



Specialized
LED Lighting
Animal Center

2017

We have been producing safelights, based on LED technology for 7 years. We obtained a high rate of long-term reliability of our devices. We constantly improve our products, using state-of-the-art technologies.



The main group of our clients is NDT non-destructive testing laboratories and darkroom radiographic testing laboratories in medical and veterinary institutions and scientific laboratories in which safe lighting conditions must be ensured for very sensitive materials developed there.



We have also developed a specialist lamp designed to illuminate the animal house rooms. It emits invisible to animals raised in laboratories, such as rodents, a deep-red light, with a wavelength of 660 nm, while providing excellent perception conditions for service staff.

The lamp has a potentiometer on the surface of the reflector, used to set the appropriate intensity of the room lighting, depending on its size. We used the method of smooth light control through PWM with a high frequency of work to ensure high comfort and safety.

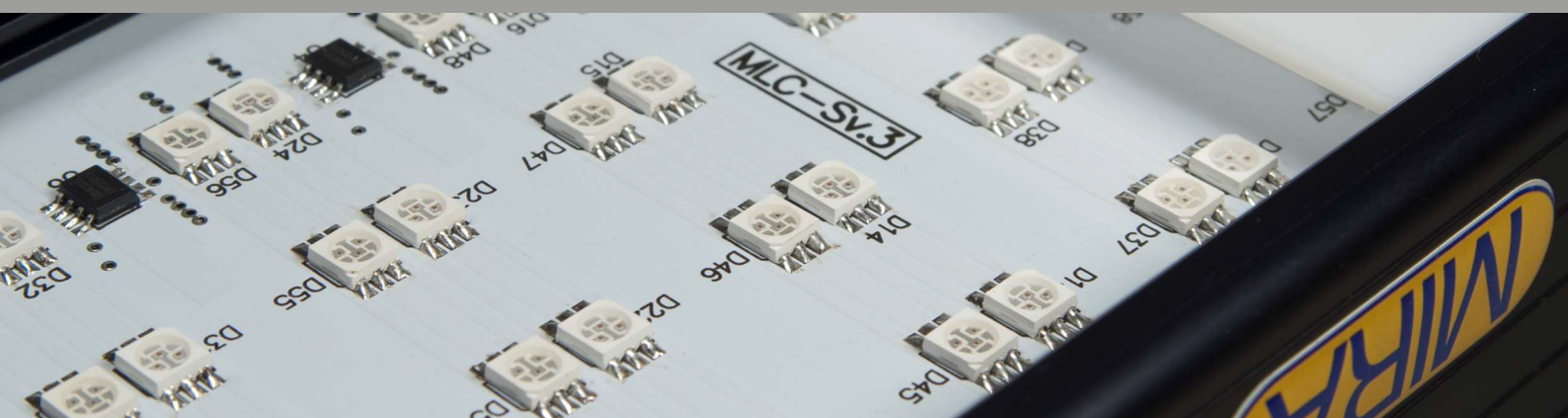


Safelights produced in our company have their own supply system with a microprocessor controller, enabling precise light regulation. Light is modulated through change in amount of pulses shining for a very short period of time, with constant width, with changing break of lighting in a unit of time.

Innovative method applied by us guarantees great sight for an operator in the conditions of darkroom lighting and does not cause eyestrain, even after many hours of work, and also guarantees high safety for photosensitive materials. We achieved it by reduction of exposure of silver halides, causing long breaks between particular light impulses, using the state-of-art LED technology.

