

MADE IN FRANCE

NEW-GENERATION LIGHTING DIMMABLE* 48 LEDS ONLY

INSTALLATION GUIDE

ECO COOL WHITE

33 LEDS

COLD WHITE

48 LEDS

WARM WHITE

48 LEDS

RGBW

48 LEDS

LIGHT BULB PAR56



RENOVATION
ELEGANCE / DESIGN



CONSTRUCTION
ELEGANCE / DESIGN



COMPATIBLE WITH THE
APPLICATION AND
REMOTE CONTROL



NOTNEWPROJ_EN 26/01/19

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weltico

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1.MEANING OF SYMBOLS

In this manual, these symbols indicate a WARNING. It alerts you to the risk of damage to equipment or serious personal injury. These warnings MUST be observed!



DANGER: Risk of electric shock



DANGER : Risk of personal injury.



ATTENTION Risk of deterioration of the installation.



Safety pictogram of EN ISO 7010:2012 - M002, consult the manual/
instructions

2.GENERAL SAFETY INSTRUCTIONS



READ THE INSTRUCTION MANUAL CAREFULLY AND KEEP IT FOR FUTURE REFERENCE.

It is essential for the installer and user to read these instructions before starting installation, commissioning and maintenance work.

The list of recommendations below is not exhaustive, and maximum care must be taken when handling the projector.

- **The safety and correct operation of the filter will be guaranteed if, and only if, all installation and commissioning instructions are followed.**
- **In the event of malfunction or damage, please contact your dealer.**



Electrical installations for swimming pools must comply with the requirements of the regulations in force (domestic electrical network) and the standards relating to low-voltage installations applicable in the country of installation regarding standard IEC 60364-7-702 [e.g. NF C15-100-7-702 for France]. Please contact the organisation responsible for the standardisation system in the country of installation.



Underwater lighting installed in volume 0 must be supplied with a safety extra-low voltage (SELV).



Installing this product may expose you to electric shock. We strongly recommend that you call in a qualified electrician. A faulty installation could put you in danger and cause irreversible damage to the product and the equipment connected to it.



Switch off the upstream power supply before working on the electrical installation.



To be connected only to a circuit protected by a differential device. If you are unable to check that this type of protection is in place, contact a qualified electrician.

3. PACKAGING COMPOSITION

Kit Ampoule PAR 56 ou Ampoule carrée	Bulb (white or colour version) + instructions
Design Renovation Kit	Bulb + connector + O-ring + cable gland and gasket + mounting brackets + screws kit
Kit Rénovation Élégance	Bulb + white bezel + connector + O-ring + cable gland and gasket + mounting brackets + screws kit
Kit Construction Élégance ou Design	Renovation kit + recess + recess cable gland and gasket + cable protection sheath + flange and counter-flange gaskets + screws + electrical cable

Hubcaps can be ordered as an option.

4. TECHNICAL SPECIFICATIONS

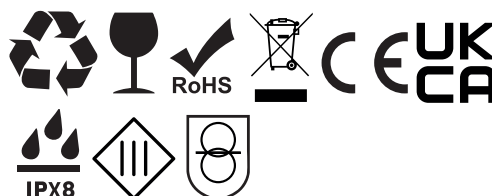
	Blanc / White			Colour
	33 Cool White ECO LEDs	48 Cool White LEDs	48 Warm White LEDs	48 LEDs RGBW
References concerned	630001 / 640001 / 670001 / 650001 / 650011 / 660001 660011	630002 / 640002 / 670002 / 650002 / 650012 / 660002 / 660012	630003 / 640003 / 670003 / 650003 / 650013 / 660003 / 660013	630004 / 640004 / 670004 / 650004 / 650014 / 660004 / 660014
Input voltage / Frequency	12 V AC / 50 Hz	12 V AC / 50 Hz	12 V AC / 50 Hz	12 V AC / 50 Hz
Power consumed in VA	13.1	22.1	22.1	24.9*
Power consumed in watts +/- 10% of rated power	10.5	16.6	16.6	19.7*
Colour temperature	6500 Kelvin	6500 Kelvin	2500 Kelvin	RGBW
Luminous flux +/- 10	1800 Lumens	2600 Lumens	2600 Lumens	1800 Lumens
	>100000	>100000	>100000	>100000
Protection index	IPX8 / 1m	IPX8 / 1m	IPX8 / 1m	IPX8 / 1m
Maximum operating temperature of a supplied cable winding in °C	+ 70°C dans in air +50°C in water	+ 70°C in air +50°C in water	+ 70°C in air +50°C in water	+ 70°C in air +50°C in water

