

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: P170629

Luminaire Tested: **LDA4A13827D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170629
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: LDA4A13827D010TE 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1468.1 lumens
Efficiency: N/A
Efficacy: 65.9 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

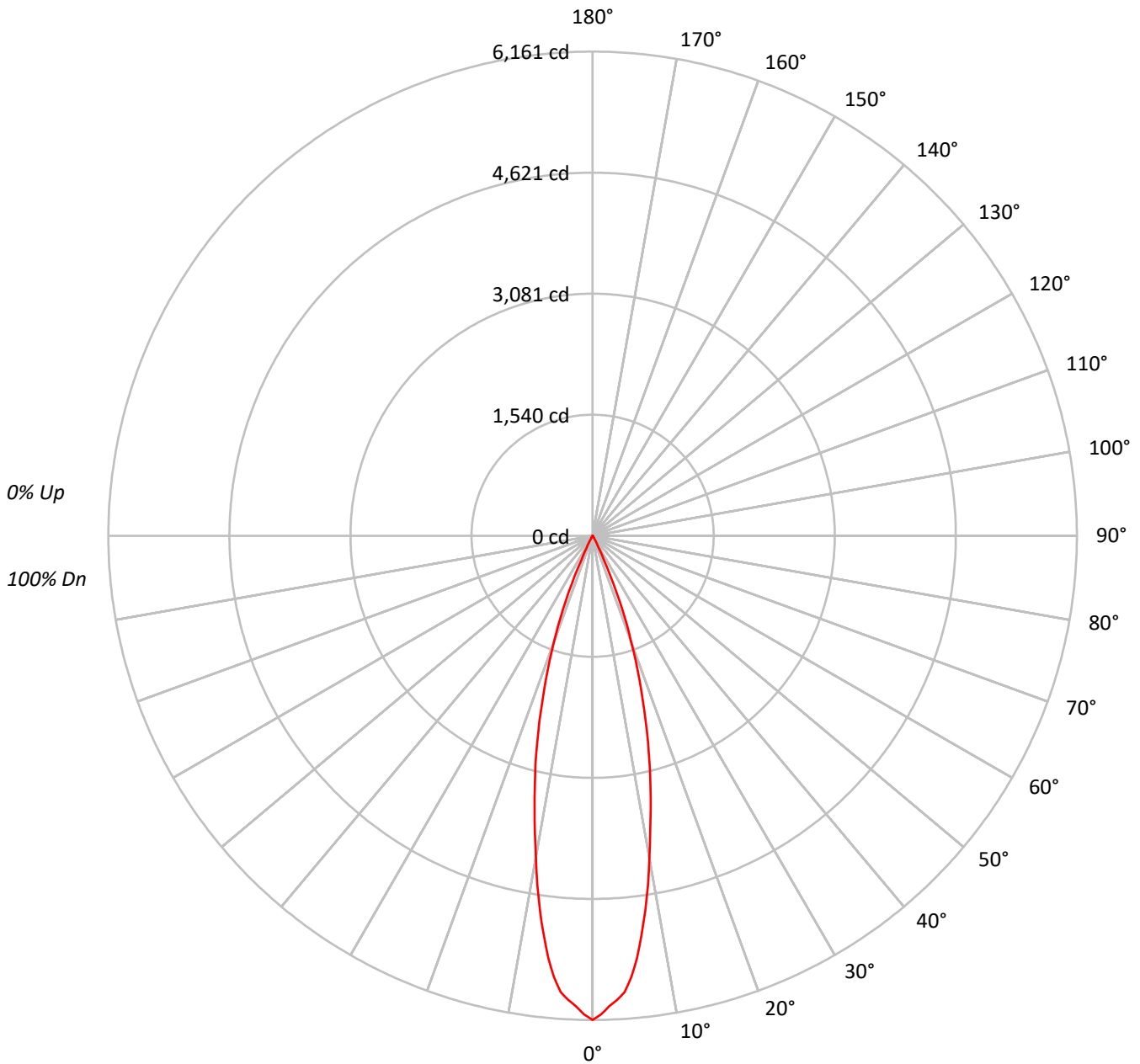
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170629

CATALOG NUMBER: LDA4A13827D010TE LAR25NF 4LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P170629

CATALOG NUMBER: LDA4A13827D010TE LAR25NF 4LFC1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	100	100	100	100	100	100	100	100	100	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	94	94	94	94	94	94	94															
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	98	96	95	94	94	94	94	94	94	94	94	94															
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	98	96	95	94	94	94	94	94	94	94	94	94															
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	95	92	90	89	87	87	87	87	87	87	87	87															
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	92	89	87	86	85	85	85	85	85	85	85	85															
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	87	84	82	81	81	81	81	81	81	81	81	81															
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	84	81	79	78	78	78	78	78	78	78	78	78															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	82	79	77	76	76	76	76	76	76	76	76	76															
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	80	77	75	74	74	74	74	74	74	74	74	74															
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	80	77	75	74	74	74	74	74	74	74	74	74															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	759969
5°	697906
10°	521334
15°	347259
20°	188111
25°	44871
30°	10497
35°	2996
40°	1031
45°	366
50°	134
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170629

CATALOG NUMBER: LDA4A13827D010TE LAR25NF 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.5	33.3
10°-20°	736.6	50.2
20°-30°	224.9	15.3
30°-40°	16.2	1.1
40°-50°	1.8	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°	1450.0	98.8
0°-40°	1466.2	99.9
0°-60°	1468.1	100.0
0°-90°	1468.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6161	
5°	5637	488
15°	2719	737
25°	330	225
35°	20	16
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170629

CATALOG NUMBER: LDA4A13827D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	6161.3
1°	6091.8
2°	5991.8
3°	5916.7
4°	5820.9
5°	5636.6
6°	5404.7
7°	5114.7
8°	4815.4
9°	4496.4
10°	4162.4
11°	3844.0
12°	3552.6
13°	3273.2
14°	3003.7
15°	2719.4
17.5°	2042.9
20°	1433.1
22.5°	894.2
25°	329.7
27.5°	133.3
30°	73.7
32.5°	36.9
35°	19.9
37.5°	11.3
40°	6.4
42.5°	3.5
45°	2.1
47.5°	0.7
50°	0.7
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



TEST NUMBER: P170629

CATALOG NUMBER: LDA4A13827D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)