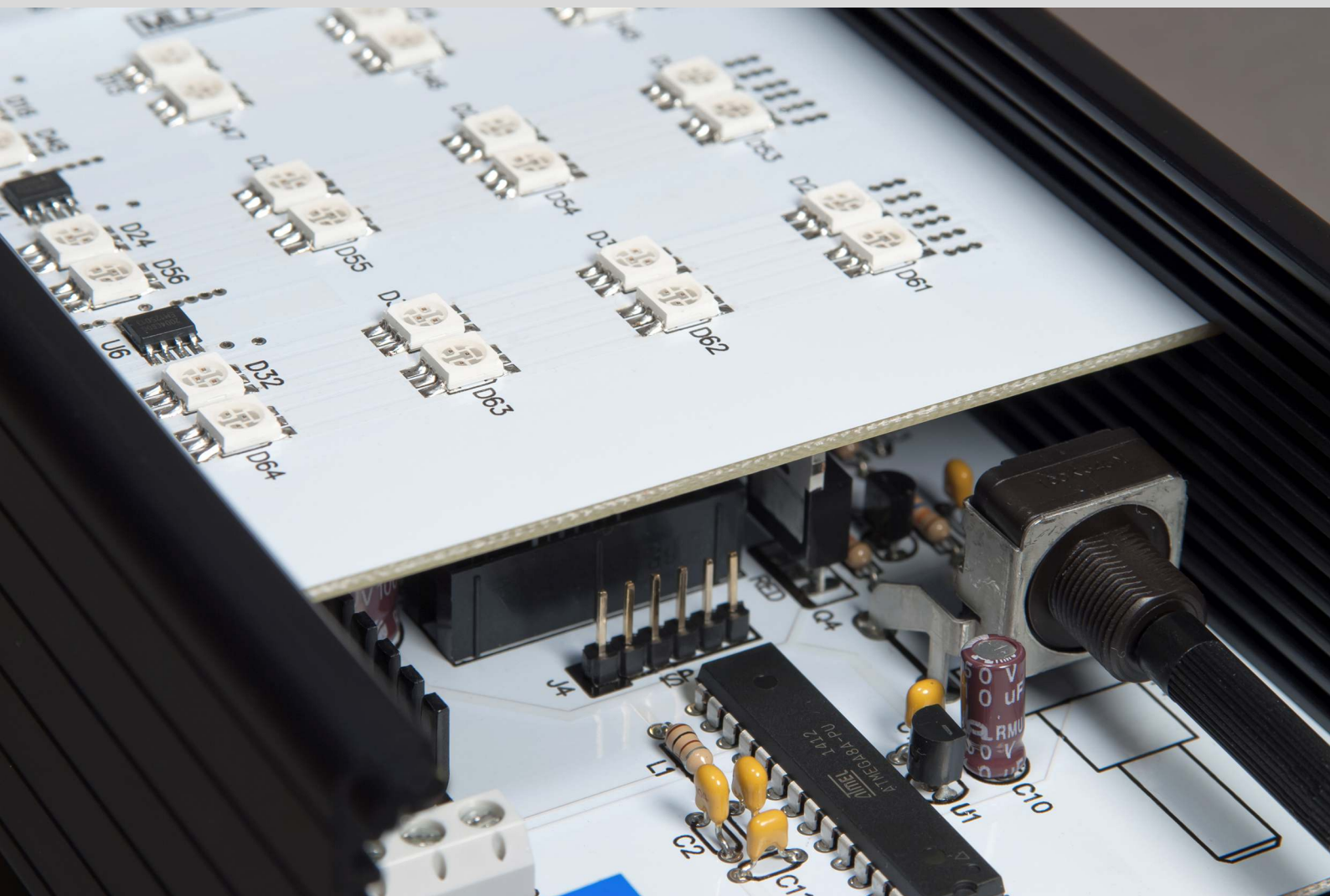


In our latest models of lamp, we applied an assembly technology SMD, and improved light modelling through the use of triple LED diodes with a very wide radiation angle and additional softening of the light by diffusers made of PMMA materials.



Our lamps meet requirements of harmonized norm EN 62471 "Photobiological safety of lamps and lamp systems".

We give a three-year warranty for our products, providing also after warranty service.



We use electronic components of only reputable producers for production of our lamps.

Careful assembly and tests of each produced lamp and keeping compliance with harmonized norms during construction will give You a full satisfaction.

LED diodes come from South Korean company OPTOSUPPLY and they are selected due to choice of an appropriate length of light wave.

On special request, we can make a lamp powered by external safety transformer 24 VAC.

Animal-room lighting MLC-O V3 RAT



Microprocessor animal-room lighting MLC-O V3 RAT uses narrowband emission of LEDs and it is designed for general lighting in the animal-rooms, installation on the ceiling is recommended. Source of light are 144 red LED SMD diodes, in triple casing PLCC6.

It shines invisible to animals raised in laboratories, such as rodents and insects, with deep-red light, with a wavelength of 660 nm, and thanks to its high power, it provides good observation of animals. The maximum power consumption from the electric network is 14 W, and the obtained lighting intensity effect is comparable to that of a 120-watt classic red light bulb.