*With all 48 LEDs lit

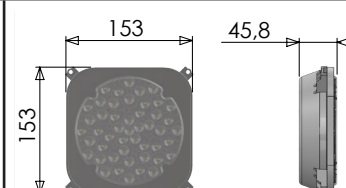
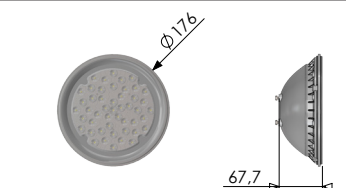
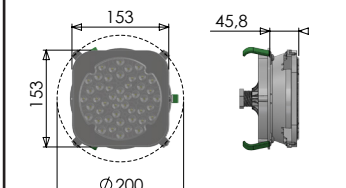
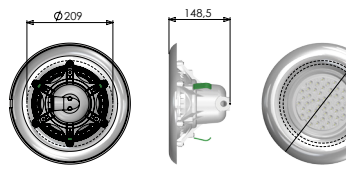
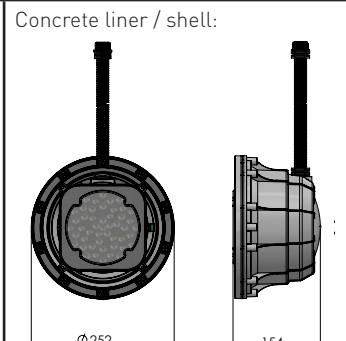
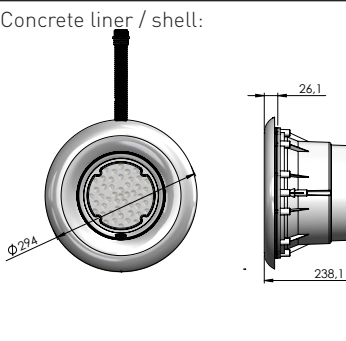
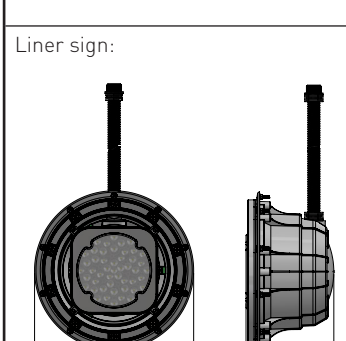
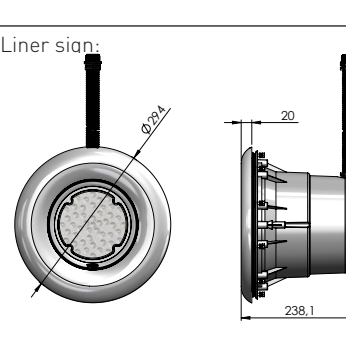
The maximum water temperature must be 40°C.

Use only with safety transformer

Use only when immersed in water.



DIMENSIONS

	For the Design line	For the Élégance line
Bulbs only		
Bulbs + connectors		
Bulbs + connectors + niches (trims optional for Design)	Concrete liner / shell: 	Concrete liner / shell: 
	Liner sign: 	Liner sign: 

5.INSTALLATION AND ASSEMBLY

5.1. RECOMMENDATIONS



Use only if immersed in water.



Operation only with a class III safety transformer (toroidal transformer), 230V~ / 12V ~. The power supply must be 10% higher than the power absorbed by each spotlight.

