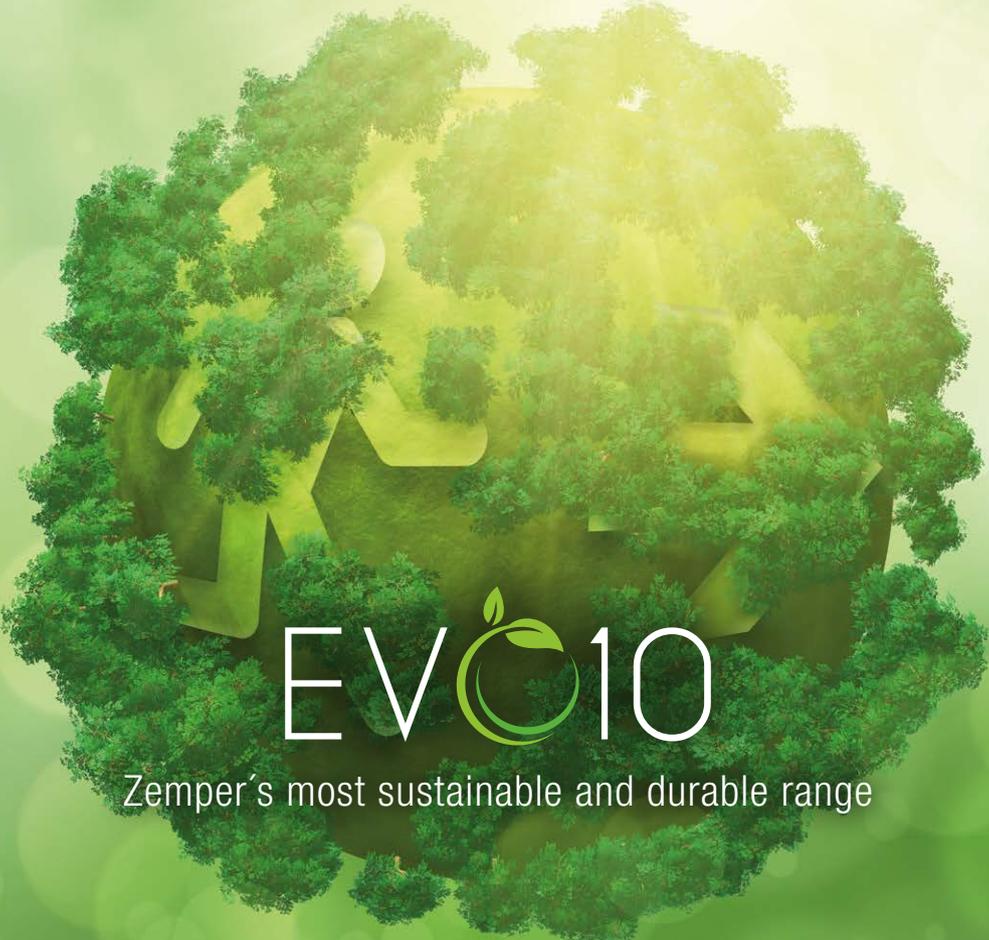


**ZEMPER**

THE EMERGENCY LIGHTING SPECIALIST



EVOL10

Zemper's most sustainable and durable range

# Environmentally Friendly Emergency Luminaires

At Zemper we develop more environmentally friendly emergency luminaires. This means the implementation, in our production system, of innovative strategies such as:



