



ACA Threads



Head Office, Cape Town
100 Upper Canterbury Street,
Cape Town
Tel: +27 21 464 4661

Johannesburg
Unit 5a Galaxy Park,
Galaxy Rd, Linbro Park
Tel: +27 11 262 5179

Pretoria
Unit 11, Lenchen Park
Lenchen Road South, Centurion
Tel: +27 12 663 5921

Namibia
Unit 2 Tesoro Building
31 TV More Street, Windhoek
Tel: +264 61 40 0339



Introduction:

Effects of Factory Lighting on Morale

Morale of the employee is always on the minds of managers as an employee that is motivated will be more productive and more reliable. The color temperature of today's LED lighting is typically around 5000 Kelvin's. This temperature is very similar to natural light and has been found to reduce the amount of melatonin production. This results in employee alertness and reduces sleepiness or fatigue. Improved lighting makes the workplace look cleaner, safer, and more natural.

Safety Improvements with Upgraded Lighting

Safety is an important consideration that can be improved with upgraded lighting. If an employee can not clearly see a hazard, accidents can happen. Collisions in the workplace can be prevented if proper factory lighting is in place to illuminate oncoming pedestrian or material handling equipment. In addition to general facility lighting consider the upgrade to include specific workstation lighting. Improved in process, work station lighting can reduce machine/employee related accidents by making hazards more readily apparent.



Improvement in Quality Checks

Quality improvement always plays a major role in a production manager's mindset. Improved lighting is valuable to inspection stations and quality check cells. Reduced shadowing can highlight quality defects in parts, and improves the ability to spot defects and quality deficiencies. LED lighting also improves color recognition, which can improve the recognition of quality issues.

Many quality problems occur during the manufacturing or assembly process. Improved lighting can reduce manufacturing errors as employees can recognize improper components or missing components during the assembly operation. Alertness is a key component to operating machinery and product assembly. Improved alertness from LED lighting can lead to fewer mistakes and improved quality output.

Improvements in Health and Wellness

Poor lighting can lead to eye strain and causes headaches, tension, and eye discomfort. Improved workplace lighting can reduce these health effects and can lead to improved attendance. An employee that is not feeling at their peak can lead to poor productivity and production errors.



Improving Lighting can Increase Manufacturing Productivity

Improved lighting in the workplace can improve assembly accuracy and potentially speed up assembly operations. If sub-components can be located and orientated with more speed and accuracy, productivity gains may be achieved in the workplace. LED lighting has very sophisticated lensing systems that result in the efficient directing of where the light needs to be in a workplace environment. An upgrade to LED lighting can improve overall vision, improve alertness, reduce shadowing, and improve color recognition during the assembly process, thus leading to increased efficiencies and improved manufacturing productivity.



1. LED lighting improves productivity

Proper lighting is crucial for workplace productivity and often influences employee perception, mood, and performance. Studies have proven that harsh and inadequate lighting decreases everyday productivity. By opting LED lights which mimic natural light and have higher CRI, business owners all over the world are improving productivity among employees and create the perfect work environment. This is probably the biggest benefit of using LED lighting in the workplace.

2. LED lights are energy efficient

With power costs rising all over the world, power saving LED lights are a boon for corporate offices and commercial spaces. In comparison to incandescent or old traditional lights, LED saves about 70% of energy, resulting in substantial savings in the long run. In offices or workplaces where lighting is required around the clock, LED lights have even bigger benefits.

Power efficiency is the major reasons why businesses and commercial centres are making provision of using LED lighting in new projects and also undertaking LED upgrade in old ones.



3. LED products have long lifespan

Quality LEDs have an expected lifespan of 50,000 hours or longer. While a typical incandescent bulb lasts only about 1,000 hours, a compact fluorescent lamp lasts for about 8,000 to 10,000 hours. With a longer operational life, LED lighting products eliminate the need of frequent replacement in offices and workplaces, thus achieving a low maintenance lighting system. However, make sure you buy from top LED suppliers like Province Lighting to get the advantage of maximum lifespan

4. LED lighting produces less heat

Unlike incandescent bulbs, LED lights have low operating temperature and hence don't generate a lot of heat like their counterparts. The heat generated from lighting units come together to influence temperature in the office space. Traditional lighting due their heat generating nature often pushes the air conditioners to work harder which makes them consume more energy. LED lighting products check such wastage and reduce the power bills as well.



5. LED lighting means no bugs

It is widely known fact that you won't have to struggle with bugs and insects if you have deployed LED lighting in your home or office. This is because LED lighting products emit very little heat from their lighting source which reduces their appeal to moths and bugs. Old incandescent lights on the other hand are bug magnets because of the heat and UV rays they dispense. This is the reason why office managers go for modern LED lighting rather than old traditional lighting products.

6. LED lighting is eco-friendly

The carbon emission of LED lights are lower in comparison to carbon emissions of incandescent bulbs. Higher the carbon emission, greater the harm your lighting unit is doing to the environment.

The demand of LED lights is increasing steadily amongst environment conscious businesses because of their low emission carbon footprint. This amazing feature of LED lighting should score the highest in the benefits of LED lighting in offices.



7. LEDs are sturdier

LEDs are strong lighting devices that use semiconductor material rather than a filament or neon gas. A LED light is a tiny microchip element enclosed in plastic material. This is what makes the LED lighting products stronger than the traditional incandescent lighting bulbs or tubes. The fact that LED lighting products sourced from top quality LED manufacturers can easily bear multiple falls, is one of the biggest benefits of LED lighting.

8. LED lighting products are safe

Employee safety is one of the top priorities in commercial spaces, and there is nothing more secure than modern LED lighting. LED light has no mercury and gives away less heat. The ultraviolet rays produced by LED light are negligible as compared to incandescent light bulbs.

Such health benefits are popularizing the usage of LED lighting in offices, warehouses, shopping centres, IT companies, commercial areas, supermarkets, hospitals, schools, colleges, government offices, etc.