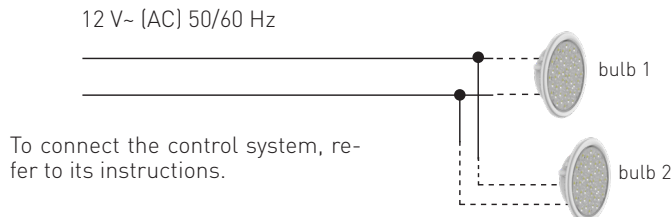
EXAMPLES:

- 2 projectors 48 white LEDs of 22.1 VA : $2 \times 22.1 = 44.2$ VA
➔ With +10%, this gives a requirement of 48.62 VA, so a 50 VA transformer is sufficient.
- 2 projecteurs 48 Leds RGBW de 24.9 VA : $2 \times 24.9 = 49.8$ VA
➔ With +10%, this means a requirement of 54.78 VA, so a 100 VA transformer is needed.
Voltage drops can be very high with poor connections, loose terminals and oxidised wires. Measure the voltage at the end of the cable without the lamp:
- Tension minimale requise : 10,5V
- Maximum supported voltage: 13.5V.

A connection box should also be provided to integrate the connection between the cables. It must be connected via watertight PVC pipes or sheaths less than 2 metres from the part to be sealed.

5.2. ELECTRICAL CONNECTION

Maintain a distance of at least 50 cm between the cables of the 12 V AC supply line and the cables of the 230 V AC supply line; do not mix them in the same cable trays.



Switch off the upstream power supply before working on the electrical installation.



connect only to a circuit protected by a differential device. If you cannot be sure that this type of protection is present, contact a qualified electrician.

If the flexible outer cable of this luminaire is damaged, it must only be replaced by a qualified person to avoid any risk.



The connection between the floodlight cable and the cable to the equipment room must always be above the water level. It is essential that the connection is made in a dry place and integrated into a waterproof connection box.

5.2.1. SPECIFICATIONS



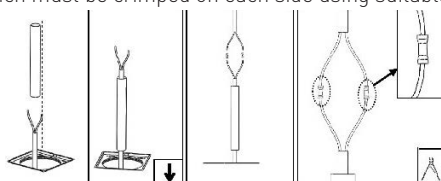
COOL WHITE BULB 48 LEDS ONLY: The luminaire should be positioned in such a way that it is not possible to look directly at it from a distance of less than 2.66 m.



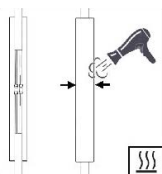
COOL WHITE BULB 33 LEDS ONLY: The luminaire should be positioned in such a way that it is not possible to look directly at it from a distance of less than 2.49 m.

5.2.2. TIGHTNESS OF CONNECTION

1. Check the presence of the sleeve terminals and the resin-coated heat-shrink tubing
2. Insert the resin-coated heat-shrink tubing over one of the two cables, then connect the 2 cables using the sleeve terminals, which must be crimped on each side using suitable pliers.



3. Perform an electrical test before bonding the sheath
4. Slide the sheath and position it so that the sleeve lug is in the middle and there is the same length of sheath on each of the 2 cables. Heat the sheath using a heat gun, working from the centre of the sheath towards the ends to avoid an air pocket forming in the middle.



DO NOT STAND TOO CLOSE TO THE GASKET WITH THE THERMAL SCRUBBER SO AS NOT TO BURN IT



5. The operation is complete once the sleeve has been retracted along its entire length. You will see the resin protruding very slightly at each end. The purpose of this seal is to prevent water seeping into the floodlight via the copper strands of the cable. If our after-sales service detects any such infiltration, we will refuse to accept the guarantee for these floodlights.



Reminder: THE CONNECTION MUST ALWAYS BE ABOVE THE WATER LEVEL.

6. Integrate the connection in a watertight junction box (cable glands tightened and cover screwed on to compress the gasket). To use the junction box, refer to its instructions.

