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

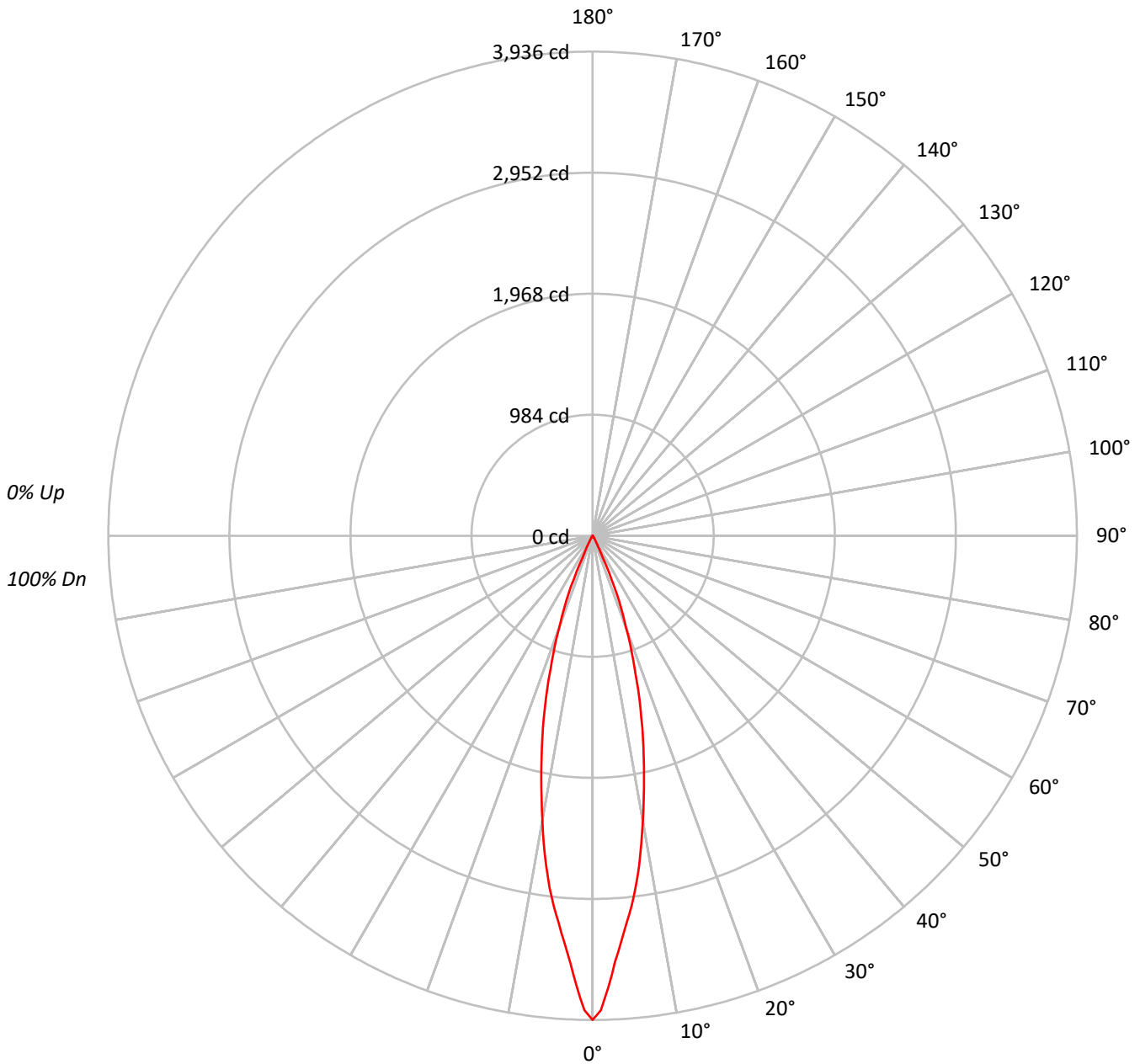
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170530

CATALOG NUMBER: LDA4A09930D010TE LAR25NF 4LAL1

Luminous Intensity Polar Plot





TEST NUMBER: P170530

CATALOG NUMBER: LDA4A09930D010TE LAR25NF 4LAL1

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	109	113	111	109	108	107	106	104	103	102	101	100	99	98	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	94	92	91	91	89	88	86	85	85	83																		
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	94	92	91	91	89	88	86	85	85	83	81	81	78																		
4	105	100	96	93	103	98	95	92	97	94	91	95	92	90	93	91	89	88	86	85	85	83	81	80	79	78	78	76																		
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	83	81	80	79	78	77	76	76	74																		
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	81	80	79	78	77	76	75	74	72																		
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	73	71	69																		
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78	77	76	75	74	73	72	71	70	69	67																		
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76	75	74	73	72	71	70	69	68	67	65																		
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74	73	72	71	70	69	68	67	66	65	63																		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	485488
5°	391595
10°	294334
15°	195631
20°	104931
25°	26552
30°	6295
35°	2063
40°	853
45°	384
50°	173
55°	86
60°	99
65°	117
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170530

CATALOG NUMBER: LDA4A09930D010TE LAR25NF 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	33.3
10°-20°	414.3	49.6
20°-30°	129.4	15.5
30°-40°	10.6	1.3
40°-50°	1.8	0.2
50°-60°	0.4	0.0
60°-70°	0.2	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°	821.7	98.4
0°-40°	832.3	99.7
0°-60°	834.5	100.0
0°-90°	834.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3936	
5°	3163	278
15°	1532	414
25°	195	129
35°	14	11
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170530

CATALOG NUMBER: LDA4A09930D010TE LAR25NF 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	3936.0
1°	3858.1
2°	3670.1
3°	3472.8
4°	3310.0
5°	3162.7
6°	3025.1
7°	2876.9
8°	2708.8
9°	2534.5
10°	2350.0
11°	2173.5
12°	2007.6
13°	1847.4
14°	1689.1
15°	1532.0
17.5°	1142.3
20°	799.4
22.5°	518.0
25°	195.1
27.5°	77.9
30°	44.2
32.5°	23.4
35°	13.7
37.5°	8.4
40°	5.3
42.5°	3.1
45°	2.2
47.5°	1.3
50°	0.9
52.5°	0.4
55°	0.4
57.5°	0.4
60°	0.4
62.5°	0.4
65°	0.4
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



TEST NUMBER: P170530

CATALOG NUMBER: LDA4A09930D010TE LAR25NF 4LAL1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)