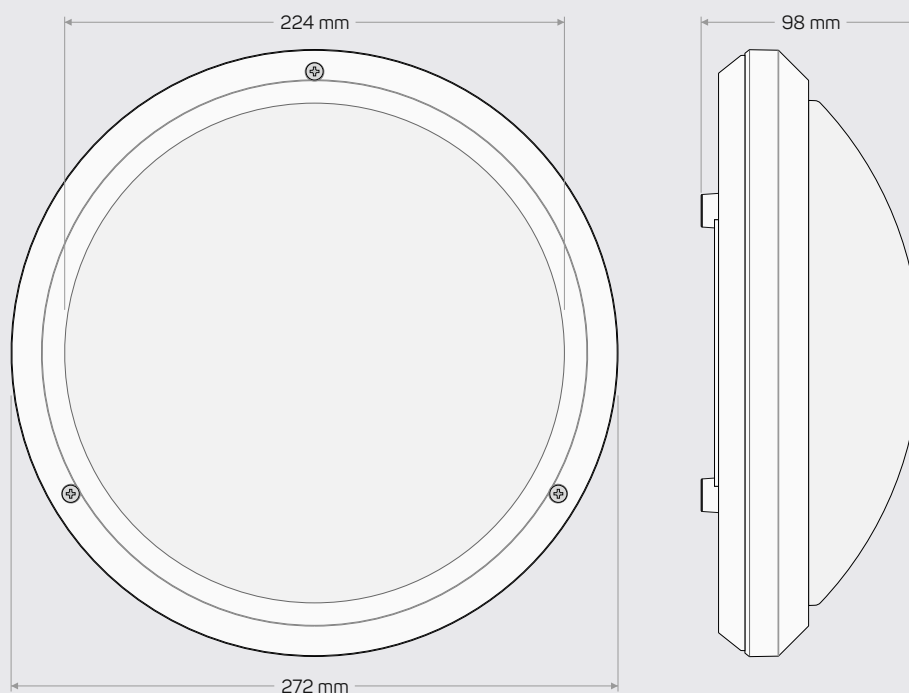
We guarantee the durability of our lamps at over 100,000 working hours.

Casing made of white plastic ABS with a diffusive window with PMMA, it provides IP54 protection degree and allows to use the lamp in the rooms with increased humidity. The lamp is produced in a second-class isolation.

It is switched on using a switch on the wall, near entrance doors to the room.

In addition, it has a potentiometer for individual adjustment, with the possibility of reducing the brightness of light and optimally adapting it to existing needs.

Dimensions:

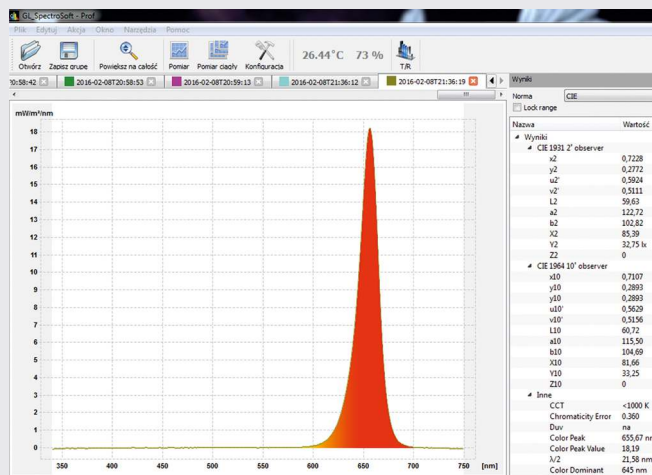
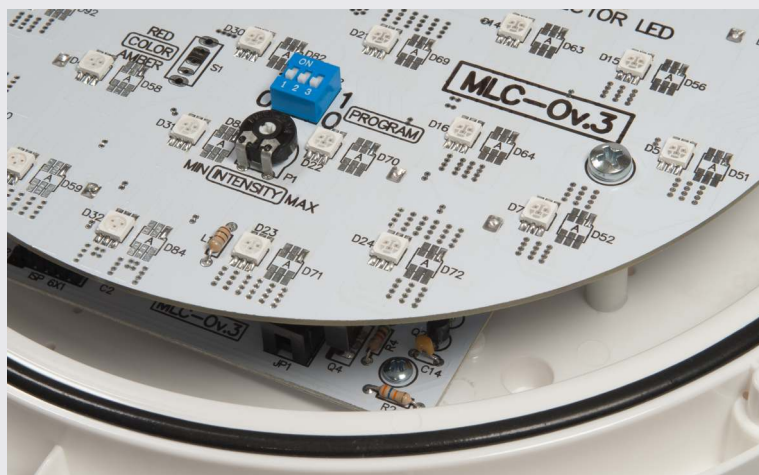


Light emitted parameters:

The light source is 48 SMD LEDs in triple PLCC6 enclosures, emitting a monochrome 660 nm light wave and a deep-red color. Smooth regulation of the amount of PWM light with a high operating frequency of about 3.9 kHz.

Technical data:

Casing:	White plastic ABS with a diffusive lampshade with PMMA.
Weight:	1.122 G
Power supply:	230 VAC, 50 Hz
Power input:	3÷14,5 W
Certificates, declarations:	CE, RoHS



CE 15



Animal-room lighting MLC-S V3 RAT



Microprocessor animal-room lighting MLC-S V3 RAT uses narrowband LEDs emission and is designed to illuminate the test site in the premises of the animal house, with recommended side wall mounting. The light source is 96 red SMD LEDs in triple PLCC6 enclosures, emitting a 660 nm light wave and a deep-red color.