A double seal is essential if heat-shrink tubing is used.:

- Watertight connection between the floodlight cable(s) and the cable to the equipment room,

Tightness of the junction box inside which the cables are connected.

A solution with Wago (2 x 3 entries for cable from 0.5 to 6 mm²) + adapted gel box is proposed in the ACIS catalogue for the connection between the cables.

5.3. CABLE CROSS-SECTION :

Refer to the table below to define the cable cross-section according to length and power.

33 Leds white ECO	1 bulb: : 10,5 W	2 bulbs: 2 x 10,5 W	48 Leds White	1 bulb: : 16,6 W	2 bulbs: : 2 x 16,6 W	48 Leds RGBW	1 bulb: : 19,7 W	2 bulbs: 2 x 19,7 W
Cable cross-section	Maximum distance	Maximum distance	Cable cross-section	Maximum distance	Maximum distance	Cable cross-section	Maximum distance	Maximum distance
2 x 1 mm ²	5 mL	3 mL	2 x 1 mm ²	3 mL	2,5 mL	2 x 1 mm ²	3 mL	2 mL
2 x 1 mm ²	6,5 mL	4,5 mL	2 x 1 mm ²	4,5 mL	3,5 mL	2 x 1 mm ²	4,5 mL	2,75 mL
2 x 1,5 mm ²	10 mL	6,5 mL	2 x 1,5 mm ²	6,5 mL	5 mL	2 x 1,5 mm ²	6,5 mL	4 mL
2 x 2,5 mm ²	16,5 mL	11 mL	2 x 2,5 mm ²	11 mL	8,5 mL	2 x 2,5 mm ²	11 mL	6,5 mL
2 x 4 mm ²	26,5 mL	17,5 mL	2 x 4 mm ²	17,5 mL	13,5 mL	2 x 4 mm ²	17,5 mL	10,5 mL
2 x 6 mm ²	39,5 mL	26,5 mL	2 x 6 mm ²	26,5 mL	20 mL	2 x 6 mm ²	26,5 mL	16 mL
2 x 10 mm ²	66,5 mL	44 mL	2 x 10 mm ²	44 mL	33,5 mL	2 x 10 mm ²	44 mL	25,6 mL

Stable operation of the pool lighting is only guaranteed if the cross-section of the installed cable not supplied matches or exceeds the values recommended in the table above.

