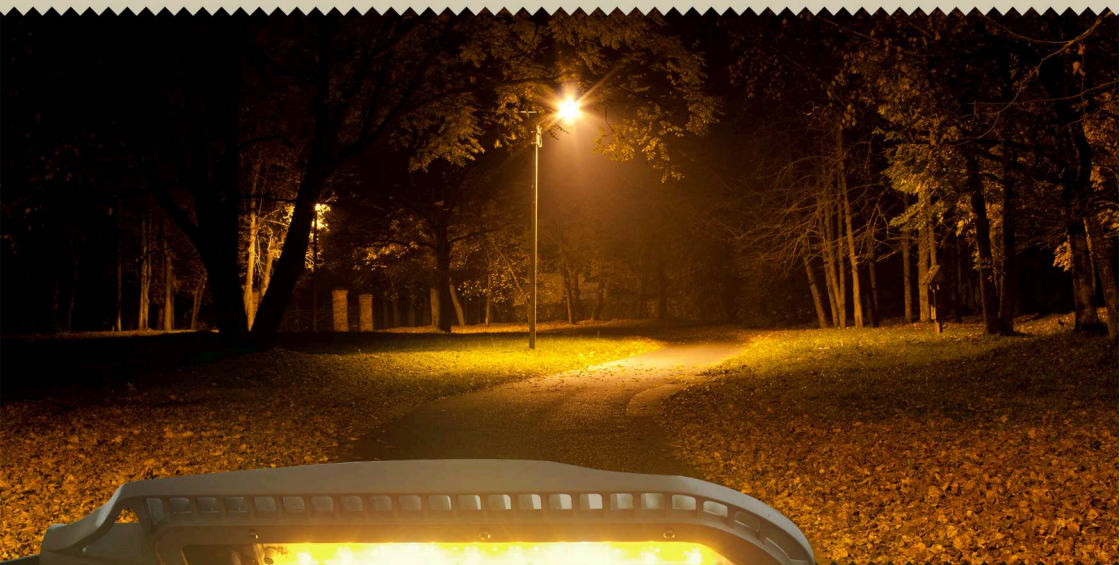




LEDIGMA

Let's colour the life!



FIRELIGHT 45G

The colour and atmosphere of High-Pressure Sodium Lamp seems to be appropriate for you but everybody tries to convince you to replace HPS with LED outdoor luminaires?

Right what you need is a solid-state substitute of HPS lamp, an LED based outdoor luminaire FIRELIGHT 45G with pleasant ultra-low colour temperature, increased efficacy, improved colour rendering, and smart control ability. Also, the blue component is drained from the spectrum of FIRELIGHT 45G, which is optimized for the lowest possible circadian efficacy in order to prevent health hazards due to the suppression of melatonin production in the human organism.

The electrical power of this luminaire is up to 45W, it can be equipped with a programmable control (dimming) module and can replace 70W HPS luminaires. The FIRELIGHT 45G is optimized for M5 and M6 class streets typical of residential areas, pedestrian areas and pathways, bicycle roads, park roads, old town environments, etc. The FIRELIGHT 45G can be implemented without a noticeable violation of the illuminated environment designed for HPS lamps but with improved user characteristics and aesthetic appearance.

Voltage
36 V (DC) or 220 V (AC)

Electrical power
45 W

Light distribution
Optimized shape

Luminous flux
2900 lm

IP class
IP64

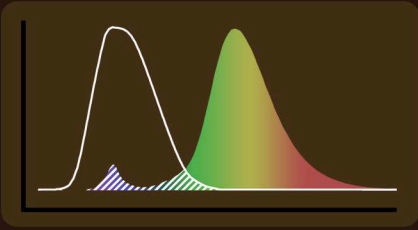
Weight
5 kg

Body colour
Gray

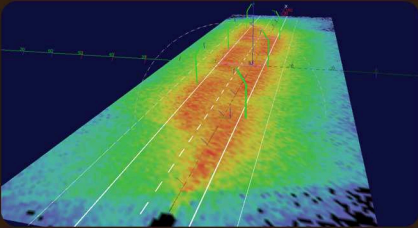
Colour temperature
2000 K

Lifetime
50000 h.

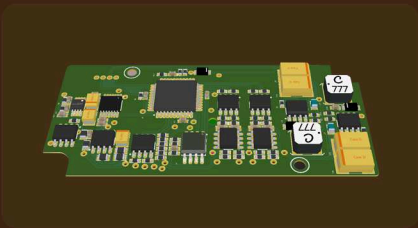
Warranty
3 years



The blue spectral component of light is not intrinsic for our planet at night time. Even a low level of blue-rich illumination experienced in the evening and in the first half of the night causes the suppression of melatonin production in human body, and disrupts circadian rhythms, and reduces antioxidant capacity, which is a protective factor against health hazards. . Therefore the FIRELIGHT 45G is optimized for the lowest possible circadian efficacy and nocturnal blue light pollution, which is harmful to almost all living organisms.



The FIRELIGHT 45G is optimized as a substitute of 70W of High-Pressure sodium lamps in low traffic residential area streets (class ME5, ME6), pedestrian areas and pathways, bicycle roads, park areas, and old-town environments. The FIRELIGHT 45G offers a better uniformity of illumination, lower light pollution, efficient intensity control, improved colour rendering and aesthetic impression, high robustness and energy saving in comparison to 70W HPS lamps.



The FIRELIGHT 45G can be equipped with a programmable control module with an integrated GPS sensor for the synchronization of the time and date. This control module can be programmed through USB by user-friendly interface software (included for free) and has 4 independent inputs for any type of sensors (presence, traffic, illumination, or even climate conditions). The GPS sensor ensures the internal clock to be always accurate and allows for the installation of the system on the mains with complete switch-off during the day time or on solar powered networks.

Partners



Vilnius University



Research Council
of Lithuania



Agency for Science, Innovation
and Technology



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Keramiku str. 1-4,
10233 Vilnius,
Lithuania

Tel: +370 600 34126
E-mail: info@ledigma.lt
www.ledigma.eu