

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: P170450

Luminaire Tested: **LDA4A28930D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170450
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: LDA4A28930D010TE LAR25NF 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, 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

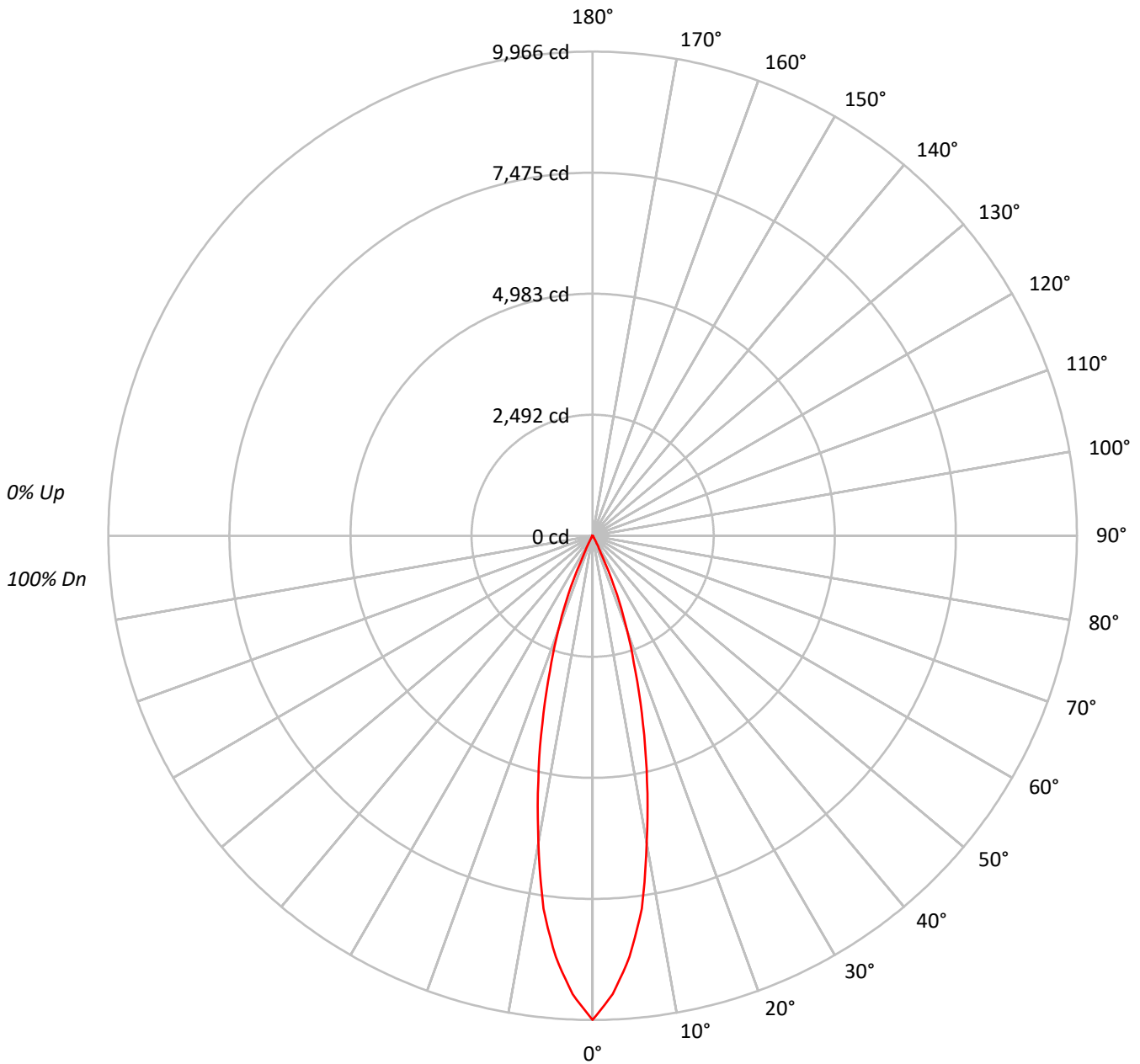
Lumens per Lamp: N/A
Luminaire Lumens: 2206.1 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.45
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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Luminous Intensity Polar Plot





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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	95	94
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86
6	99	93	89	86	98	93	89	86	91	88	85	90	87	85	89	86	84	83
7	97	90	86	83	95	90	86	83	89	85	83	88	85	83	87	84	82	81
8	94	88	84	81	93	87	83	81	86	83	81	85	82	80	85	82	80	79
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77
10	89	83	79	76	89	83	79	76	82	79	76	81	78	76	81	78	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1229238
5°	1077528
10°	803694
15°	511260
20°	271121
25°	61176
30°	14684
35°	4216
40°	1433
45°	436
50°	249
55°	280
60°	321
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.3	34.5
10°-20°	1093.8	49.6
20°-30°	323.5	14.7
30°-40°	23.0	1.0
40°-50°	2.6	0.1
50°-60°	1.2	0.1
60°-70°	0.8	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°	2178.5	98.8
0°-40°	2201.5	99.8
0°-60°	2205.3	100.0
0°-90°	2206.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2206.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9966	
5°	8703	761
15°	4004	1094
25°	450	323
35°	28	23
45°	2	3
55°	1	1
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9965.8
2.5°	9442.5
5°	8702.6
7.5°	7741.2
10°	6416.8
12.5°	5171.4
15°	4003.7
17.5°	2917.4
20°	2065.5
22.5°	1307.8
25°	449.5
27.5°	196.1
30°	103.1
32.5°	52.2
35°	28.0
37.5°	16.6
40°	8.9
42.5°	5.1
45°	2.5
47.5°	1.3
50°	1.3
52.5°	1.3
55°	1.3
57.5°	1.3
60°	1.3
62.5°	1.3
65°	0.0
67.5°	1.3
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)