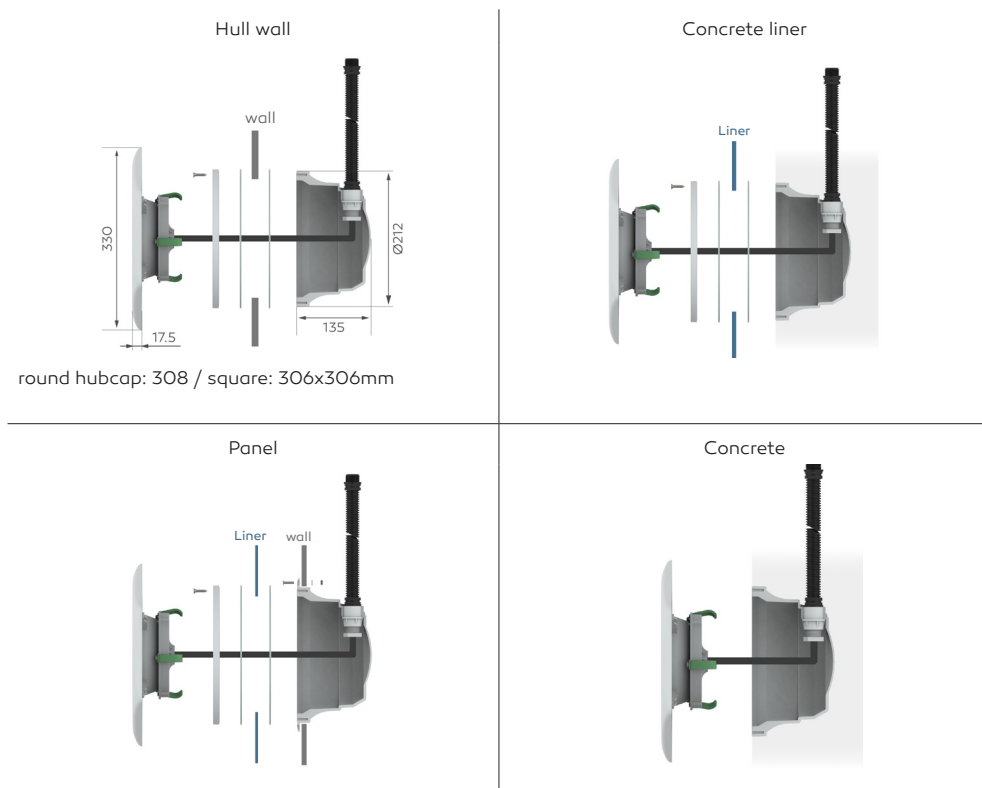
5.4. INTEGRATION INTO THE STRUCTURE

We recommend that you call in a professional to seal the niche.

In accordance with AC P 90-326, it is necessary to use a non-shrink mortar or concrete with specific additives. In addition, it is important to respect the mixing ratio with water, otherwise excess stresses will gradually be exerted on the parts (see trade rules and obtain information from manufacturers). In addition, it is imperative to protect the visible surfaces and openings of the assembly (plastic parts) with site protection during sealing to avoid material burns caused by the concrete.

Install the floodlight between 50 and 60 mm below the water level, respecting the order of assembly of the components below according to the structure of the pool.

Please note: the installation principles between the Design and Elegance lines are identical, even if the geometry of the parts is not identical (shape, bulb, connector). The visuals below correspond to parts that are compatible with Design wheel trims.

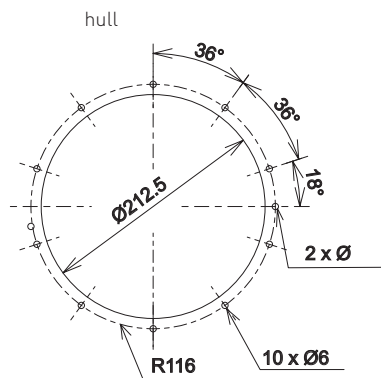


Insert the cable into the cable gland at the bottom of the niche, leaving enough length to lay the floodlight on the coping.

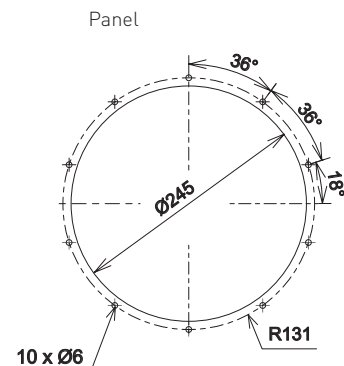
Tighten the cable gland and all that remains is to insert the floodlight into the niche.

The lugs screwed onto the connector behind the bulb should rub against the inside walls of the recess, and can be twisted slightly to do so.

Template for positioning flange holes and liner cut-out diameter



Template for positioning the fixing holes in the panel and the diameter of the cut-out for integrating the recess



5.5. INSTRUCTIONS FOR REPLACING THE BULB

The light source in this luminaire is not replaceable; when the light source reaches the end of its life, the entire luminaire must be replaced.



CAUTION: SWITCH OFF THE PROJECTOR BEFORE REPLACING THE BULB.

Remove the spotlight from its recess and place it on the coping.