**Dematerialization**, i.e. the use of fewer resources for the production of the same products.

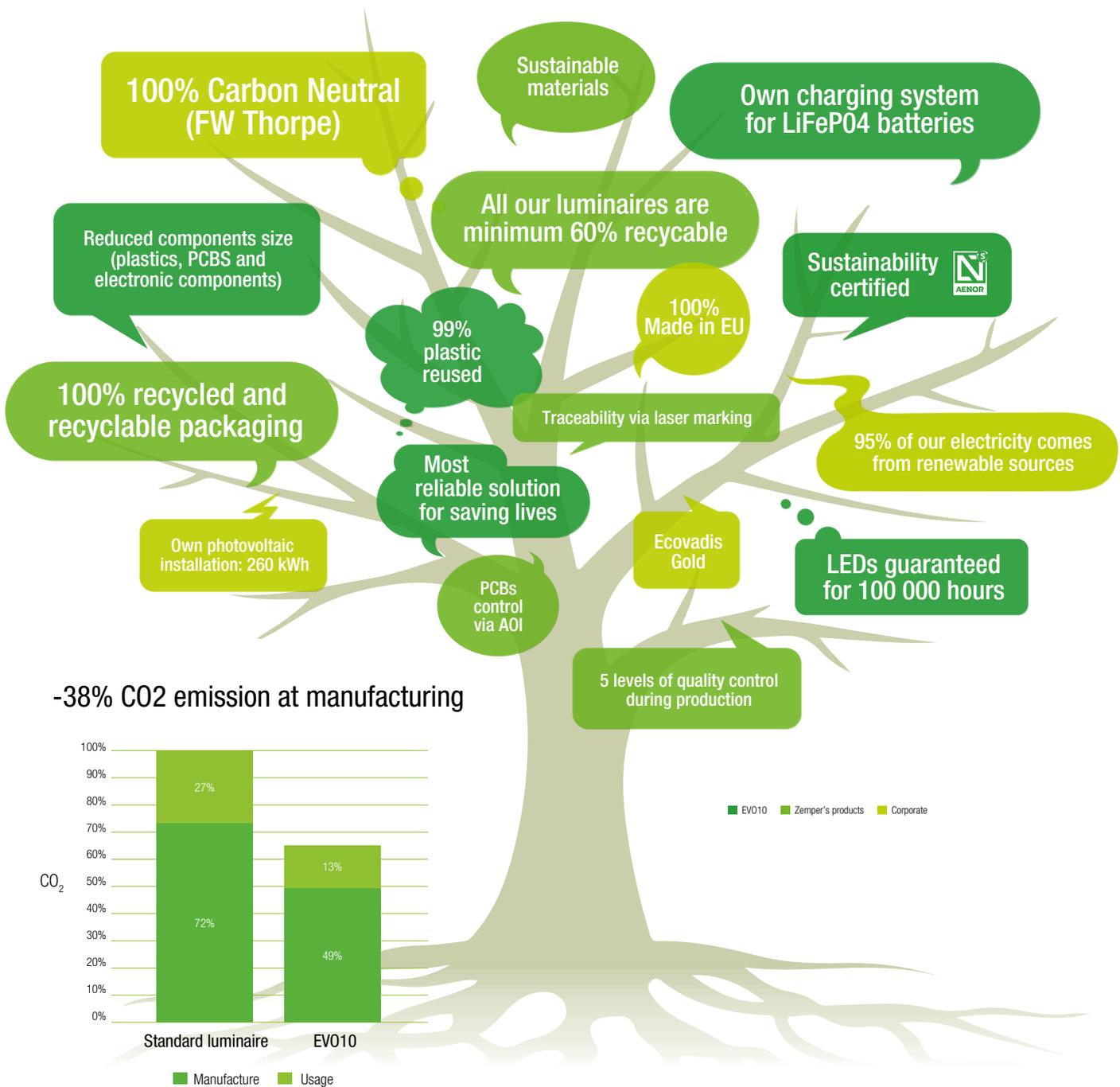


**Life cycle design**. Our designers not only design “green” products that are environmentally friendly when they are in use, but also throughout the entire life cycle of the luminaire.





# The Zemper Way to a Better World



## -38% CO<sub>2</sub> emission at manufacturing



# Largest Battery Study in the World

In collaboration with experts from the IMDEA Institute, Zemper has conducted **the largest-ever study of LiFePO<sub>4</sub> batteries in an emergency lighting application**, including ideal operating temperatures.

Years of analysis and research have gone into designing long-lasting luminaires.

The development of microprocessor-controlled hardware and software to manage the load of LiFePO<sub>4</sub> batteries has **optimized battery lifetime**.



# Largest Battery Study in the World



**Advanced technology** – increased/decreased temperature performance range, density/capacity of charge, lightweight etc.

