

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: P1212817

Luminaire Tested: **LDA4A35950D010TE LAR15SP 4LA1**

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: P1212817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25628)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A35950D010TE LAR15SP 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

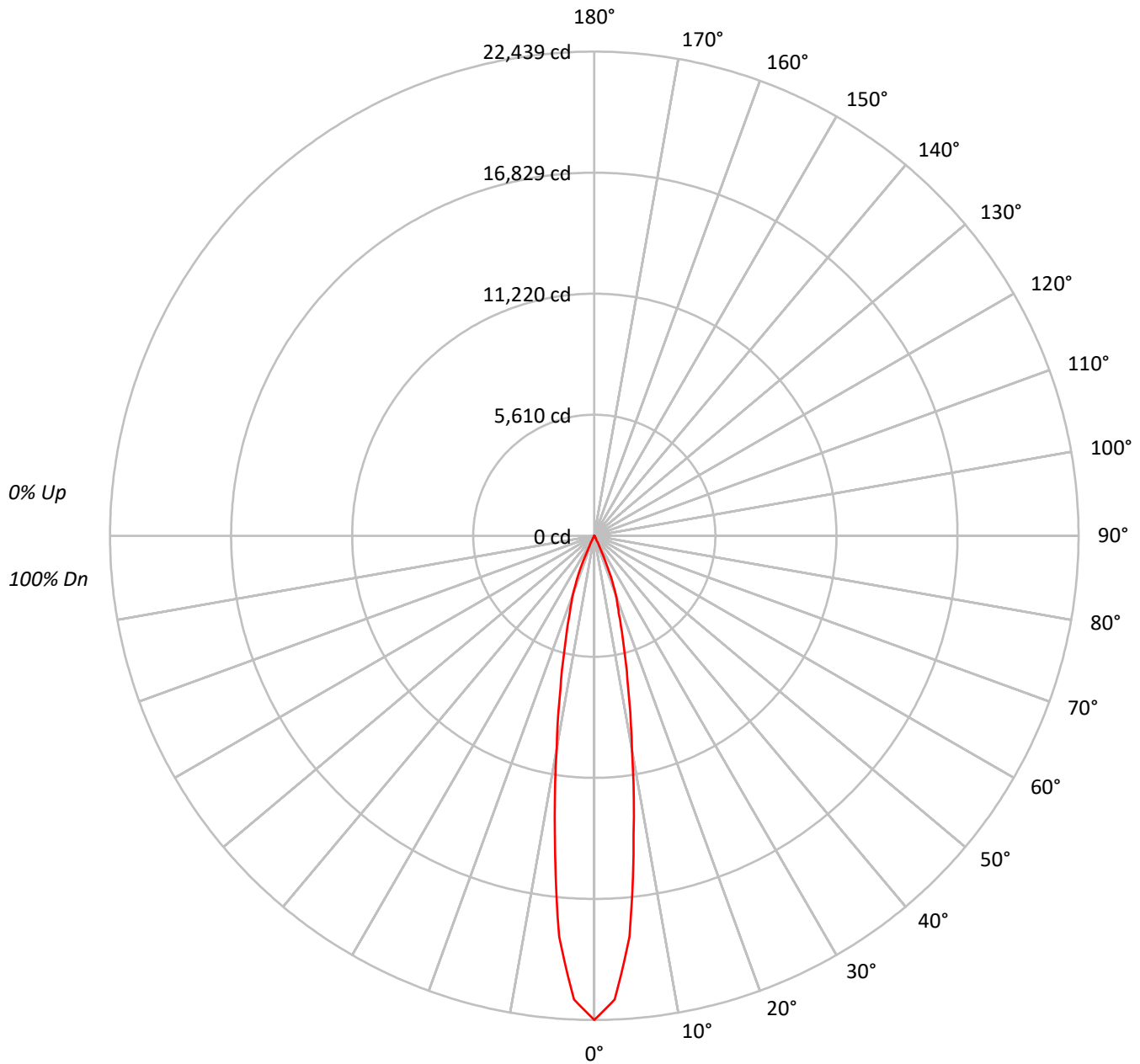
Lumens per Lamp: N/A
Luminaire Lumens: 3447.2 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.35
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P1212817

CATALOG NUMBER: LDA4A35950D010TE LAR15SP 4LA1

Luminous Intensity Polar Plot





TEST NUMBER: P1212817

CATALOG NUMBER: LDA4A35950D010TE LAR15SP 4LA1

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2767703
5°	2308985
10°	1255340
15°	666820
20°	379858
25°	74350
30°	15382
35°	4562
40°	1739
45°	768
50°	422
55°	473
60°	543
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P1212817
 CATALOG NUMBER: LDA4A35950D010TE LAR15SP 4LA1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1478.4	42.9
10°-20°	1506.2	43.7
20°-30°	432.1	12.5
30°-40°	24.5	0.7
40°-50°	3.7	0.1
50°-60°	2.0	0.1
60°-70°	0.3	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°	3416.7	99.1
0°-40°	3441.2	99.8
0°-60°	3446.9	100.0
0°-90°	3447.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22439	
5°	18648	###
15°	5222	1506
25°	546	432
35°	30	25
45°	4	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P1212817

CATALOG NUMBER: LDA4A35950D010TE LAR15SP 4LA1

CANDELA DISTRIBUTION (FULL):

	0°
0°	22438.6
2.5°	21510.1
5°	18648.4
7.5°	13970.6
10°	10022.8
12.5°	7228.3
15°	5221.9
17.5°	3779.4
20°	2893.9
22.5°	1824.9
25°	546.3
27.5°	209.6
30°	108.0
32.5°	56.1
35°	30.3
37.5°	17.3
40°	10.8
42.5°	6.4
45°	4.4
47.5°	2.2
50°	2.2
52.5°	2.2
55°	2.2
57.5°	2.2
60°	2.2
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
85°	0.0
87.5°	0.0
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



(END OF REPORT)