

# ANTARIO LAMPS

User Manual

ENGLISH



CCEO

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## 1. General description of the product



- LED lighting system for installation inside industrial machines.
- Painted aluminium structure.
- Tempered glass with an anti-glare internal prismatic cone diffuser.
- High luminous efficiency LED light source.
- Uniform white light.
- Exceptionally powerful flow of light.
- 24VDC direct power supply.
- Available in four versions (built-in / external).

## 2. Safety Instructions

Each lighting appliance in the **ANTARIO** series is designed and manufactured using state-of-the-art technology. They are made with select high-quality materials. They are carefully checked during every production phase, right through to packaging, using a technical manufacturing table which guarantees reliability and safety.

Nevertheless, material damage or personal injury can occur during use.



- This manual is an integral part of the device. It should be kept close to the appliance.
- Please read all the instructions and information inside.
- Follow the warnings in the instructions and on the appliance.
- Only use the appliance if it is in perfect technical condition, taking into account the hazards and safety warnings.
- The manufacturer accepts no liability from any tampering and/or improper use of the device.

### 2.1 Proper use

This lighting appliance is designed for installation inside industrial machines.

### 2.2 Product safety

#### 2.2.1 Electrical hazards

Improper or incorrect use of the appliance can cause personal injury or material damage.

- It must be connected by a qualified electrician.
- Turn off the electricity before carrying out any installation, maintenance or repair work.
- Only connect to a 24VDC supply. Match the polarities of the electrical conductors.
- Make sure that the power supply is in line with the voltage indicated on the label.
- Maintenance and repair work must only be carried out by qualified staff.

#### 2.2.2 Risk of explosion

Risk of explosion might occur if this product is installed and use into applications with high risk of explosion. It might cause heavy individual injuries.

- **Do not** install and use this product where risk of explosion may occurs.

#### 2.2.3 Safe assembly

- Do not drop this lighting appliance, even if still in its

packaging, and do not hit it aggressively. It can cause personal injury and/or material damage.

- The apparatus must be correctly fasten using proper screws according to the application, place and surface where the product is mounted.
- Regularly check that the lamp is fastened to the structure.

#### 2.2.4 Hazardous glare caused by bright light sources

Staring directly at the light source can temporarily reduce your vision. It can cause irritation, discomfort, damage or accidents.

- Do not stare directly at the light source.
- Install the appliance so that the flow of light is not directly aimed at people's faces.

#### 2.2.5 Hazardous laser beams

The ANTARIO series lighting appliance must **not** be used around high power lasers, such as cutting lasers, because the laser beam can destroy the LED lights.

#### 2.2.6 Hazardous high temperatures

If you install and use the appliance in environments which exceed the permitted operating temperature, it will drastically reduce the life of the LEDs and will break the electronic components inside.

- **Do not** use the appliance in environments which exceed the maximum temperature permitted.
- **Operating temperature:**  
**-20/+55°C**
- Avoid direct sunlight.

#### 2.2.7 Hazardous repairs

If you dismantle or repair the product without appropriate knowledge of the appliance, it can cause damage to persons or property.

- Do not attempt to dismantle or repair the lamp. Contact qualified staff if you have any technical problems.
- Any unauthorised modifications or tampering with the product will void all warranty conditions.

## 2.3 Hazard levels



### DANGER

Hazards which, if ignored, **immediately** cause serious injury or even death.



### WARNING

Hazards which, if ignored, **could** cause serious injury or even death.



### ATTENTION

Hazards which, if ignored, could cause injury.

### CAUTION

Hazards which, if ignored, could cause material damage.

### 3. Available versions

The following table is provided so you can properly and optimally install and use this lighting appliance. You can therefore identify your chosen model and check its properties.

**NOTE:** the product code can be found on the plate on the lighting appliance.

- Find the code on the plate on the lighting appliance;
- Find and compare the model type from the table below;
- The barcode on the code label identifies the week and year of production of the appliance.