**Enhanced storage longevity** (correct ambient temperature).

**Reduced cell size** + lighter weight = smaller product design.

**Cost-effective** - competitive pricing compared to NiMH & NiCd battery versions.

Reliable operation with **three safety layers of monitoring**: temperature, charge and discharge performance.

**Increase warranty** due to the **longer lifespan** technology.

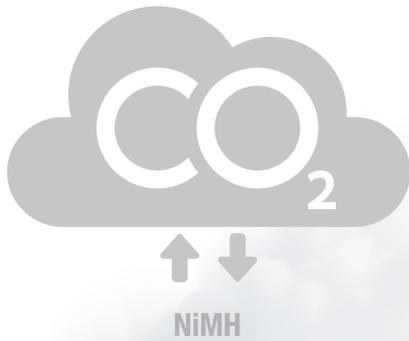
Lithium displays **higher sustainable properties** over NiMH & NiCd = lower embedded carbon values.

The **marketing leading technology** for the emergency lighting category.

# Environmental Benefits

CO<sub>2</sub>

## 1. Carbon Reduction



'4.6kg CO<sub>2</sub> reduction during a 10 year lifetime'

## 2. Embedded Carbon



NiMH



LiFePO<sub>4</sub>

**4.5x**  
Reduction

**Current study results:**

Per ton of NiMh production = 28,380 kg CO<sub>2</sub>e

Per ton of Li Ion Production = 6,308 kg CO<sub>2</sub>e

# Environmental Benefits

## 3. Power Consumption

### NiCd

Trickle charge - 20,174 watt hours per annum

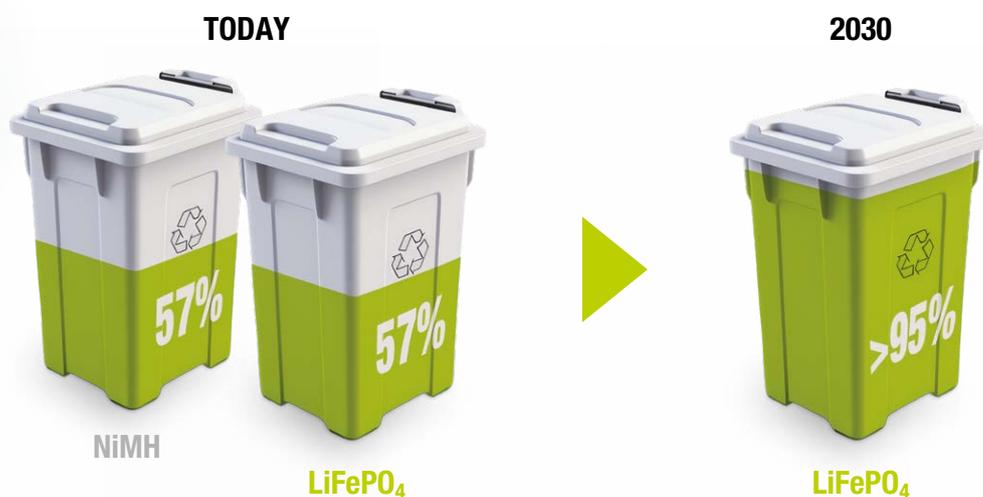
### NiMH

Pulse charge – 14,920 watt hours per annum (26% reduction)

### LiFePO<sub>4</sub>

Cut off charge – 12,655 watt hours per annum (15% reduction))

