

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: P1191740

Luminaire Tested: **LDA4A25935D010TE 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: P1191740
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: LDA4A25935D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

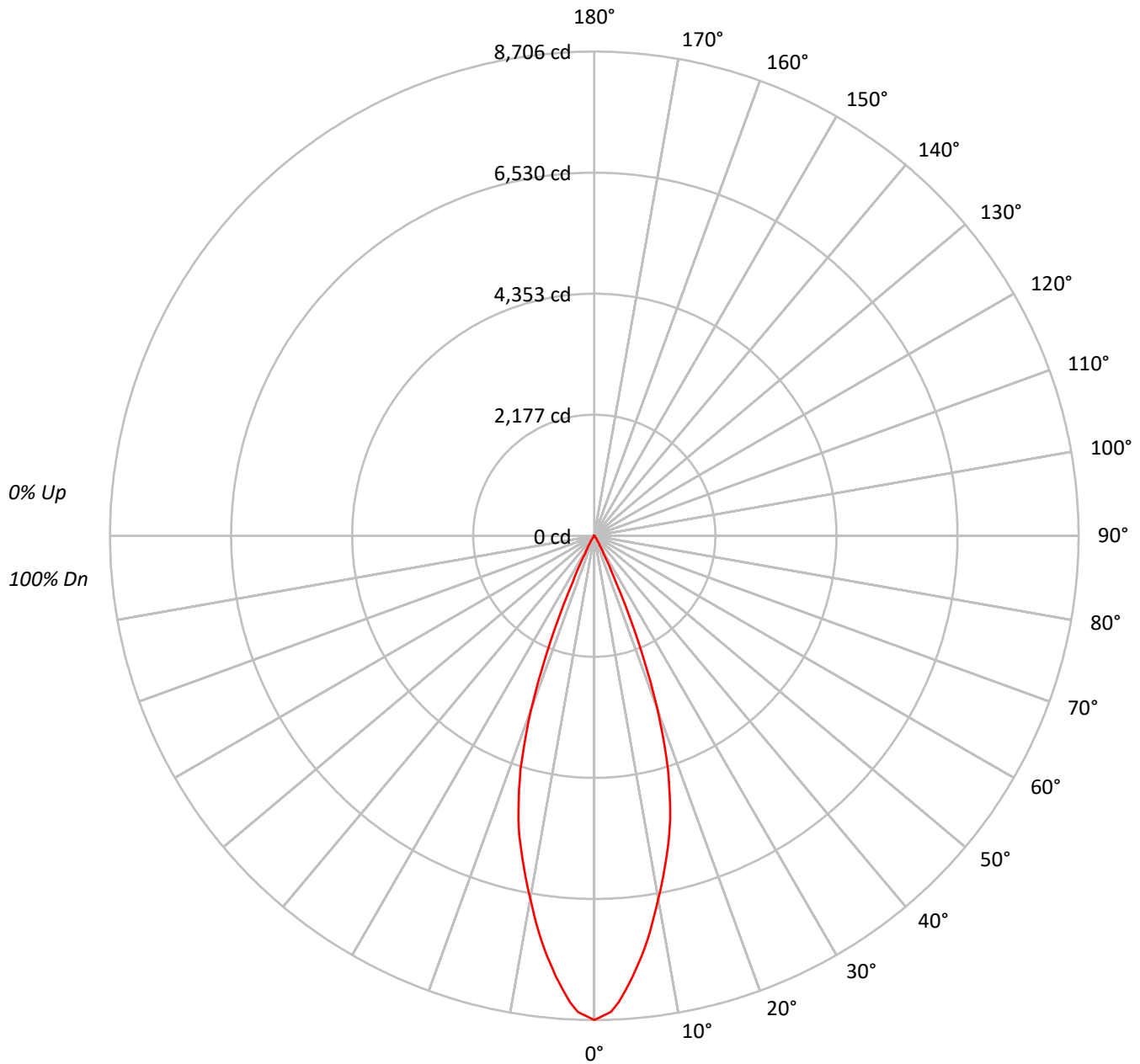
Lumens per Lamp: N/A
Luminaire Lumens: 2728.7 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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: P1191740

CATALOG NUMBER: LDA4A25935D010TE LAR35FL 4LAL1

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191740

CATALOG NUMBER: LDA4A25935D010TE 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	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	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96		
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94	93		
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90		
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88	86		
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83		
6	97	91	87	83	96	90	86	83	89	85	83	88	85	82	86	84	82	81		
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78		
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75		
9	89	82	78	75	88	82	77	75	81	77	74	80	77	74	79	76	74	73		
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72	71		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1073859
5°	984381
10°	830197
15°	673192
20°	435946
25°	125699
30°	27460
35°	7785
40°	2930
45°	1221
50°	537
55°	301
60°	345
65°	409
70°	505
75°	0
80°	0
85°	0



TEST NUMBER: P1191740

CATALOG NUMBER: LDA4A25935D010TE LAR35FL 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.3	26.3
10°-20°	1414.4	51.8
20°-30°	544.9	20.0
30°-40°	43.1	1.6
40°-50°	6.2	0.2
50°-60°	1.4	0.1
60°-70°	1.4	0.1
70°-80°	0.6	0.0
80°-90°	0.8	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°	2675.6	98.1
0°-40°	2718.8	99.6
0°-60°	2726.4	99.9
0°-90°	2729.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8706	
5°	7950	716
15°	5272	1414
25°	924	545
35°	52	43
45°	7	6
55°	1	1
65°	1	1
75°	0	1
85°	0	1
90°	0	



TEST NUMBER: P1191740

CATALOG NUMBER: LDA4A25935D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	8706.1
1°	8636.4
2°	8565.1
3°	8397.4
4°	8176.7
5°	7950.3
6°	7701.5
7°	7459.9
8°	7193.0
9°	6903.7
10°	6628.4
11°	6365.8
12°	6091.9
13°	5830.7
14°	5563.9
15°	5271.8
17.5°	4413.9
20°	3321.2
22.5°	2052.6
25°	923.6
27.5°	354.9
30°	192.8
32.5°	99.2
35°	51.7
37.5°	30.7
40°	18.2
42.5°	11.2
45°	7.0
47.5°	4.2
50°	2.8
52.5°	1.4
55°	1.4
57.5°	1.4
60°	1.4
62.5°	1.4
65°	1.4
67.5°	1.4
70°	1.4
72.5°	0.0
75°	0.0
77.5°	1.4
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: P1191740
CATALOG NUMBER: LDA4A25935D010TE 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°	1.4

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)