



Gas Station Lights



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LED Gas Station Lights

LED lighting can significantly improve gas stations by reducing energy expenses and lasting for many years. Our



Lighting Technologies can help you design a complete system of LED lighting that lasts for years and meets your budget requirements, with a wide selection of products. There are many reasons LED gas station lights

are better than conventional solutions, while reducing maintenance requirements.

Types of LED Gas Station Lights Available

The main type of LED lighting that gas stations often utilize is canopy lighting. LED gas station canopy lights are often installed in canopies that cover the gas pumps. A system of LED canopy lights can last for years and provide sufficient lighting during open hours for customers and employees. LED street lights are also ideal for gas station perimeters. Using a combination of LED lights on the premises, you'll be able to experience lower expenses almost immediately.

The Benefits Of Using LED Gas Station Lights

While the most obvious benefit of LED lights is lowered energy costs, there are many other reasons why you should utilize an LED lighting system. These benefits include:

- Longer life span, with bulbs lasting up to 100,000 hours, or 11 years on continuous operation, and 22 years on 50% operation
- Ecological friendliness, as LED bulbs lack toxic chemicals typically found in conventional bulbs.
- Durability with sturdy components that are rugged and capable of withstanding harsh weather conditions

- No UV emissions and minimal infrared light
- Design flexibility, with the ability to combine shapes and dim them to produce efficient illumination
- Functionality in extreme hot or cold environments
- Sufficient distribution of light with the ability to focus on certain areas
- Frequent switching and instant lighting
- Low-voltage power supply which makes it easy to use them in outdoor settings through an external energy source

These benefits make LED lights invaluable for gas stations and many other locations that may otherwise spend more than they need to on lighting systems.

With our products, you can design a fully customized system of lights, including canopy lights and flat panel lighting, to improve the overall lighting of your gas station and convenience stores located on the premises. You'll benefit from reliable solutions that reduce expenses and last for years .

Site lighting of gas stations and convenience stores should enhance the visual process of users while providing the following: illuminance levels appropriate for the visual task, reasonable uniformity ratios, and minimal glare and light trespass.

1. Avoid competing light levels and maintain balanced light levels on-site and between adjacent properties. The exterior lighting design must take into account the background lighting levels, lighting from other sources, and characteristics of the surrounding area.

2. Recommended illuminance level guidelines and uniformity ratios established by the Illumination Engineering Society of North America (IESNA) in the most current IESNA Recommended Practice or Design Guide should also be incorporated for lighting designs.

3. Direct and reflected glare and excess site brightness should be minimized.

4. Minimize light trespass beyond property lines. The maximum horizontal illuminance at grade and the maximum vertical illuminance at five feet above grade should not exceed IESNA recommended practice for light trespass

5. Canopy Lighting Maintained average horizontal illuminance at grade (directly under the canopy) should not exceed 30 footcandles and should conform to IESNA recommended practices. On properties subject to the Environmentally Sensitive Lands (ESL) overlay, the maintained average horizontal illuminance at grade should not exceed 20 footcandles and should conform to IESNA recommended practices.

- Individual luminaire lamp wattage should not exceed 250 watts.
- Light fixtures mounted under canopies should be completely recessed into the canopy with flat lenses that are translucent and completely flush with the bottom surface (ceiling) of the canopy.

- The sides (fascias) of the canopy should extend below the lens of the fixture 12 inches to block the direct view of the light sources and lenses from property line.
- Lights should not be mounted on the top or sides (fascias) of the canopy, and the sides (fascias) should not be illuminated.

6. Parking Lot and Site Lighting

- All luminaires should be a full cut-off design, aimed downward and away from the property line.
- Maintained average horizontal illuminance at grade should not exceed 5 footcandles and should conform to IESNA recommended uniformity ratios. On properties subject to the Environmentally Sensitive Lands (ESL) overlay, the maintained average horizontal illuminance at grade should not exceed 2.5 footcandles and should conform to IESNA recommended practices.
- On properties subject to the Environmentally Sensitive Lands (ESL) overlay, the maximum pole heights should not exceed 15'.

7. Building-Mounted Lighting

- All luminaires should be a full cut-off design and aimed downward.
- All luminaires should be recessed or shielded so the light source is not directly visible from the property line.
- Maintained average horizontal illuminance at grade along the storefront including any spill light from store interior should not exceed current IESNA recommended practice.

Basic principles

- General illuminance to be around 300-350lux at floor level.
- Ensure petrol pumps are well lit, 100lux minimum, on the face of the pumps.
- Consider the vehicles that will be using the petrol station forecourt and ensure that there will still be sufficient light and no dark patches when in use. (Taller vehicles, such as HGVs, may effectively block all of the light from a luminaire, particularly if the forecourt has a low canopy).
- Typical spacings with a canopy height of 4.5m would be 4-5metres between luminaires.
- Ensure that the entrance to the shop is well illuminated, with a minimum of 2m from the entrance to the first luminaire.

AVAILABLE MODELS



AQTSL001



AQTSL002



AQTSL003



AQTSL004



AQTSL005



AQTSL006



AQTSL007



AQTSL008



AQTSL009



AQTSL010



AQTSL011



AQTSL012



AQTSL013



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