

Light + Building 2018 Press kit



The newborn Cariboni Group already has over 100 years of history

On March 1, 2018, [Cariboni Group](#) was born, a group that combines the **experience** and **expertise** of two **Made in Italy** brands active on the market: **Cariboni Lite specialized in architectural lighting** and **Fivep SpA dedicated to urban street lighting**. Cariboni Group is positioned on the market as one of the leading groups in the **Italian realization** and **production of outdoor lighting fixtures with high-tech LED sources**. The group also includes branches in the world such as Cariboni Lite France and T.I.L.C. Tunisian Italian Lighting Company Sarl.

Active in the electrotechnical sector since 1908, over the years Cariboni has developed expertise in the management of lighting fixtures for outdoor use, constantly investing in **research and technological innovation** to become, in the early 2000s, one of the first companies in the sector to understand the advantages of LED lighting; the technology that in the following years will revolutionize the light.

The group's fundamental values are three: the culture of light, social and environmental responsibility, and the promotion and safeguarding of Italian know-how.

"Spreading and expressing the culture of light, offering light experiences to people, furnishing the cities by day and enhancing them during the night" - is the mission of Cariboni Group, which manifests itself through the creation of **high-tech products**, specific for each place, whether they are small villages or large cities.

From zero to 30 meters, each lighting solution is designed for a specific context of use: cycle and pedestrian paths, vehicular routes, squares, green areas and architectures; spaces for work and leisure, for culture and well-being, for sports and mobility.

Enhancing places without invading the space, making them livable and peaceful thanks to high performance solutions that offer **visual well-being and safety**, is the result of **the diffusion of the culture of light** for Cariboni Group. **Social and environmental sustainability** are a natural consequence. All the design and production choices of Cariboni Group aim to **respect the environment, reduce energy consumption, limiting light pollution and ensuring reliability over time.**

The value of **design, research and development** of products with a **high technological content**, the care in the choice of materials; **everything aims at the excellence of Made in Italy.** **The entire development process**, from optics to the choice of materials, from laboratory tests to automated production, **takes place in Italy to offer high levels of quality and performance.**

The constant dialogue with the professionals who **shape the urban landscape** with the light to which it offers **support, advice and customized solutions** is fundamental for Cariboni Group.

Our novelties



KOSMOS

KOSMOS offers solutions with LED technology for lighting façades, streets, walkways and urban spaces. The innovative optical systems designed for the KOSMOS line guarantee visual comfort, safety and enhanced quality of space. The KOSMOS system includes different installation methods and a tilting system for meeting the specific functional and architectural requirements of any environment. Colour: Sablé 100 Noir. Rotosymmetrical, symmetrical, asymmetrical

and street optics are available, as well as solutions for pedestrian crossings and wet road surfaces. The high efficiency of the light sources used and the various smart lighting systems ensure that only the required areas are lit, thereby reducing waste and consumption. Colour temperature: 3000K and 4000K (2200K on request). CRI (Colour Rendering Index): Ra ≥ 70 (Ra=80 on request). Average LED lifetime $>160,000\text{h}$ @700mA @Ta25°C TM21 L80B20 L80B10. KOSMOS is a guarantee of reliability and quality that fully complies with all the values of “Made in Italy” design and production. Classification: CUT OFF.

Product specifications

Nominal voltage 220-240V 50/60Hz

Electrical insulation class CL II (CL I on request)

Insulation protection degree IP66

Protection against impact IK09

Power factor >0.90

Common mode overvoltage protection 10kV

Differential mode overvoltage protection 10kV

Ambient temperature -30°C $+50^{\circ}\text{C}$

Colour Sablé 100 Noir

Electronic power supply Included

Smart Lighting Virtual Midnight, CLO, DALI, Main voltage variation; Wireless, PLC, 1-10V, Pilot line, Motion detectors/brightness on request



ORAO

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ORAO offers solutions with LED technology for lighting streets, paths and urban spaces. The innovative optical systems designed for the ORAO line guarantee visual comfort, safety and enhanced quality of space. Colour: Sablé 100 Noir. Rotosymmetrical, symmetrical, asymmetrical and street optics are available, as well as solutions for wet road surfaces. The ORAO system includes different installation methods for meeting the specific functional and architectural requirements of any environment. The high efficiency of the lamps used and the various smart lighting systems ensure that only the required areas are lit, thereby reducing waste and consumption. Colour temperature: 3000K and 4000K. CRI (Colour Rendering Index): $Ra \geq 70$ ($Ra=80$ on request). Average LED lifetime $>160,000h @700mA @Ta25^{\circ}C$ TM21 L80B20 L80B10. ORAO is a guarantee of reliability and quality that fully complies with all the values of "Made in Italy" design and production. Classification: CUT OFF.

