

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: P170438

Luminaire Tested: **LDA4A13830D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25629)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A13830D010TE LAR25NF 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1329.8 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.45
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

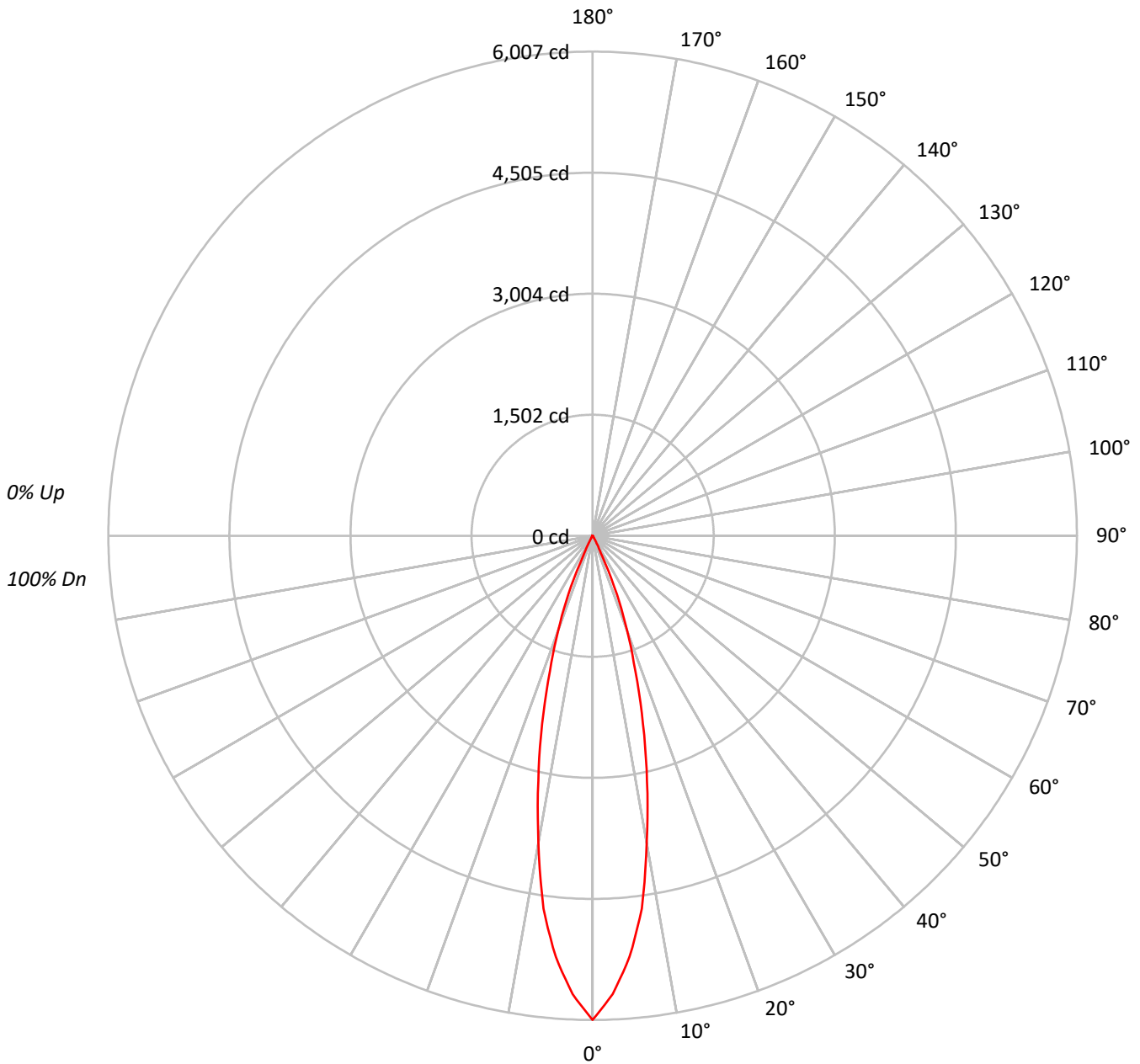
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170438

CATALOG NUMBER: LDA4A13830D010TE LAR25NF 4LA1

Luminous Intensity Polar Plot





TEST NUMBER: P170438

CATALOG NUMBER: LDA4A13830D010TE LAR25NF 4LA1

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	105	103	102	101	100	99	99	97	97	97	97
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	91	91	91
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88	88	88	88
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86	86	86	86
6	99	93	89	86	98	93	89	86	91	88	85	90	87	85	89	86	84	83	83	83	83
7	97	90	86	83	95	90	86	83	89	85	83	88	85	83	87	84	82	81	81	81	81
8	94	88	84	81	93	87	83	81	86	83	81	85	82	80	85	82	80	79	79	79	79
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77	77	77	77
10	89	83	79	76	89	83	79	76	82	79	76	81	78	76	81	78	76	75	75	75	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	740962
5°	649518
10°	484448
15°	308171
20°	163421
25°	36882
30°	8859
35°	2545
40°	869
45°	262
50°	154
55°	172
60°	197
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170438

CATALOG NUMBER: LDA4A13830D010TE LAR25NF 4LA1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	34.5
10°-20°	659.3	49.6
20°-30°	195.0	14.7
30°-40°	13.8	1.0
40°-50°	1.6	0.1
50°-60°	0.7	0.1
60°-70°	0.5	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°	1313.2	98.7
0°-40°	1327.0	99.8
0°-60°	1329.3	100.0
0°-90°	1329.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1329.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6007	
5°	5246	459
15°	2413	659
25°	271	195
35°	17	14
45°	2	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170438

CATALOG NUMBER: LDA4A13830D010TE LAR25NF 4LA1

CANDELA DISTRIBUTION (FULL):

	0°
0°	6007.2
2.5°	5691.7
5°	5245.8
7.5°	4666.2
10°	3867.9
12.5°	3117.2
15°	2413.3
17.5°	1758.6
20°	1245.0
22.5°	788.3
25°	271.0
27.5°	118.2
30°	62.2
32.5°	31.5
35°	16.9
37.5°	10.0
40°	5.4
42.5°	3.1
45°	1.5
47.5°	0.8
50°	0.8
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.0
67.5°	0.8
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)