*N.B. keep the lamp's labels so you can make a claim if necessary.*

Model*	Power supply	Power	Current	Connection	Weight
ANTARIO27.I	24 Vdc	27 W	1,2 A	3P Cab 0.75mm2 L1.5m	1,40 Kg ~
ANTARIO42.I	24 Vdc	42 W	1,8 A	3P Cab 0.75mm2 L1.5m	2,70 Kg ~
ANTARIO68.I	24 Vdc	68 W	2,9 A	3P Cab 0.75mm2 L1.5m	3,00 Kg ~
ANTARIO96.I	24Vdc	96 w	4 A	3P Cab 0.75mm2 L1.5m	4,50 Kg ~
ANTARIO27.E	24 Vdc	27 W	1,2 A	3P Cab 0.75mm2 L1.5m	1,40 Kg ~
ANTARIO42.E	24 Vdc	42 W	1,8 A	3P Cab 0.75mm2 L1.5m	2,70 Kg ~
ANTARIO68.E	24 Vdc	68 W	2,9 A	3P Cab 0.75mm2 L1.5m	3,00 Kg ~
ANTARIO96.E	24Vdc	96 w	4 A	3P Cab 0.75mm2 L1.5m	4,50 Kg ~

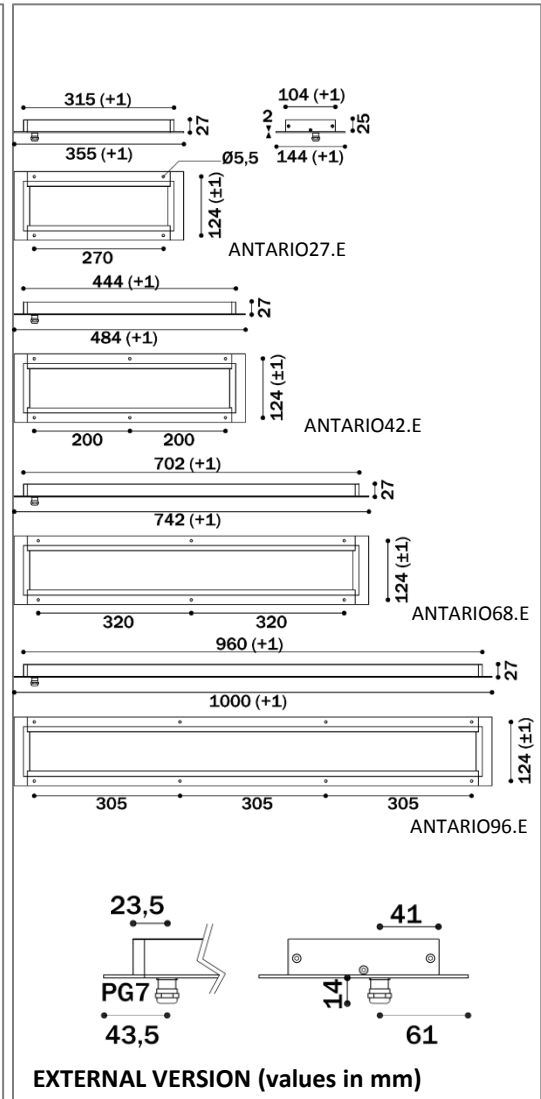
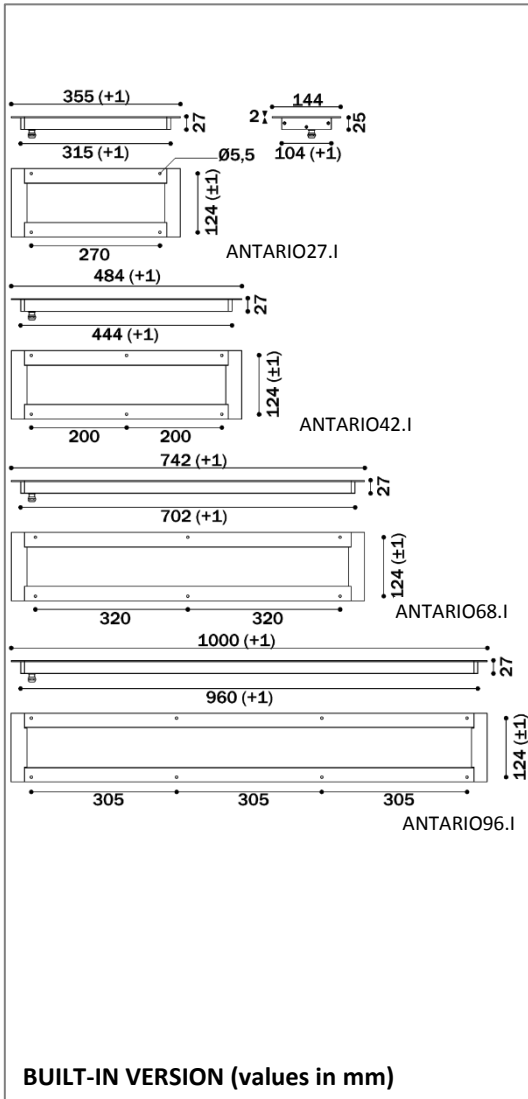
\*.I: built-in version / .E: external version

Cable length variations:

- ANTARIOxx.I \_\_\_\_\_ .C3 lamp with a 3m cable  
 .C5 lamp with a 5m cable  
 .C10 lamp with a 10m cable
- ANTARIOxx.E \_\_\_\_\_ .C3 lamp with a 3m cable  
 .C5 lamp with a 5m cable  
 .C10 lamp with a 10m cable

# 4. Installation guide

## 4.1 Lamp sizes



The tolerances depend on the working procedure of the raw materials. We recommend the installation of the lamp with passing screws.