Product specifications

Nominal voltage 220-240V 50/60Hz

Electrical insulation class CL II (CL I on request)

Insulation protection degree IP66

Protection against impact IK09

Power factor >0.90

Common mode overvoltage protection 10kV

Differential mode overvoltage protection 10kV

Ambient temperature $-30^{\circ}C +50^{\circ}C$

Colour Sablé 100 Noir

Electronic power supply Included

Smart Lighting Virtual Midnight, CLO, DALI, Main voltage variation; Wireless, PLC, 1-10V, Pilot line, Motion detectors/brightness on request



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LIT

LIT offers solutions with LED technology for lighting façades, streets, walkways and urban spaces. The various modes of installation and the orientability of the product respond to specific functional and architectural requirements of each urban context. The possibility to combine each photometric distribution with various mounting accessories allows designers to illuminate differing urban spaces with original system configurations. The products from the LIT line can be installed without the need to open the units. The product is, in fact, supplied pre-wired, permitting simple, rapid and safe installation. Colour: Sablé 100 Noir. Asymmetrical street optics are available. Colour temperature: 3000K and 4000K. CRI (Colour Rendering Index): $Ra \geq 80$. LIT is a guarantee of reliability and quality that fully complies with all the values of “Made in Italy” design and production. Classification: CUT OFF.

Product specifications

Nominal voltage 220-240V 50/60Hz

Electrical insulation class CL II (CL I on request)

Insulation protection degree IP65

Protection against impact IK08

Common mode overvoltage protection 10kV

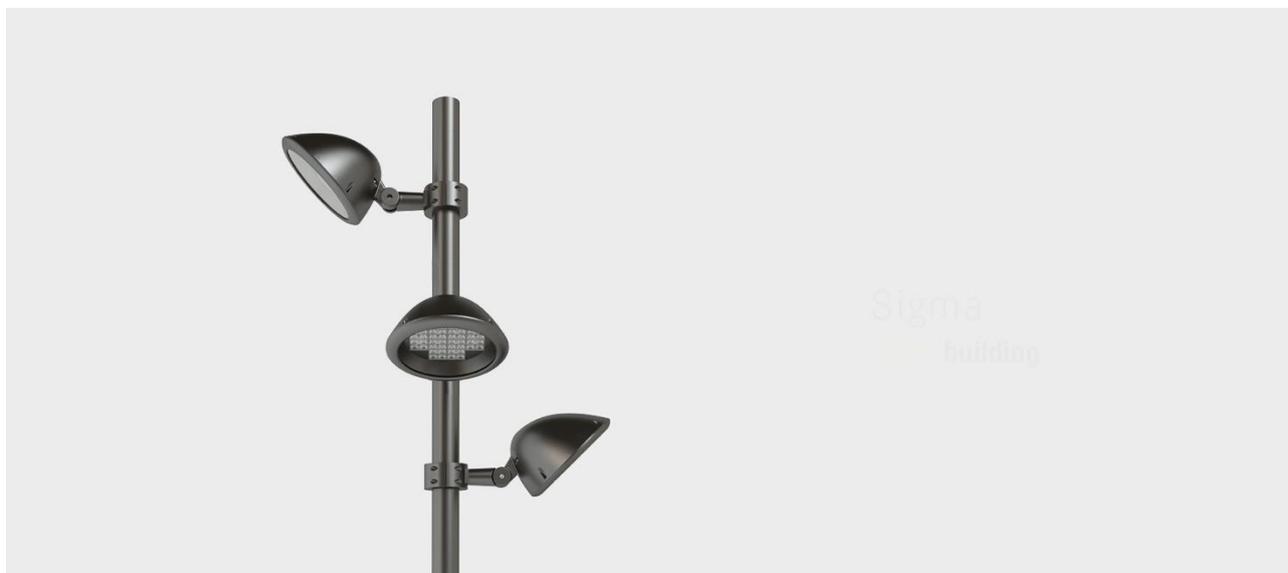
Differential mode overvoltage protection 10kV

Ambient temperature -30°C +50°C

Colour Sablé 100 Noir

Electronic power supply Pre-wired

Smart Lighting Virtual Midnight, CLO; Wireless, 1-10V, DALI on request



SIGMA

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The products in the SIGMA line include floodlights and wall-washers which optimise visual comfort while maintaining high performance in terms of photometric distribution and illumination efficiency. The form of the SIGMA line has been created to allow the optical unit to be set back from the screen, resulting in a reduction of the visibility of the light emitting surfaces. The surface finish of the collector eliminates all undesired light reflection, guaranteeing visual comfort and optical control. SIGMA can be oriented with precision thanks to its fixing base which can be rotated $\pm 30^\circ$ and tilted $+90^\circ$ -35° . Continuously - adjustable pointing and locking system. Colour: Sablé 100 Noir. Optics: medium, wide, ultra-wide beam and wall washer. Colour temperature: 3000K and 4000K (2200K on request). CRI (Colour Rendering Index): $R_a \geq 80$. SIGMA is a guarantee of reliability and quality that fully complies with all the values of "Made in Italy" design and production.

