

PHILIPS

LEDs as an aid at work

Lighting in the workplace is often an under-addressed topic. It contributes strongly, however, not only to creating a pleasant working environment but also to enhancing a professional technician's ability to concentrate. Also, the brighter the light the more it should resemble daylight's bluish light, so that people can work more comfortably, without eye strain or headache to be healthier, safer and more productive. The benefits of LEDs already enjoyed by automotive lighting are also applicable in the professional context. Most automotive technicians and enthusiasts have shared the frustrating experience of digging around in a dark engine compartment. In the specific workshop context, lighting can enhance inspection work - including short-time inspection work, visual controls, very deep recesses, and also for mobile use. LEDs have gained popularity in the workshop lamp environment as most current workshop lamp suppliers have designed their portfolio around convenient and comfortable light tools that are small, flexible, robust, hands-free and highly efficient in their light output. More and more products are equipped with LED technology as it has proven to be the best lighting technology in the workshop environment.

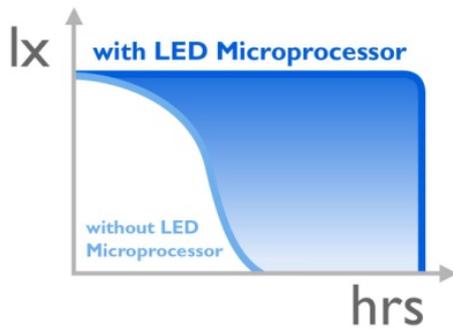


Source: Philips

Figure 1

LEDs in workshop lamps have the following benefits:

- LEDs are low voltage devices: there is no fear of possible fatal electric shock
- Long-life product: LEDs make the battery life of the workshop lamp last up to 10 times longer and the LEDs last up to 50 000 hours.
- LEDs work with a microprocessor that delivers a constant intensity of illumination during long periods of usage for less eye-strain and fewer headaches.



Source: Philips

Figure 2

- LED workshop lamps are two times more efficient than a CFL lamp and five to twenty times more so than Halogen or Incandescent lamps.
- The LED is a cool light source: there is no danger of skin burns through accidental touch or of fire hazards in workplace.
- The LED workshop lamp is an environmentally-friendly light solution for the workplace with no usage of mercury (in fluorescent lamps) or lead (in lead-acid battery).
- The LED light can be switched on and off for millions of times with immediate response, unlike the CFL, which can only be switched on or off a few thousand times and warms up slowly.
- LED is a solid state light source that is virtually un-breakable
- Ideal for operation with rechargeable batteries
- Some LED workshop lamps are cordless and they are easy to move around.



Source: Philips

Figure 3