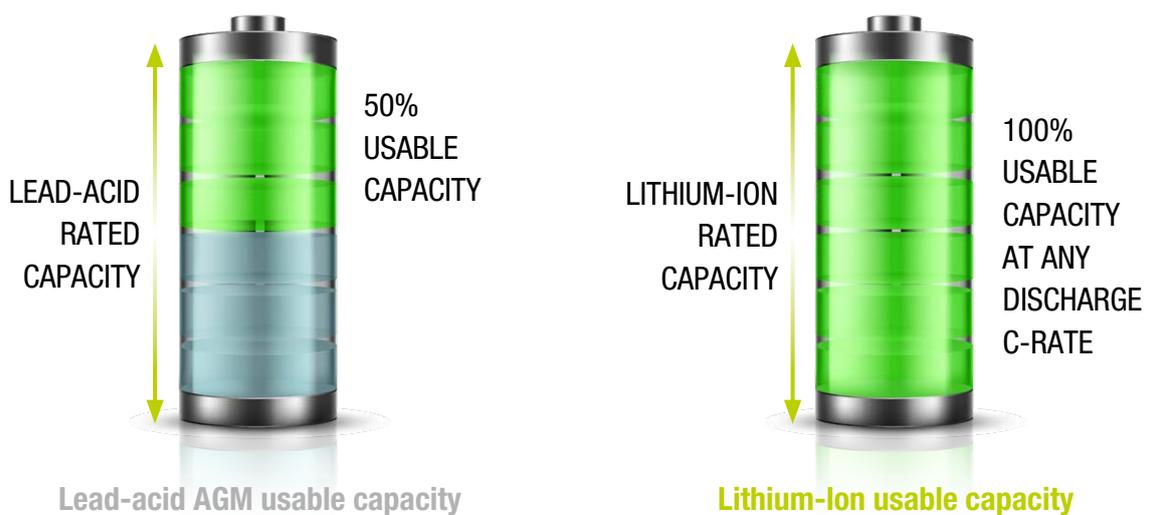
## 4. End of Life



# Higher “usable” capacity

Unlike other batteries, it is considered appropriate to regularly use **90% of the nominal capacity** of a lithium battery bank and even more on an occasional basis.

Considering a 100 Ah battery: if it were lead acid, it would be prudent to use a maximum of between 30 and 50 Ah of current, but with a lithium battery 90 Ah or even 100 Ah (100% DoD) could be used.

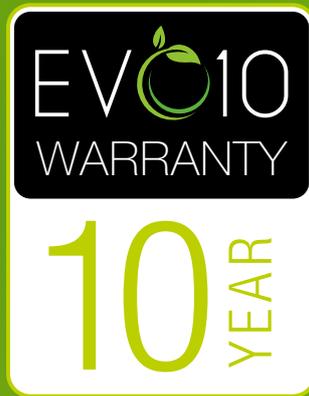


For all these reasons, the way we design,  
the way we produce, the components we use, the tests we make:  
**we can ensure EVO-10 will last 10 years.**



The Zemper EVO-10 product warranty offered to customers  
covers a period of 10 years.  
Please consult our General Conditions of Guarantee.





RANGE



# EVO10

## RANGE

Smart 



Emergency	Dur.	Battery	Lens	Part number	
	280 lm	1	6.4V-1.5Ah LFP	Corridor	LSLX3251LA
	300 lm	1	6.4V-1.5Ah LFP	Narrow	LSLX3304LA
	320 lm	1	6.4V-1.5Ah LFP	Area	LSLX3300LA
	380 lm	1	6.4V-1.5Ah LFP	Corridor+	LSLX3402LA
	400 lm	1	6.4V-1.5Ah LFP	Corner	LSLX3403LA
	420 lm	1	6.4V-1.5Ah LFP	Area	LSLX3400LA
	420 lm	1	6.4V-1.5Ah LFP	Narrow	LSLX3404LA
	285 lm	3	6.4V-3.0Ah LFP	Corridor	LSLX3251LA3
	300 lm	3	6.4V-3.0Ah LFP	Narrow	LSLX3304LA3
	320 lm	3	6.4V-3.0Ah LFP	Area	LSLX3300LA3
	380 lm	3	6.4V-4.0Ah LFP	Corridor+	LSLX3402LA3
	400 lm	3	6.4V-4.0Ah LFP	Corner	LSLX3403LA3
	420 lm	3	6.4V-4.0Ah LFP	Area	LSLX3400LA3
	420 lm	3	6.4V-4.0Ah LFP	Narrow	LSLX3404LA3

