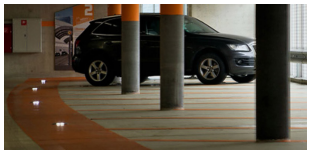
LED car park marking, where safety meets innovation



A look at the emergence of LED car park marking, an enlightening journey of using innovative lighting solutions to meet strict safety norms.

LED car park marking first appeared in the 1990s, thanks to the avant-garde vision of Lyon Parc Auto (LPA) and the flexibility of LEC's products. But the strict safety standards for car parks meant that the challenge was far from over.

The first LED car park marking: an innovate lighting solution

In the early 1990s, Lyon Parc Auto (LPA) wanted to reinvent safety lighting in Lyon's car parks. Cementing its position as a pioneer, it was granted permission by the Paris Fire Brigade to use LED technology. The Place des Terreaux car park was the first to benefit from the new floor marking, in the process becoming a model for France and the rest of the world.

Article EC9 of PS22 in French law, which rules on safety lighting in car parks, requires 45-lm luminaires less than 50cm above the ground to guide pedestrians to an exit in the event of smoke. LPA conceived an alternative LED solution to comply with this regulation. Their concept involved a directed beam using a 7-candela set-up with an approximately 15° degree.

With the poles removed, LPA decided to fit the luminaires to the floor, and asked LEC to create a marker able to withstand the weight of vehicles. Thus, the first LED car park marker 1843-Palais Royal was born. It was subsequently fixed to the floor along the car lanes.

LPA's Tony Garnier car park in Lyon, features LED floor marking since 1994.

LED car park floor marking: meeting both requirements and regulation

This type of LED car park floor marking complies with all the various requirements and regulations.

Safety

- On the ground, they provide clear directions and are always visible without being blocked by parked vehicles.
- Their long lifespan means they can be employed continuously and easily maintained.

Energy efficiency

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- LEDs use little energy (1.2 VA per marker), and thus cut consumption.
- They only require an easily-installed and small central power supply.

Sustainability

- They are completely dust-proof, waterproof, shock-proof and tamper-proof
- While they are not suitable for permanent traffic, they still offer strong resistance against moving vehicles.

Ergonomics

- The different LED colours offers the possibility for storey-specific lighting.
- They can be easily adjusted for specific needs e.g. to direct traffic or indicate an escape route.

3rd-generation LEC car park markers

3rd-generation LEC car park markers 1843-Palais Royal has evolved immensely since the early '90s. And nowadays, even more clients are choosing this innovative solution thanks to the latest 3rd-generation design, which:

- Complies with the most recent French and European standards: Articles ruling on safety lighting for car parks of establishments open to the general public (PS22 of ERP), EN 60598-2-13 standard on ground-recessed luminaires, and EN 60 598-2-22 standard for luminaires for emergency lighting.
- Uses new materials resistant to corrosive cleaning products.
- Features improved functionality, including low-level optics for better visibility from afar.

Our current range of floor safety markers includes two main models:

- Mounted 1844-Saint Raphael LED car park marker: installed in several car parks, including at Eurodisney car park in Marne-la-Vallée in France and at the Park&Ride Sécheron in Geneva.

EuroDisney car park, Marne-La-Vallée (France).

- Ground-recessed, 2858-Philae, LED car park marker: no overhang, for marking traffic lanes. Installed on the platforms at the Gare d'Austerlitz train station in Paris.

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Gare d'Austerlitz train station in Paris.

Want to know more? Check out all our solutions and LED safety marker-lights.