## 6.2 Installation



### ATTENTION

If the lamp falls, it could cause personal or material damage.

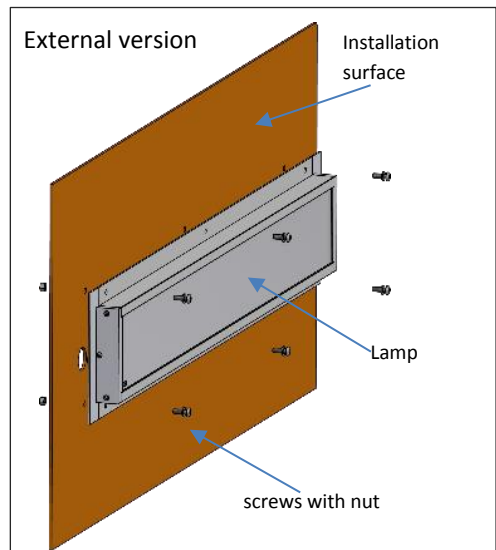
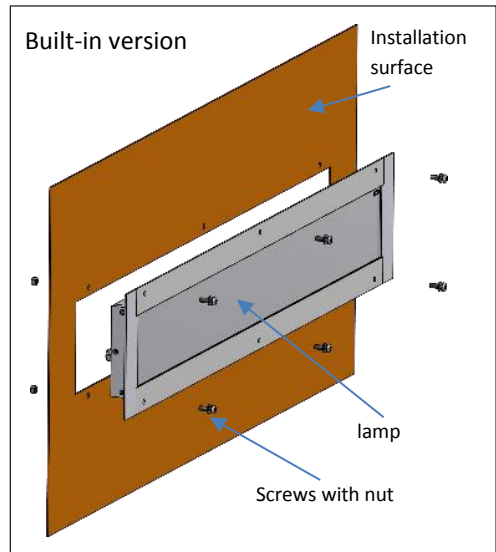
- Only use suitable fasteners to install the lamp.



### WARNING

Always switch off the electricity before proceeding with installation.

- Mark out the positions of the fastening holes on the installation surface. See the sizes table on page 8 for the drilling centre lines.
- Position the appropriately sized window frame so the body of the lamp can pass through (for built-in version)
- Rest the lamp on the structure and then fasten lining up the holes.
- Using proper M5 screws according to the application, place and surface where the product is mounted.



### CAUTION

Regularly check the fastening systems of the lamp.

## 5. Electrical connection



### WARNING

Always switch off the electricity before proceeding with the electrical wiring of the lamp.

Low-voltage 24VDC connection with cable

### CAUTION

Any material damage caused by wiring errors will damage the lamp.

- The electrical connection must be carried out by qualified staff.
- Match the polarities of the conductors.
- Use power cables with sections of at least 0.50 mm<sup>2</sup>

N.B. The cable outlet is on the back of the lamp.

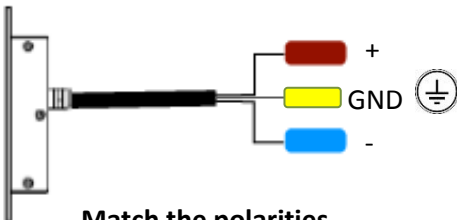
Cable type: 3x0.75mm<sup>2</sup>

### CAUTION

- Stay within the input voltage range for the lamp so you don't damage the LED drivers:

**Range of permitted voltage values**  
**23 ÷ 25.5VDC**

- Use a constant voltage power supply suitable for LEDs



#### Match the polarities

Brown/Black 1: 24VDC (+)

Blue/Black 2: 0VDC (-)

Yellow/green GND

Protection: reversed polarity

## 6. Switching on and off

- The lamp is not fitted with an independent system to switch it on and off.
- The lamp switches on when power is supplied and switches off when the power cuts off.

## 7. Troubleshooting

If the lamp does not switch on:

- Check whether the lighting system is connected to the power supply.
- Check that the connector pins are wired correctly.

If the lamp is faulty, please contact the CCEA technical support service.