## SPACE

Wireless  
SmartZ<sup>®</sup>

	280 lm	1	6.4V-1.5Ah LFP	Corridor	LSLX3251LW
	300 lm	1	6.4V-1.5Ah LFP	Narrow	LSLX3304LW
	320 lm	1	6.4V-1.5Ah LFP	Area	LSLX3300LW
	380 lm	1	6.4V-1.5Ah LFP	Corridor+	LSLX3402LW
	400 lm	1	6.4V-1.5Ah LFP	Corner	LSLX3403LW
	420 lm	1	6.4V-1.5Ah LFP	Area	LSLX3400LW
	420 lm	1	6.4V-1.5Ah LFP	Narrow	LSLX3404LW
	285 lm	3	6.4V-3.0Ah LFP	Corridor	LSLX3251LW3
	300 lm	3	6.4V-3.0Ah LFP	Narrow	LSLX3304LW3
	320 lm	3	6.4V-3.0Ah LFP	Area	LSLX3300LW3
	380 lm	3	6.4V-4.0Ah LFP	Corridor+	LSLX3402LW3
	400 lm	3	6.4V-4.0Ah LFP	Corner	LSLX3403LW3
	420 lm	3	6.4V-4.0Ah LFP	Area	LSLX3400LW3
	420 lm	3	6.4V-4.0Ah LFP	Narrow	LSLX3404LW3

Non Maintained



**SPAZIO LUZ 10**

	Emergency	Dur.	Battery	Part number
	400 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LUZX4400LA
	120 lm	3 h	3.2V 1.8A/h LiFePo <sub>4</sub>	LUZX4150LA3
Wireless SmartZ®	400 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LUZX4400LW
	120 lm	3 h	3.2V 1.8A/h LiFePo <sub>4</sub>	LUZX4150LW3

For black version, add "N" at the end of the part number.  
Luminous flux decreases by 12% in black colour version.

Non Maintained



**SPAZIO ON 10**

	Emergency	Dur.	Battery	Part number
	250 lm	1 h	3.2V 1.5Ah LiFePo <sub>4</sub>	LSMX3250LA
	250 lm	1 h	3.2V 1.5Ah LiFePo <sub>4</sub>	LSMX3251LA
	250 lm	1 h	3.2V 1.5Ah LiFePo <sub>4</sub>	LSMX3252LA
	95 lm	3 h	3.2V 1.5Ah LiFePo <sub>4</sub>	LSMX3100LA3
	95 lm	3 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LSMX3101LA3
	95 lm	3 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LSMX3102LA3
Wireless SmartZ®	250 lm	1 h	3.2V 1.5Ah LiFePo <sub>4</sub>	LSMX3250LW
	250 lm	1 h	3.2V 1.5Ah LiFePo <sub>4</sub>	LSMX3251LW
	250 lm	1 h	3.2V 1.5Ah LiFePo <sub>4</sub>	LSMX3252LW
	95 lm	3 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LSMX3100LW3
	95 lm	3 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LSMX3101LW3
	95 lm	3 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LSMX3102LW3

For black version, add "N" at the end of the part number.  
Luminous flux decreases by 6% in black colour version.

Non Maintained



**ALYA MAXI 10**

	Emergency	Dur.	Battery	Part number
	390 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYAX5400LA
	175 lm	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYAX5170LA3
Wireless SmartZ®	390 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYAX5400LW
	175 lm	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYAX5170LW3

For black version, add "N" at the end of the part number.  
Luminous flux decreases by 18% in black colour version.

Non Maintained



**WALYA MAXI 10**

	Emergency	Dur.	Battery	Part number
	285 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYWX5300LA
	95 lm	3 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYWX5100LA3
Wireless SmartZ®	285 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYWX5300LW
	95 lm	3 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYWX5100LW3

For black version, add "N" at the end of the part number.  
Luminous flux decreases by 18% in black colour version.

Non Maintained



**EXITALYA MAXI 10**  
SURFACE

	Emergency	Dur.	Battery	Part number
	--	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYEX5070LAP
	--	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYEX5070LAP3
Wireless SmartZ®	--	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYEX5070LWP
	--	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYEX5070LWP3

For version in black colour, add an 'N' at the end of the part number.  
Maintained



**EXITALYA MAXI 10**  
SURFACE DOWNLIGHT

	Emergency	Dur.	Battery	Part number
	45 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYEX5120LAP
	65 lm	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYEX5120LAP3
Wireless SmartZ®	45 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYEX5120LWP
	65 lm	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYEX5120LWP3

For black version, add "N" at the end of the part number.  
Luminous flux decreases by 18% in black colour version.

