

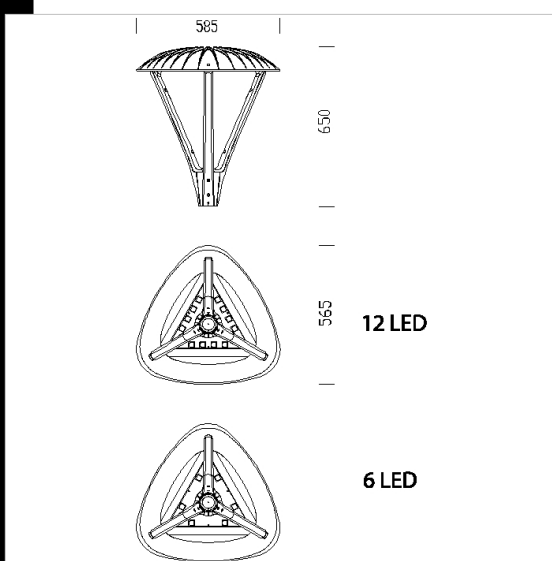


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## 3340 Loto 1 - clear wide beam

Loto is the new frontier of lighting design for the city, its citizens and spaces. Thanks to Loto innovation is combined with the most advanced technologies in terms of light quality and emission. The optimisation of energy consumptions is the result of the research in LED development, while a more interactive light control has the goal to improve performances in different applications based on the required lighting needs. An innovative product in quality and shape, with a design that breaks away from the most popular examples currently on the market and that blends perfectly into any urban scenario, whether historic or contemporary, as well as in green spaces and pedestrian or vehicle traffic areas. Its shape dialogues with technology and nature: it is designed to resemble a plant that sprouts from the ground. It creates a visual presence capable of conveying the impression of quality and light aimed at ensuring the wellbeing of users and enhancing the excellence of the surrounding urban spaces. The available versions include the pole-mounted type with wide beam optics, the asymmetric street type, the lighting fixture for bicycle lanes. Housing and frame: pressed in die-cast aluminium and designed with a very small surface exposed to wind. Cooling fins are integrated into the cover.

Optics: Optics made of PMMA with high temperature resistance and UV rays.  
Diffuser: extra-clear tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).  
Coating: the standard liquid immersion coating consists of a first metal surface pre-treatment stage, a successive epoxy cathaphoresis corrosion and salt resistant coating, and a final layer of bi-component acrylic liquid UV-stabilised coating.

Equipment: Automatic temperature control device. In the event of an unexpected LED temperature rise caused by particular weather conditions or a LED failure, the system will reduce the luminous flux to lower the working temperature and guarantee proper operation. Safety diode to protect against voltage peaks.

Equipped with an air-circulation valve.  
Energy-saving: the possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions, and also help you deal with maintenance and retrofitting problems. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

LED: Latest generation LED technology, Ta-30 + 40°C. Photobiological safety class: exempt group EN62471.  
Heat sink: the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.

Photometric performance: designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance. This allows the application in street lighting schemes where there is a significant distance between the poles.

LED: Power factor >= 0.9.  
Luminous flux maintenance: 80%: >100.000h (L80B10)  
Surface exposed to wind: 1046 cm2.

Upon request:  
- Coating compliant with UNI EN ISO 9227 Corrosion tests in artificial atmospheres for aggressive environments.  
Advanced Prog (PROG CLD wiring): luminaires made to meet specific technological needs and designed, as standard, to integrate special functions to ensure high energy-savings, customization options and versatility of use in many applications (e.g. installation with dimmers or emergency supply). These functions are already available on standard products and must be enabled on request. These products do not require any modification to the entire system because the lamp only needs to be connected to mains power supply (no pilot cable and/or control bus required).

operating mode  
Luminous flux setup: This can be done by programming the drive current values requested when ordering/purchasing the fixture.

Virtual Midnight, order with subcode -30: Stand-alone system with automatic luminous flux reduction in 4 steps (up to max 8 steps available upon request).

Broadcast Prog: This allows the reconfiguration of the Virtual Midnight profile, including the enabling/disabling of all the fixtures installed on the same power line (broadcast function) via a sequence of electrical impulses.

Mains voltage regulation: This allows varying the luminous flux by adjusting the mains voltage between 170 and 250 V AC.

CLO (Constant Light Output): The lighting fixture maintains a constant light output throughout its entire service life.  
DC power in EM: In centralized emergency systems, the LED Driver automatically detects when the power changes from AC to DC and adjusts the lights to a pre-set value (DC level).

Monitoring (default): The driver is equipped with a micro-processor that records the operating conditions from the moment it is switched on.

Setup via APP: The NFC technology allows users to set the different operating modes via an APP.

Code	Gear	Kg	Lumen Output-K-CRI	WTot	Colour	Surge
330210-00	CLD	10.36	LED-3765lm-530mA-4000K-CRI 80	32 W	GREY9007	6/10kV
330211-00	CLD	10.42	LED-3765lm-530mA-4000K-CRI 80	32 W	GRAPHITE	6/10kV
330212-00	CLD	10.38	LED-7004lm-530mA-4000K-CRI 80	64 W	GREY9007	6/10kV
330213-00	CLD	10.60	LED-7004lm-530mA-4000K-CRI 80	64 W	GRAPHITE	6/10kV
330210-39	CLD	10.22	LED-3501lm-530mA-3000K-CRI 80	32 W	GREY9007	6/10kV
330211-39	CLD	9.70	LED-3501lm-530mA-3000K-CRI 80	32 W	GRAPHITE	6/10kV
330212-39	CLD	9.76	LED-7531lm-530mA-3000K-CRI 80	64 W	GREY9007	6/10kV
330213-39	CLD	9.76	LED-7531lm-530mA-3000K-CRI 80	64 W	GRAPHITE	6/10kV

#### Posts



- 1481 tapered steel lighting pole to be buried



- 1480 tapered steel lighting pole with base



- 1477 Urban mast with base



- 1478 Urban to be sunk into the ground

The reported luminous flux is the flux emitted by the light source with a tolerance of  $\pm 10\%$  compared to the indicated value. The W tot column indicates the total wattage absorbed by the system without exceeding 10% of the indicated