

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: P1191645

Luminaire Tested: **LDA4A20935D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1191645
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: LDA4A20935D010TE LAR25NF 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

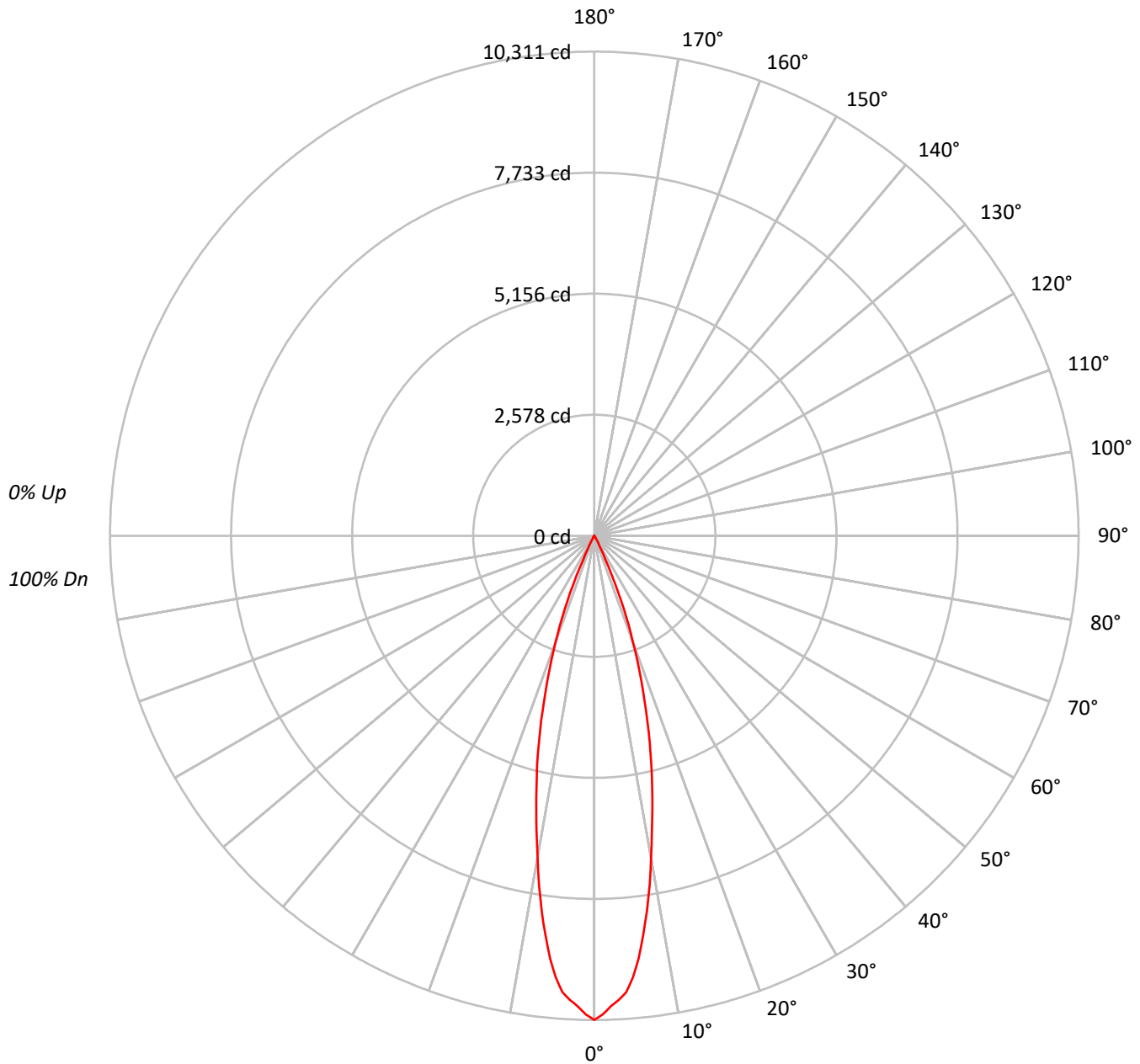
Lumens per Lamp: N/A
Luminaire Lumens: 2457.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	104	103	102	101	100	99	99	97		
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94		
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91		
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88		
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86		
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83		
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81		
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79		
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76		
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1271854
5°	1167976
10°	872481
15°	581148
20°	314805
25°	75098
30°	17576
35°	4999
40°	1723
45°	628
50°	230
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.5	33.3
10°-20°	1232.7	50.2
20°-30°	376.4	15.3
30°-40°	27.2	1.1
40°-50°	3.1	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°	2426.6	98.8
0°-40°	2453.7	99.9
0°-60°	2457.0	100.0
0°-90°	2457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10311	
5°	9433	817
15°	4551	1233
25°	552	376
35°	33	27
45°	4	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10311.3
1°	10195.0
2°	10027.6
3°	9901.8
4°	9741.6
5°	9433.1
6°	9045.0
7°	8559.6
8°	8058.9
9°	7524.9
10°	6966.0
11°	6433.1
12°	5945.3
13°	5477.7
14°	5026.8
15°	4551.0
17.5°	3418.8
20°	2398.3
22.5°	1496.5
25°	551.8
27.5°	223.1
30°	123.4
32.5°	61.7
35°	33.2
37.5°	19.0
40°	10.7
42.5°	5.9
45°	3.6
47.5°	1.2
50°	1.2
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

Classified
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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

Classified

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



— 0°-180°

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Scaled Data Report



85°		0.0
87.5°		0.0

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Scaled Data Report



(END OF REPORT)