Non Maintained



**EXITALYA MAXI 10**  
RECESSED

	Emergency	Dur.	Battery	Part number
	--	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYRX5070LAP
	--	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYRX5070LAP3
Wireless SmartZ®	--	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYRX5070LWP
	--	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYRX5070LWP3

For black version, add "N" at the end of the part number.

Maintained



**EXITALYA MAXI 10**  
RED

	Emergency	Dur.	Battery	Part number
	45 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYEX5125LAP
	65 lm	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYEX5125LAP3
Wireless SmartZ®	45 lm	1 h	3.2V 1.5A/h LiFePo <sub>4</sub>	LYEX5125LWP
	65 lm	3 h	3.2V 3.0A/h LiFePo <sub>4</sub>	LYEX5125LWP3

For black version, add "N" at the end of the part number.  
Luminous flux decreases by 18% in black colour version.

Non Maintained



DIANA 10

	Emergency	Dur.	Battery	Part number
	400 lm	1 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LDFX9400LA
	700 lm	1 h	6.4V 1.5Ah LiFePo <sub>4</sub>	LDFX9700LA
	240 lm	3 h	3.2V 3.0Ah LiFePo <sub>4</sub>	LDFX9230LA3
Wireless SmartZ <sup>®</sup>	400 lm	1 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LDFX9400LW
	700 lm	1 h	6.4V 1.5Ah LiFePo <sub>4</sub>	LDFX9700LW
	240 lm	3 h	3.2V 3.0Ah LiFePo <sub>4</sub>	LDFX9230LW3

For black version, add "N" at the end of the part number.  
Luminous flux decreases by 18% in black colour version.

Non Maintained



DIANA IP66 10

	Emergency	Dur.	Battery	Part number
	400 lm	1 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LXEX9400LA
	720 lm	1 h	6.4V 1.5Ah LiFePo <sub>4</sub>	LXEX9700LA
	250 lm	3 h	3.2V 3.0Ah LiFePo <sub>4</sub>	LXEX9230LA3
Wireless SmartZ <sup>®</sup>	400 lm	1 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LXEX9400LW
	720 lm	1 h	6.4V 1.5Ah LiFePo <sub>4</sub>	LXEX9700LW
	250 lm	3 h	3.2V 3.0Ah LiFePo <sub>4</sub>	LXEX9230LW3

Non Maintained



ARIAN 10

	Emergency	Dur.	Battery	Part number
	450 lm	1 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LAEX9500LA
	1 000 lm	1 h	6.4V 3.0Ah LiFePo <sub>4</sub>	LAEX9990LA
	230 lm	3 h	3.2V 3.0Ah LiFePo <sub>4</sub>	LAEX9230LA3
Wireless SmartZ <sup>®</sup>	450 lm	1 h	3.2V 1.8Ah LiFePo <sub>4</sub>	LAEX9500LW
	1 000 lm	1 h	6.4V 3.0Ah LiFePo <sub>4</sub>	LAEX9990LW
	230 lm	3 h	3.2V 3.0Ah LiFePo <sub>4</sub>	LAEX9230LW3

Non Maintained

# Our Sustainability Certificates

A leading company in sustainability and environmental commitment



The world's most trusted provider of business sustainability ratings.



### EN 60598-2-22

Certification issued by an independent body, that it is a tool for recognising the ecological quality of a product.



All Zemper products have been designed and manufactured in Spain.



Zemper Sustainability

# Our Sustainability Certificates

A leading company in sustainability and environmental commitment



## EN 60598-2-22 + Sustainable Aenor Protocol

Certifies that in addition to complying with the requirements of the brand N (which is equal to ENEC) meets the strictest requirements of sustainability during its manufacture.



## IQNet SR10

Gathers the best international practices and recommendations regarding social responsibility.



## GHG Protocol

The total company amount of greenhouse gas emissions (GHG) that are generated from the manufacturing to the sale of the products.



## ISO 14001

Assures that Zemper measures and reduces its environmental impacts and complies with environmental legislation.



## ISO 9001

Ensure that Zemper's customers get consistently good quality products and services.



## ISO 45001

Specifies requirements for an occupational health and safety (OH&S) management system.