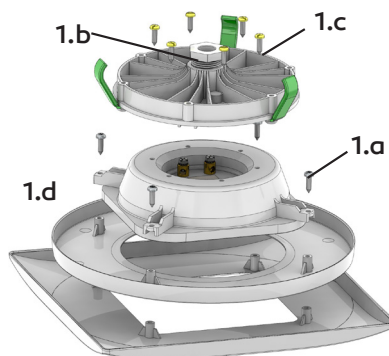
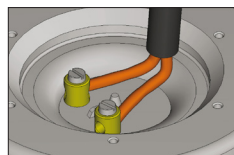
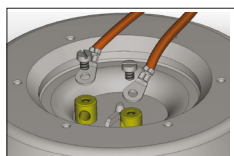
- ➔ a - Unscrew the 4 trim screws
- ➔ b - Loosen the cable gland.
- ➔ c - Unscrew the six screws to release the assembly.
- ➔ d - Unscrew the 2 screws to release the cable.

7. Replace the bulb and proceed with reverse assembly.

Tighten the 6 screws securely to ensure the seal, which can be checked by the contact between the 2 parts. The cable gland must be tightened sufficiently to compress the seal (use a spanner).

Remember to replace the bulb seal on its support with a new seal, then fit the lamp in place of the original bulb. Failure to replace the gasket could lead to water seeping between the lamp and its support, resulting in damage to the lamp.

8. Replace the projector in its recess.



6.PROGRAMMING PROJECTORS

6.1. WHITE ECO NON-DIMMABLE SPOTLIGHT

No programming.

6.2. 48 LED COOL WHITE AND WARM WHITE SPOTLIGHT

You can dim the light using micro-cuts.

- Intensity values: 0 - 50% - 75% - 100
- Type of micro cuts :
 - ➔ Mechanical from 200 ms to 1s with chronological sequence;
 - ➔ Coded for direct selection of the desired value via the «On.e» application solution.

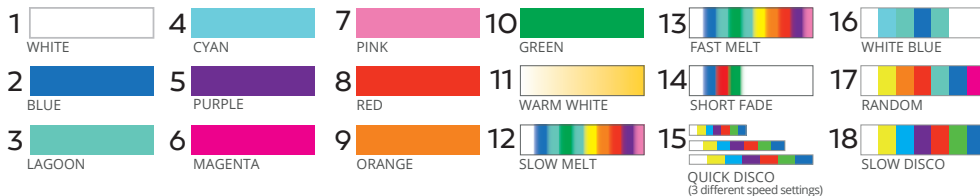
If 2 bulbs connected in parallel go out of sync, turn them off, wait at least 5 seconds and then turn them back on. By default, the bulbs will restart in the factory-set mode.

To control your lighting, you need a control box (see ACIS catalogue). You will find the control instructions with the product you have chosen.

6.3. COLOUR RGBW PROJECTOR

You can vary the colour using micro-cuts in 18 programmes.

ORDER OF PROGRAMMES :



TYPES OF MICRO CUTS :

- Mechanical from 200 ms to 1s with chronological sequence;
- Coded for direct selection of the desired value via the «On.e» application solution.

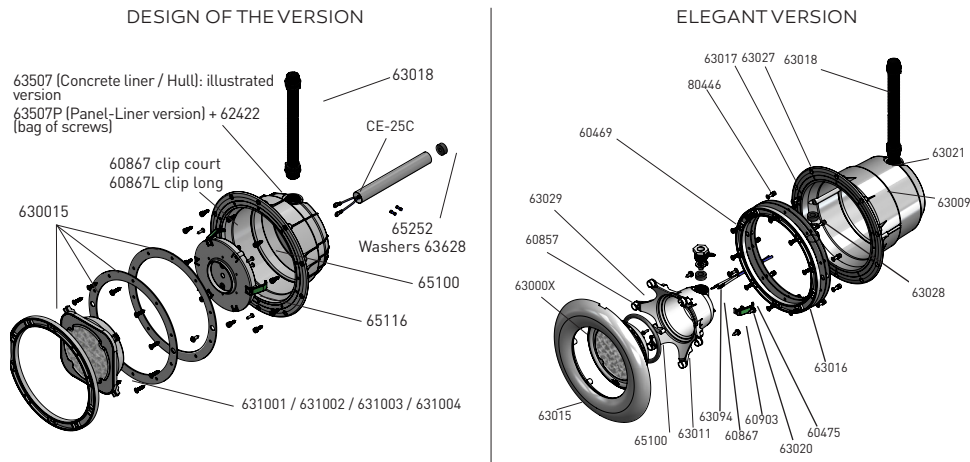
Staying on a programme for more than 4 seconds after a micro cut causes it to be saved.