**CCEA technical support**  
**Tel. +39 0444 572083**  
[tecnico@ccealights.com](mailto:tecnico@ccealights.com)  
[www.ccealights.com](http://www.ccealights.com)



**WARNING**

**Do not attempt to dismantle or open the lamp, otherwise you might run the risk of an electric shock or jeopardise the lamp's airtight seal. The warranty will be void.**



## 8. Replacing the light source

The exceptional duration of the LED light source, which lasts over 50,000 hours, means that you do not need to replace the LED circuits during the lamp's lifetime. If you need to replace the LED light source for reasons not covered by the warranty, please contact C.C.E.A. or see your authorised dealer.

## 9. Product maintenance and cleaning



**WARNING**

**Always switch off the electricity before proceeding with any maintenance.**

The lamp does not require any specific maintenance work.

- Switch the lamp off and wait for all parts to cool down before cleaning it.
- Use a soft cloth and mild detergents so you don't scratch the surface.

## 10. Repairs

### CAUTION

#### **Any material damage caused by faulty repairs will damage the lamp.**

- Any repairs must be carried out by the manufacturer or by qualified staff.
- Do not open and/or dismantle the lamp.

## 11. Warranty

### Warranty terms

CCEA guarantees to carry out any checks and repairs exclusively at the CCEA Technical Service or at an authorised official dealer throughout the product's lifetime. So please keep the lamp's labels and boxes for any potential repairs.

You will be notified of the costs of any repairs and spare parts once the faults have been analysed.

The warranty does not cover:

- Transport, packaging or shipping costs;
- Deterioration or damaged caused by:
  - Installation and/or use other than the instructions indicated in the user manual;
  - Repairs or attempted repairs by staff not authorised by CCEA Srl;

- Use of the equipment under environmental conditions other than those specified in the user manual;
- Penetration of liquids inside the lamp;
- Failure to comply with the recommended precautions for transporting and shipping any returns for repair (please use the original packaging).

## 12. Disposal

According to the provisions of Directive 2002/96/EC, electrical and electronic equipment must be recycled and may not be disposed of as urban waste. Therefore, when you decide to discard this piece of equipment and all its components, including the subsystems and consumables that form an integral part of the product, they must be taken to a local collection centre so they can be disposed of properly in accordance with existing legislation. Ask for information from your local municipal offices to find out where these centres are located.

### 13. Technical information





**NOTE:** the information shown on the lamp's label shall apply

Power supply	23-25.5VDC
Power	27-42
	68-96W (see label)
Class IEC	III
Protection rating	IP67
LED driver	IDS system
Light colour	6500K
CRI	80

**Operating Temperature** -20 + 55 °C

For other values see the table on page 7

### 14. Symbols

	CE conformity marking
<b>IP67</b>	IP67 protection
	LED lamp
	Class III insulation appliance
<b>24VDC</b>	24VDC lamp power supply
	Disposal according to Directive 2002/96/EC

## 15. Declaration of conformity

C.C.E.A. SRL, Via Piave, 2 - 36077 Altavilla Vicentina (VI) - VAT No and Tax Code 02374040240, declares under its sole responsibility that the ANTARIO series lighting system covered by this declaration complies with Directive 2006/95/EEC on low voltage, with Directive 89/336/EEC on electromagnetic compatibility and, in particular, with the following regulations:

<b>Directive</b>	<b>Description</b>
IEC EN 60598-1	Lighting equipment. Part 1: General requirements and tests. <i>Lighting equipment. Part 1: General instructions and tests.</i>
IEC EN 62471	Photobiological safety of lamps and lamp systems. <i>Photobiological safety of lamps and lamp systems.</i>
IEC EN 62031	LED modules for general lighting - Safety specifications. <i>LED modules for general lighting. Safety specifications.</i>
IEC EN 61347-2-13	Lamp control gear - Part 2-13: Particular requirements for D.C. or A.C. supplied electronic control gear for LED modules. <i>Part 2 Lamp control gear. Part 2-13 Particular requirements for DC or AC. Supplied electronic control gear for LED modules.</i>
IEC EN 62384	D.C. or A.C. electronic driver for LED modules - Performance requirements. <i>DC or AC supplied electronic control gear for LED modules. Performance requirements.</i>

This is a standard product and as such it has been made by the manufacturer according to a certain set of parameters, which guarantees trials and destructive tests to ensure it is safe, functional and durable.

C.C.E.A. SRL accepts no liability from any tampering and/or improper use of the device.

Date: 09-05-16

Week of production:

Item code:

**C . C . E . A . s r l**

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