

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: P1212831

Luminaire Tested: **LDA4A35950D010TE 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: P1212831
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: LDA4A35950D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

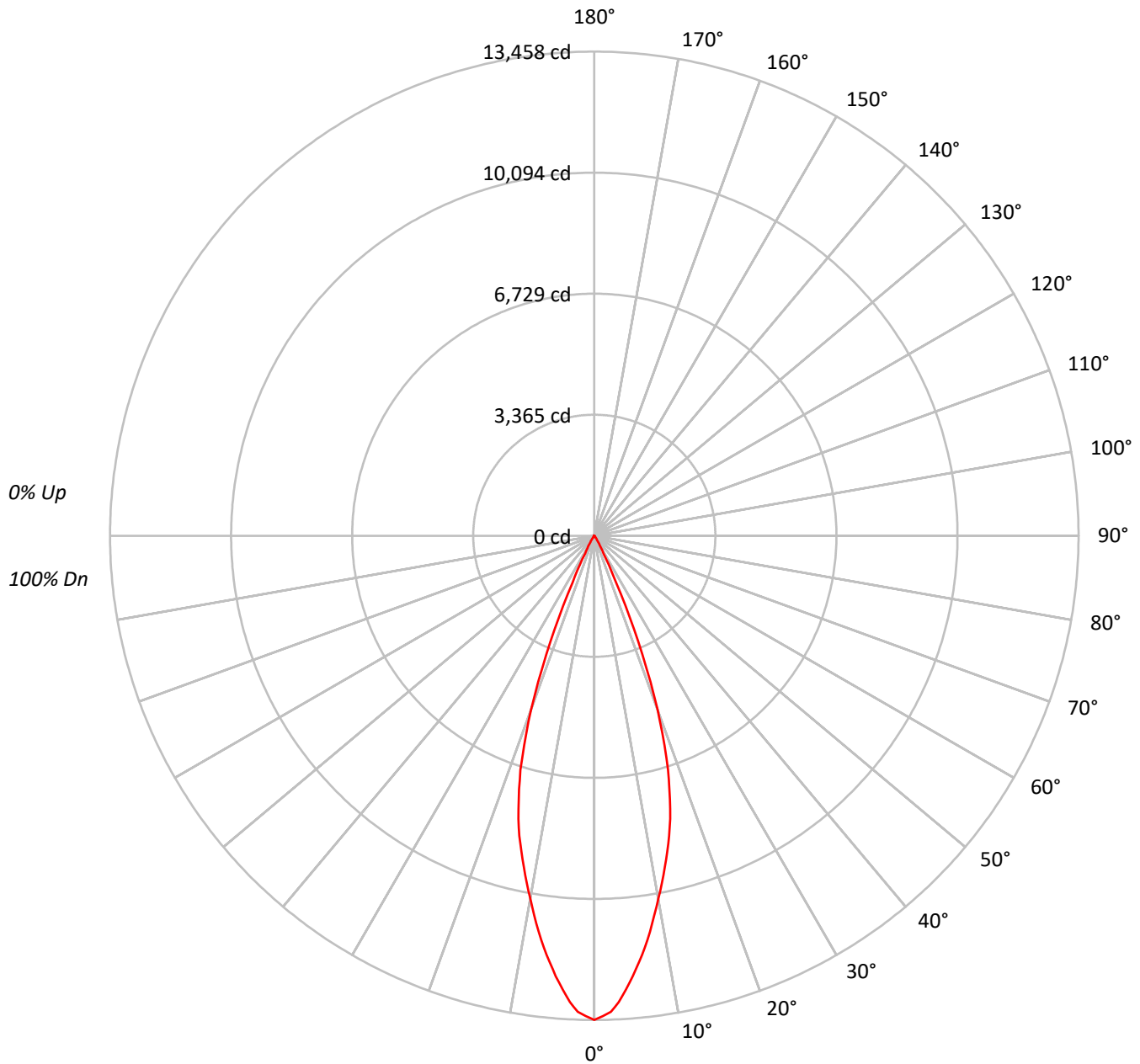
Lumens per Lamp: N/A
Luminaire Lumens: 4218.3 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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

TEST NUMBER: P1212831

CATALOG NUMBER: LDA4A35950D010TE LAR35FL 4LAL1

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212831

CATALOG NUMBER: LDA4A35950D010TE LAR35FL 4LAL1

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	113	111	109	107		107	105	104		103	102	101		100	99	98
2	111	107	104	102	109	106	103	100		102	100	98		100	98	96		97	96	94
3	107	103	99	96	105	101	98	95		99	96	94		96	94	92		94	92	91
4	104	98	94	91	102	97	93	91		95	92	90		93	91	89		92	89	88
5	101	94	90	87	99	94	90	87		92	89	86		90	88	85		89	87	85
6	97	91	87	83	96	90	86	83		89	85	83		88	85	82		86	84	82
7	94	88	83	80	93	87	83	80		86	82	80		85	82	79		84	81	79
8	92	85	80	77	91	84	80	77		83	80	77		82	79	77		82	79	76
9	89	82	78	75	88	82	77	75		81	77	74		80	77	74		79	76	74
10	86	79	75	72	86	79	75	72		78	75	72		78	74	72		77	74	72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1660035
5°	1521708
10°	1283371
15°	1040639
20°	673924
25°	194305
30°	42458
35°	12046
40°	4525
45°	1884
50°	844
55°	473
60°	543
65°	642
70°	793
75°	0
80°	0
85°	0



TEST NUMBER: P1212831

CATALOG NUMBER: LDA4A35950D010TE LAR35FL 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1107.4	26.3
10°-20°	2186.5	51.8
20°-30°	842.3	20.0
30°-40°	66.7	1.6
40°-50°	9.6	0.2
50°-60°	2.2	0.1
60°-70°	2.2	0.1
70°-80°	0.9	0.0
80°-90°	1.2	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°	4136.2	98.1
0°-40°	4202.8	99.6
0°-60°	4214.6	99.9
0°-90°	4218.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4218.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13458	
5°	12290	###
15°	8149	2186
25°	1428	842
35°	80	67
45°	11	10
55°	2	2
65°	2	2
75°	0	1
85°	0	1
90°	0	



TEST NUMBER: P1212831

CATALOG NUMBER: LDA4A35950D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	13458.4
1°	13350.5
2°	13240.3
3°	12981.1
4°	12640.0
5°	12290.0
6°	11905.5
7°	11531.9
8°	11119.3
9°	10672.3
10°	10246.6
11°	9840.6
12°	9417.3
13°	9013.4
14°	8600.9
15°	8149.3
17.5°	6823.2
20°	5134.2
22.5°	3173.0
25°	1427.7
27.5°	548.7
30°	298.1
32.5°	153.4
35°	80.0
37.5°	47.5
40°	28.1
42.5°	17.3
45°	10.8
47.5°	6.4
50°	4.4
52.5°	2.2
55°	2.2
57.5°	2.2
60°	2.2
62.5°	2.2
65°	2.2
67.5°	2.2
70°	2.2
72.5°	0.0
75°	0.0
77.5°	2.2
80°	0.0
82.5°	0.0

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

Scaled Data Report



TEST NUMBER: P1212831
CATALOG NUMBER: LDA4A35950D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



— 0°-180°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



85°	0.0
87.5°	2.2

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)