To control your lighting, you need a control box (see ACIS catalogue). You will find the control instructions with the product you have chosen.

If your parallel colour bulbs are out of sync:

- If you have a mechanical micro cut control mode: turn off the bulbs, wait at least 5 seconds then turn them back on. Before 4 seconds, make a micro cut then switch off before the next 4 seconds of this micro cut. The bulbs will return to the factory default programme.
- If you have a coded micro-cut control mode (On.e application): turn off the bulbs, wait at least 5 seconds and then turn them back on. The last recorded programme will be reactivated and must be the same. If this is not the case, choose a new programme and the same command will be transmitted to the bulbs and saved.

7.SPARE PARTS



8.GUARANTEEE

ACIS, responsible for marketing Weltico lighting products, certifies that this product has been designed and manufactured in accordance with European directives and is free from defects in materials and workmanship. A legal guarantee from the seller of 2 years from the date of purchase applies:

- against defects in conformity in accordance with the provisions of the French Consumer Code,
- against hidden defects in accordance with the provisions of the Civil Code.

Under articles L. 217-4 et seq. of the French Consumer Code, buyers have the right to obtain from the seller the repair or replacement, free of charge, of products (subject to the cost conditions set out in article L. 217-9) that have a lack of conformity, by notifying the seller of this defect within 2 years of the date of purchase.

This seller's legal guarantee covers parts and labour returned to the workshop, provided that it does not fall within the scope of the guarantee exclusions.

Under articles 1641 et seq. of the French Civil Code, if there was a hidden defect when the product was purchased, the buyer has the right to return the product and obtain reimbursement of the price from the seller within 2 years of the discovery of the defect.

EXCLUSIONS FROM COVER

The warranty will not apply if the installation does not conform in all respects to that described in this manual.

Transferring an appliance that has already been installed invalidates the warranty. The new owner must be informed of this exclusion and will be deemed to have accepted it in the event of an incident. The warranty does not cover the following points:

- Any adaptation or modification intended to improve the product with respect to its initial performance, as described in this manual, without the prior written consent of ACIS ;
- Transport costs and risks ;
- Damage resulting from: misuse, inappropriate use of the device or failure to comply with the installation instructions in this manual;
- Modifications carried out by unauthorised parties or by the user himself ;

9. ENVIRONMENTAL PROTECTION

Protecting the environment is essential. Our company is strongly committed to this. Our products are designed and manufactured using high-quality, recyclable materials and components.

10. IDENTIFICATION, COMPLIANCE AND ENERGY CLASS

PRODUCT MANUFACTURER'S NAME :

ACIS France - 15 rue des marais - 44310 Saint-Philbert de Grand Lieu - téléphone : 02 40 59 95 35

NAMES AND MODEL NUMBERS :

	ECO 33 cool white LEDs	48 cool white LEDs	48 warm white LEDs	48 RGBW colour LEDs
par56 bulb alone (elegance)	630001	630002	630003	630004
single square bulb (design)	631001	631002	631003	631004
Renovation design spotlight	640001	640002	640003	640004
Renovation Elegance Spotlight	670001	670002	670003	670004
construction design spotlight in concrete-liner / shell versions	650001	650002	650003	650004
construction design spotlight in panel-liner version	650011	650012	650013	650014
construction Elegance spotlight in concrete-liner / shell versions	660001	660002	660003	660004
construction Elegance spotlight in panel-liner version	660011	660012	660013	660014

ENERGY CLASS LABELS

