

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: P1191602

Luminaire Tested: **LDA4A20927D010TE LAR15SP 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: P1191602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26144)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A20927D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

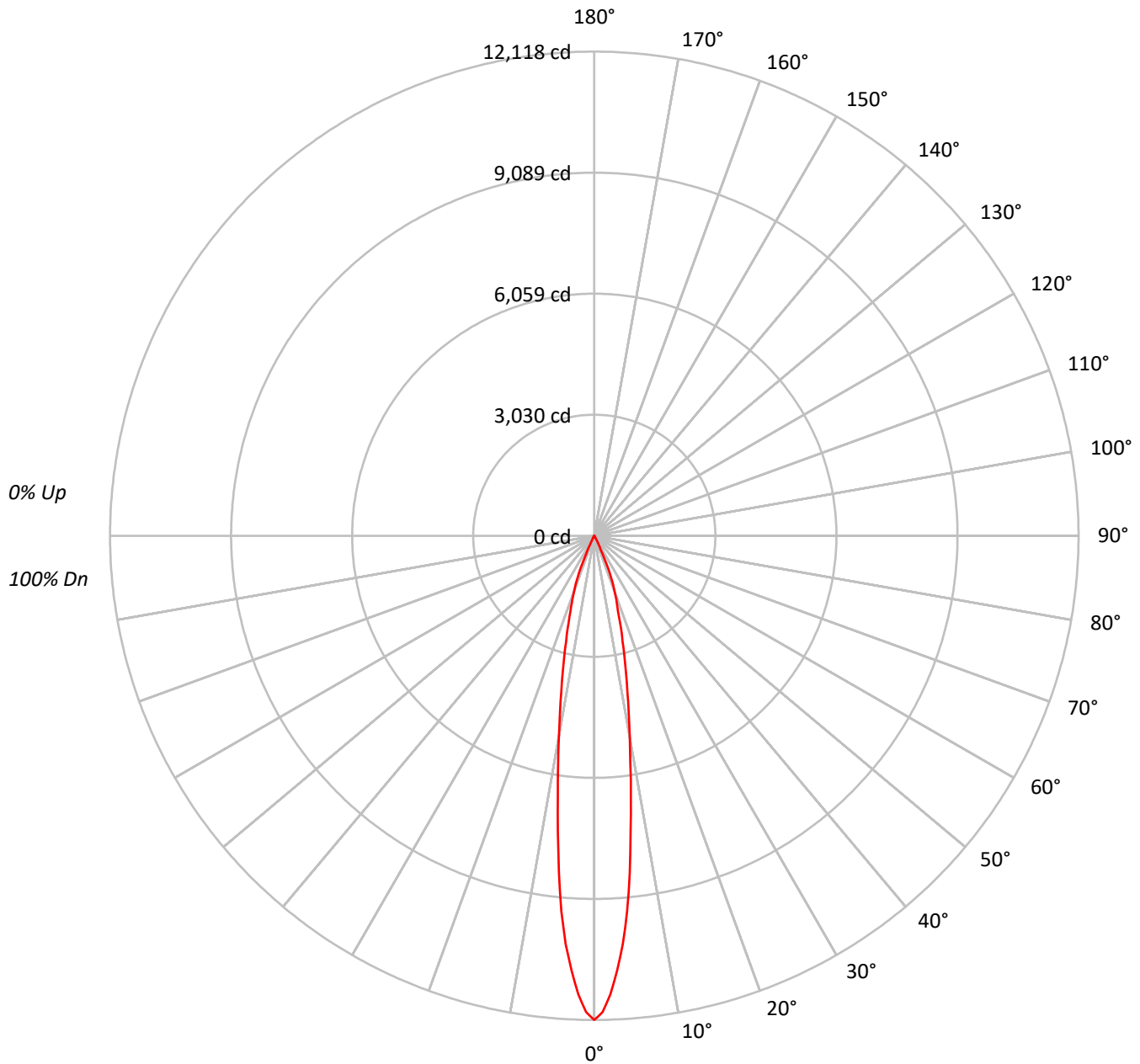
Lumens per Lamp: N/A
Luminaire Lumens: 1787.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.34
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1191602

CATALOG NUMBER: LDA4A20927D010TE LAR15SP 4LAL1

Luminous Intensity Polar Plot





TEST NUMBER: P1191602

CATALOG NUMBER: LDA4A20927D010TE LAR15SP 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	112	110	113	111	110	108	107	106	105		104	103	102		100
2	112	108	106	103	110	107	104	102	104	102	100		101	99	98		98
3	109	104	101	98	107	103	100	98	101	98	96		98	96	95		96
4	106	101	97	94	104	100	96	94	98	95	93		96	94	92		94
5	103	97	94	91	102	97	93	90	95	92	90		94	91	89		92
6	100	95	91	88	99	94	90	88	93	89	87		91	89	87		90
7	98	92	88	85	97	91	88	85	90	87	85		89	86	84		88
8	95	89	86	83	95	89	85	83	88	85	83		87	84	82		86
9	93	87	83	81	92	87	83	81	86	83	81		85	82	80		85
10	91	85	81	79	90	85	81	79	84	81	79		83	81	79		83

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1494752
5°	1168273
10°	638003
15°	348472
20°	196131
25°	49798
30°	9471
35°	3373
40°	1658
45°	890
50°	192
55°	215
60°	247
65°	292
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P1191602

CATALOG NUMBER: LDA4A20927D010TE LAR15SP 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.8	41.7
10°-20°	775.2	43.4
20°-30°	243.2	13.6
30°-40°	17.1	1.0
40°-50°	3.9	0.2
50°-60°	0.9	0.1
60°-70°	0.9	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°	1764.2	98.7
0°-40°	1781.3	99.7
0°-60°	1786.2	100.0
0°-90°	1787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12118	
5°	9436	746
15°	2729	775
25°	366	243
35°	22	17
45°	5	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P1191602

CATALOG NUMBER: LDA4A20927D010TE LAR15SP 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	12118.4
1°	11925.2
2°	11484.7
3°	10898.2
4°	10249.2
5°	9435.5
6°	8472.8
7°	7466.1
8°	6560.6
9°	5772.6
10°	5093.9
11°	4500.1
12°	3978.8
13°	3517.9
14°	3102.9
15°	2728.9
17.5°	1970.6
20°	1494.2
22.5°	1016.9
25°	365.9
27.5°	122.6
30°	66.5
32.5°	36.8
35°	22.4
37.5°	15.3
40°	10.3
42.5°	7.1
45°	5.1
47.5°	3.0
50°	1.0
52.5°	1.0
55°	1.0
57.5°	1.0
60°	1.0
62.5°	1.0
65°	1.0
67.5°	1.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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: P1191602
CATALOG NUMBER: LDA4A20927D010TE LAR15SP 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°	0.0

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)