AENOR: Reference certification body for systems and products in Spain.

# Terms and conditions

This document describes the terms and conditions of the warranty offered by Electrozemper, S.A. and applies only to the Zemper brand luminaires listed below. This warranty policy is subject to the stipulations set out in this document which are the warranty conditions.

The luminaires covered by this warranty are for DALI2 and SmartZ® systems of the following families:

- SPACE 10
- ALYA MAXI 10
- WALYA MAXI 10
- EXITALYA MAXI 10
- SPAZIO LUZ 10
- SPAZIO ON 10
- DIANA 10
- DIANA IP66 10
- ARIAN 10

## Warranty period

Subject to the stipulations set out in the Terms and Conditions of the warranty policy and established hereunder, the purchaser receives warranty for the relevant period of 10 years. The warranty period begins on the date of invoice issue by Electrozemper, S.A. The warranty period is not extended by the performance of any maintenance work carried out by the purchaser on the products.

## Conditions of the Warranty

Electrozemper, S.A. will repair or replace free of charge those luminaires or components, which Zemper, after verification, has been able to confirm have failed due to a defect in materials, manufacturing or design, provided that the exercise of the warranty claim occurs within the warranty period.

This warranty is limited to the replacement of complete luminaires or components, and in no case covers expenses such as the following list but not limited to: labour for dismantling and installation, access to the luminaires (lifts, scaffolding...), transport to the installation and special damages, direct or indirect accessories (such as damage to property, loss of income/profits or other costs not mentioned above). The change of colour of the LED modules is excluded from the warranty.

This warranty applies only to the customer indicated on the invoice issued by Electrozemper, S.A., and never to third parties.

## Technical Conditions of the Warranty

The installation and maintenance of the products must be carried out by specialised and qualified technical personnel.

Products shall be installed in accordance with the manufacturer's instructions and recommendations accompanying the products.

The products must be operated within the electrical ratings, operating intervals and environmental conditions provided for in the manufacturer's official documents such as: instructions, recommendations, catalogue, data sheets, and/or any other documents supplied with the products.

Luminaires should be installed indoors, the temperature range should be between 0°C and 40°C and the annual average ambient temperature should be between 20°C and 25°C.

## **Exclusions and Limitations of Warranty**

Electrozemper, S.A., is not responsible for power supply and electrical installation conditions, including voltage spikes, voltage fluctuations, current ripple control systems exceeding the specified limits of the products and those defined in the relevant supply and installation standards.

This warranty does not apply to damage or malfunctions caused by force majeure or any type of incorrect or improper use or use in violation of the standards, codes and usages detailed in the product instructions.

This warranty does not cover:

- Exposure to corrosive environments or aggressive gases of chemical origin.
- Relative humidity in the premises above 80%, or exceed the IP rating of the product identified on its label.
- Contingencies of force majeure, such as fire, flood, acts of violence or vandalism or similar situations.
- The luminaire, labelling or component has modifications, breakage or markings, and / or its batch number is damaged, changed or obliterated.
- Damage caused by cleaning the luminaire with abrasives, water and other improper cleaning agents.
- Faults and defects caused by fluctuations in the power supply.
- Failures attributable to the customer or any third party due to tampering or misuse
- A use of the product other than that for which it was designed or intended.
- Malfunctioning of the product due to exceeding 6 months of storage without a full recharge of the product's batteries before this period, regardless of the type of batteries installed in the product.

For any clarification on the content of this warranty policy, please contact our Quality Department by sending an e-mail to the following address: [quality@zemper.com](mailto:quality@zemper.com)





Entirely designed and  
manufactured in **Spain**



## The Zemper Way to a Better World

We use recycled paper in the production of our catalogues, thus contributing to the conservation of forests and biodiversity. This paper requires up to 50% less energy and 90% less water, which significantly reduces environmental impact, reduces carbon dioxide emissions and promotes the circular economy. The ink we use is free of mineral oils, cobalt salts and VOCs (volatile organic compounds) so we contribute to limiting the environmental impact. We make more sustainable decisions and help protect our planet.

CEV-EN00-1124-04

# ZEMPER

THE EMERGENCY LIGHTING SPECIALIST

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