

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: P1191668

Luminaire Tested: **LDA4A20940D010TE LAR35FL 4LAL1**

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: P1191668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26146)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A20940D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

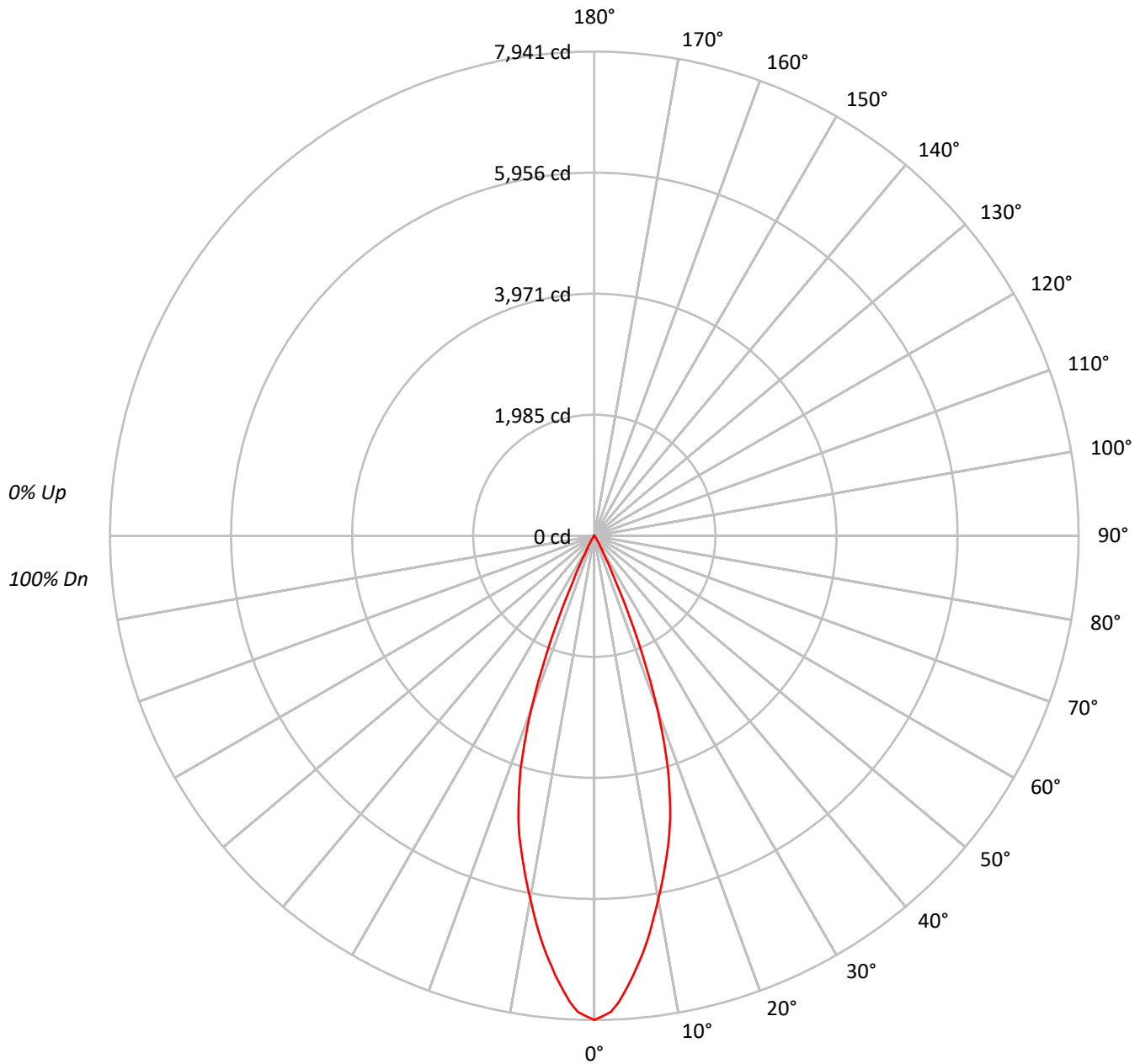
Lumens per Lamp: N/A
Luminaire Lumens: 2489.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	113	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	100	102	100	98		100	98	96		97
3	107	103	99	96	105	101	98	95	99	96	94		96	94	92		94
4	104	98	94	91	102	97	93	91	95	92	90		93	91	89		92
5	101	94	90	87	99	94	90	87	92	89	86		90	88	85		89
6	97	91	87	83	96	90	86	83	89	85	83		88	85	82		86
7	94	88	83	80	93	87	83	80	86	82	80		85	82	79		84
8	92	85	80	77	91	84	80	77	83	80	77		82	79	77		82
9	89	82	78	75	88	82	77	75	81	77	74		80	77	74		79
10	86	79	75	72	86	79	75	72	78	75	72		78	74	72		77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	979537
5°	897895
10°	757265
15°	614043
20°	397657
25°	114648
30°	25053
35°	7107
40°	2657
45°	1116
50°	499
55°	280
60°	321
65°	379
70°	469
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.4	26.3
10°-20°	1290.2	51.8
20°-30°	497.0	20.0
30°-40°	39.4	1.6
40°-50°	5.6	0.2
50°-60°	1.3	0.1
60°-70°	1.3	0.1
70°-80°	0.5	0.0
80°-90°	0.7	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°	2440.6	98.1
0°-40°	2479.9	99.6
0°-60°	2486.9	99.9
0°-90°	2489.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7941	
5°	7252	653
15°	4809	1290
25°	842	497
35°	47	39
45°	6	6
55°	1	1
65°	1	1
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7941.4
1°	7877.6
2°	7812.6
3°	7659.6
4°	7458.3
5°	7251.8
6°	7024.9
7°	6804.4
8°	6561.0
9°	6297.2
10°	6046.1
11°	5806.6
12°	5556.8
13°	5318.5
14°	5075.1
15°	4808.6
17.5°	4026.1
20°	3029.5
22.5°	1872.3
25°	842.4
27.5°	323.8
30°	175.9
32.5°	90.5
35°	47.2
37.5°	28.1
40°	16.5
42.5°	10.1
45°	6.4
47.5°	3.8
50°	2.6
52.5°	1.3
55°	1.3
57.5°	1.3
60°	1.3
62.5°	1.3
65°	1.3
67.5°	1.3
70°	1.3
72.5°	0.0
75°	0.0
77.5°	1.3
80°	0.0
82.5°	0.0

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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

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— 0°-180°

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85°	0.0
87.5°	1.3

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(END OF REPORT)