

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: P170637

Luminaire Tested: **LDA4A28827D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170637
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: LDA4A28827D010TE 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: 2848.0 lumens
Efficiency: N/A
Efficacy: 64.0 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

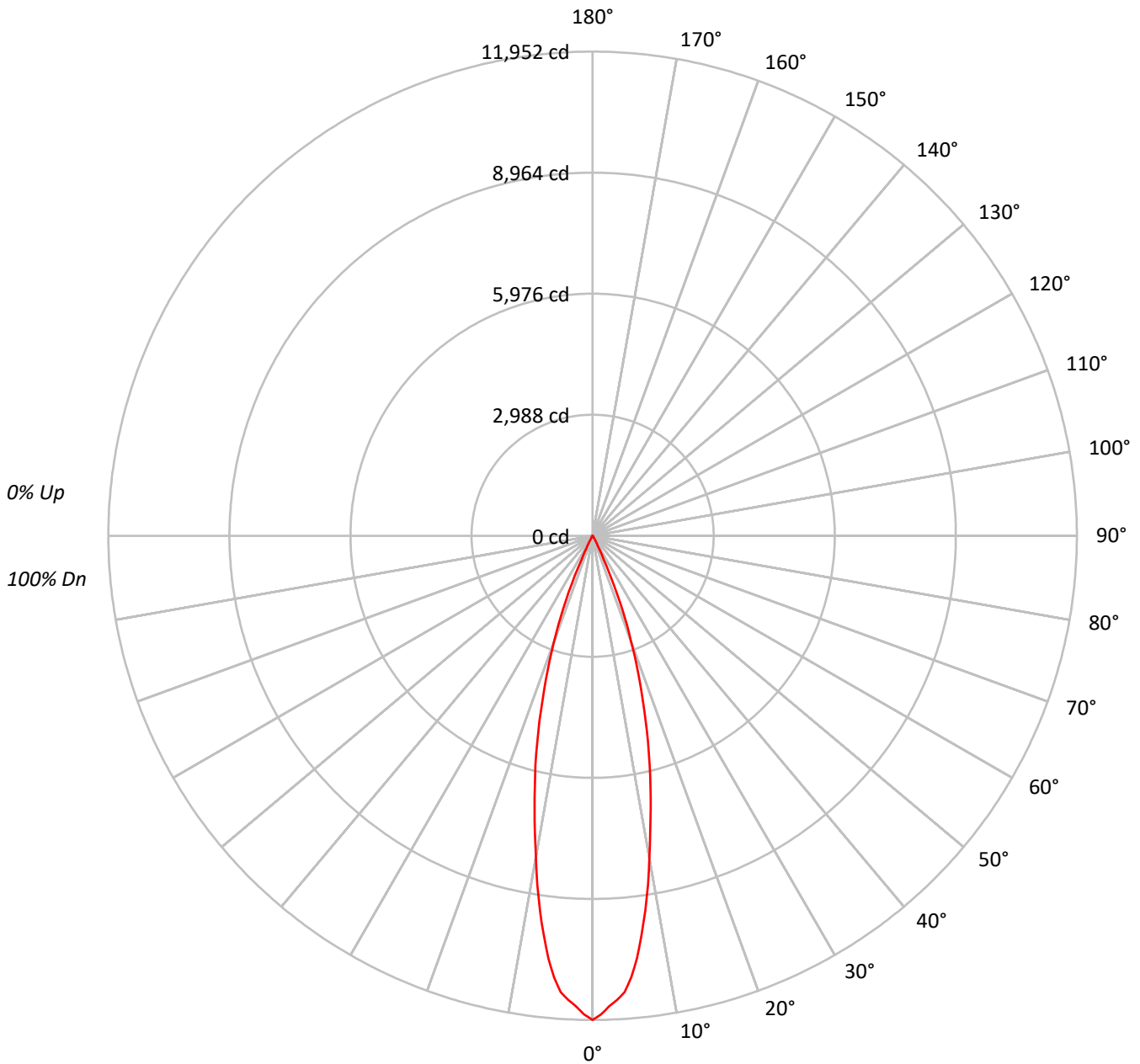
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170637

CATALOG NUMBER: LDA4A28827D010TE LAR25NF 4LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P170637

CATALOG NUMBER: LDA4A28827D010TE LAR25NF 4LFC1

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97	97	97	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	91	91	91
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	86	86	86
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	83	83	83
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	81	81	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	76	76	76
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	74	74	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1474276
5°	1353875
10°	1011331
15°	673639
20°	364907
25°	87048
30°	20381
35°	5797
40°	1997
45°	715
50°	269
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170637

CATALOG NUMBER: LDA4A28827D010TE LAR25NF 4LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.6	33.3
10°-20°	1428.9	50.2
20°-30°	436.3	15.3
30°-40°	31.5	1.1
40°-50°	3.6	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°	2812.8	98.8
0°-40°	2844.3	99.9
0°-60°	2848.0	100.0
0°-90°	2848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2848.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11952	
5°	10934	948
15°	5275	1429
25°	640	436
35°	38	31
45°	4	4
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170637

CATALOG NUMBER: LDA4A28827D010TE LAR25NF 4LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	11952.4
1°	11817.6
2°	11623.6
3°	11477.8
4°	11292.1
5°	10934.5
6°	10484.7
7°	9922.0
8°	9341.5
9°	8722.5
10°	8074.6
11°	7457.0
12°	6891.6
13°	6349.7
14°	5826.9
15°	5275.3
17.5°	3963.0
20°	2780.0
22.5°	1734.6
25°	639.6
27.5°	258.6
30°	143.1
32.5°	71.5
35°	38.5
37.5°	22.0
40°	12.4
42.5°	6.9
45°	4.1
47.5°	1.4
50°	1.4
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: P170637

CATALOG NUMBER: LDA4A28827D010TE 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)