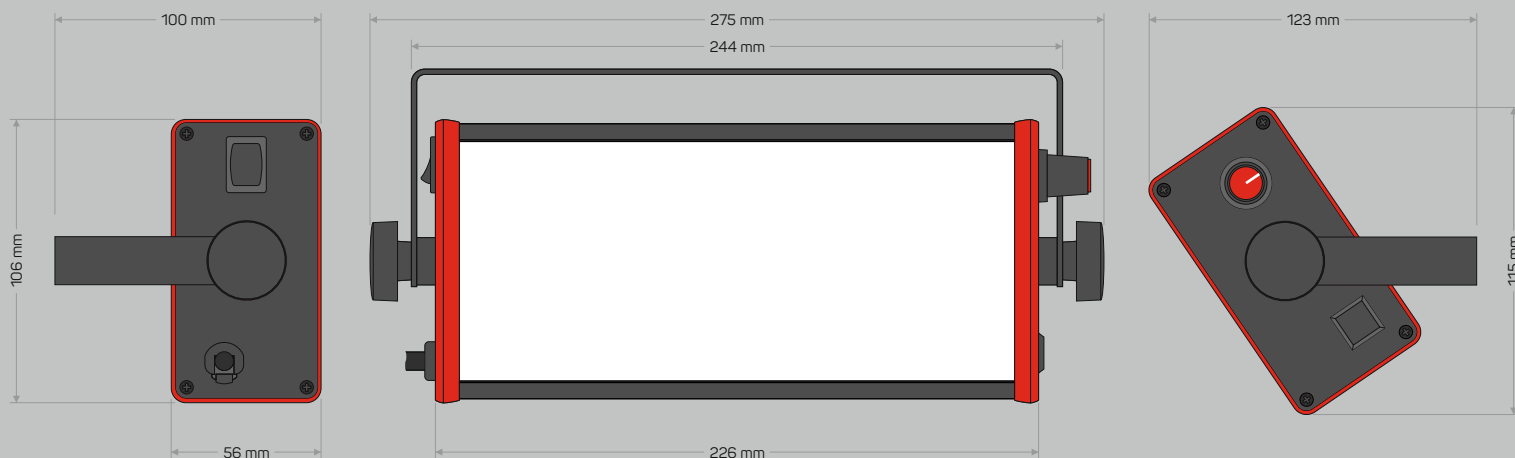
Casing made of aluminum profile anodized into black color with a diffusive window with PMMA, it provides IP53 protection degree and allows to use the lamp in the rooms with increased humidity.

It is perfectly used in laboratories, during behavioral studies on rodents and many nocturnal insects.

In addition, it has a potentiometer for individual adjustment, with the possibility of reducing the brightness of light.

Dimensions:

275 mm x 106 mm x 56 mm

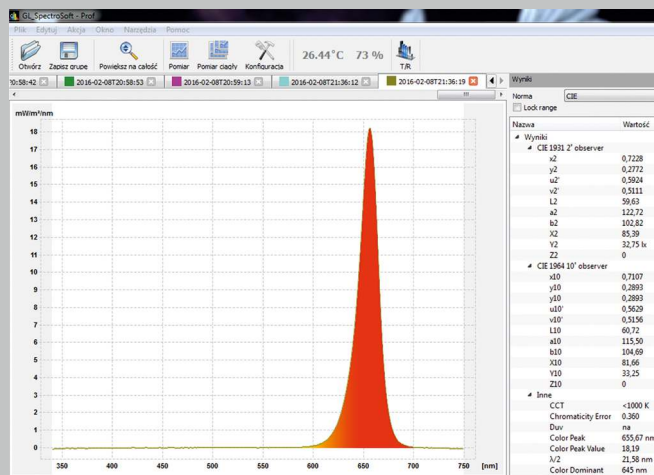


Light emitted parameters:

The light source is 32 SMD LEDs in triple PLCC6 enclosures, emitting a monochrome 660 nm light wave and a deep-red color. Smooth regulation of the amount of PWM light with a high operating frequency of about 3.9 kHz.

Technical data:

Casing:	Aluminum profile anodized in black with a steel handle wall-mounted powder coated black, polyethylene side panels flax in red.
Weight:	1.292 G
Power supply:	230 VAC, 50Hz
Power input:	1,7÷14,5 W
Declarations:	CE, RoHS



Producer:
MIRA Artur Romankiewicz
✉ 11-001 DYWITY
ul. Barczewskiego 18B

NIP: PL739-010-69-44

Technical support:
☎ +48/89-5120-624
☎ +48/606-408-452
✉ mira@mira.biz.pl