Product specifications

Nominal voltage 220-240V 50/60Hz

Electrical insulation class CL II (CL I on request)

Insulation protection degree IP66

Protection against impact IK08

Ambient temperature -30°C $+50^\circ\text{C}$

Colour Sablé 100 Noir

Electronic power supply Included

Smart Lighting 1-10V and DALI on request



OMIKRON

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OMIKRON offers solutions with LED technology for lighting façades, walkways and urban spaces. The optical system consists of a lens and a “black pupil”. The PMMA catadioptric lens with double internal reflection (D-TIR) allows for precise control of the light beam and a slim design. Its particular shape allows for complete internal reflection without the need for metallization treatments. The pupil hides the light surface from the observer’s sight. During the night, when the light is on, the pupil avoids dazzling; during the day, when the light is off, the pupil screens the COB’s LES (Light-Emitting surface). Colour: Sablé 100 Noir. Optics: narrow, medium, wide and ultra-wide beam. Colour temperature: 3000K and 4000K. CRI (Colour Rendering Index): $Ra \geq 90$. OMIKRON is a guarantee of reliability and quality that fully complies with all the values of “Made in Italy” design and production.

Product specifications

Nominal voltage 220-240V 50/60Hz

Electrical insulation class CL I (CL II on request)

Insulation protection degree IP66

Protection against impact IK08

Ambient temperature -10°C +50°C

Colour Sablé 100 Noir

Electronic power supply Included

Smart Lighting ON-OFF; DALI on request



GRACE

GRACE is a compact and elegant drive-over grazer available in two sizes and with two widths of light beam: 360° and 180°. The simplicity of the design is guaranteed in both versions, which have the same shape, while varying the emissions of light, offering a coherence in form for designers wishing to install differing forms of light distribution in the same area.

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As it is completely free of supports, the 360° version guarantees uninterrupted, shadow-free light emission. Uninterrupted radial emission is made possible by a TIR (Total Internal Reflection) lens made from Ultra-Clear LSR (Liquid Silicone Rubber). The use of this material allows for excellent performance in terms of lm/W, increased optical control for the reduction of vertical light emission, and an elevated life-span for the product. For the lens, LSR in 80 shore has been chosen, guaranteeing the highest levels of mechanical robustness and thermal resistance. Colour: Sandblasted stainless steel. Colour temperature: 3000K and 4000K. CRI (Colour Rendering Index): $R_a \geq 90$.

Product specifications

Nominal voltage 24Vdc

Electrical insulation class CL III

Insulation protection degree IP66

Protection against impact IK10

Ambient temperature -10°C +50°C

Colour Sandblasted stainless steel

Electronic power supply To be ordered separately

Smart Lighting DALI on request



CHARA

LED walk over line, designed for lighting architectures and gardens. CHARA can be fitted to ceilings, walls or the ground. It is designed with a reduced recess depth, allowing installation in all kinds of false ceiling, wall lining or raised flooring. On request, a two- or four-way electrical connection device is available, together with power drivers for one or more light points. Colour: Sandblasted stainless steel. Optics: narrow, medium, wide and ultra-wide beam. Colour temperature:

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3000K and 4000K. CRI (Colour Rendering Index): $Ra \geq 90$. CHARA is a guarantee of reliability and quality that fully complies with all the values of “Made in Italy” design and production.

Product specifications

Nominal voltage 24Vdc

Electrical insulation class CL III

Insulation protection degree IP67

Protection against impact IK09

Ambient temperature -30°C +50°C

Colour Sandblasted stainless steel

Electronic power supply To be ordered separately

Smart Lighting ON-OFF; DALI on request



KORE

LED drive over line, designed for lighting architectures and gardens. Kore is adapted for ground, floating floor and false ceiling. The optical system consists of a lens and a “black pupil”. The PMMA catadioptric lens with double internal reflection (D-TIR) allows for precise control of the light beam and a slim design. Its particular shape allows for complete internal reflection without the need for metallization treatments. The pupil hides the light surface from the observer’s sight. During the night, when the light is on, the pupil avoids dazzling; during the day, when the light is off, the pupil screens the COB’s LES (Light-Emitting surface). Colour: sandblasted stainless steel. Optics: narrow, medium, wide, ultra-wide beam and wall washer. Colour temperature: 3000K and 4000K. CRI (Colour Rendering Index): $Ra \geq 90$. KORE is a guarantee of reliability and quality that fully complies with all the values of “Made in Italy” design and production.

Product specifications

Nominal voltage 220-240V 50/60Hz

Electrical insulation class CL II (CL I on request; CL III with remote driver)

Insulation protection degree IP67

Protection against impact IK10

Ambient temperature -30°C +50°C

Colour Sandblasted stainless steel

Electronic power supply To be ordered separately

Smart Lighting ON-OFF; DALI on request