



APPLICATION NOTE

LUMATEQ LED Vapor-Tight Kit (LVTLK218)

Interior/Exterior Use

DEFINITION

The use of LEDs as an energy efficient lighting solution, also known as Solid State Lighting (SSL), offers great promise as the next generation of lighting for everyday environments. Unlike traditional sources that use vacuum or gas filled tubes, such as incandescent, fluorescent, and HID lighting, LEDs produce light solely by the rapid movement of electrons through a semiconductor material.

LEDs generate light so efficiently that they are becoming an attractive alternative lighting source. Compared to traditional sources, LEDs draw less power and produce a lower heat output. This results in a significant reduction for two of the largest energy consumers in our working and living environments: HVAC and lighting. LEDs typically offer the additional advantage of having a longer service life than traditional sources.

LEDs are directly controlled by a “driver” which in turn is controlled by a control source. The LED driver regulates the current flowing through the LED during operation to produce the maximum output. It protects the LED from voltage and current fluctuations to prevent pre-mature failure.



48"L x 8-1/2"H x 6-1/2"W
(Lamp 48"L)

BENEFITS

Compared to fluorescent bulbs, LED light bulbs contain no mercury (unlike a Compact Fluorescent Lamp-CFL). Their lifespan is unaffected by cycling on and off so they are well-suited for light fixtures that are often turned on and off. LED light bulbs are also mechanically robust; most other artificial light sources are fragile.

White-light light-emitting diode lamps have longer life expectancy and higher efficiency (the same light for less electricity) than most other lighting. LED sources are compact. Because of the small size of LEDs, control of the spatial distribution of illumination is extremely flexible and the light output and spatial distribution array can be controlled with no efficiency loss.

LED lamps have no breakable glass tubes and their internal parts are rigidly supported, making them resistant to vibration and impact. LED lighting provides clean, reliable, cost-effective lighting with the potential for as much as 90% savings in annual energy costs. There is, therefore, a breadth of applications and capabilities that result in financial and environmental benefits to specifying and installing TACO's LUMATEQ LED Vapor-Tight Light Kits.

APPLICATIONS

Clean, reliable, cost-effective lighting with the potential for as much as 90% savings in annual energy costs, and significantly reduced heat emissions beneficial to internal spaces.

- **Marine:** Because it is ETL-Approved for “Wet Locations”, the LUMATEQ Vapor-Tight Kit is perfect for lighting boat yards where efficient, low-glare illumination is key for providing a safe working environment where water and moisture may be present. Marinas and docks benefit from clean, white overhead light effective for safe pedestrian navigation.
- **Security:** Indoor and outdoor garages and other parking structures, warehouses & storage facilities and loading docks where constant, reliable lighting provides essential security.

★ SOLUTION

This fixture is ideal for indoor spaces on land and on-board: boatyards, berths, boat basins, harbors, landings, moorings, piers, ports, slips and wharfs; as well as on large marine vessels, including commercial fishers, container ships, tankers, cargo carriers, cruise and recreational ships' engine rooms, stowage, walkways, mess halls, freezers/coolers, sleeping cabins and recreational quarters- anywhere overhead clean white lighting with low heat emission is required to illuminate work, pedestrian, recreational and ceremonial quarters.

For ordering information contact TACO's dedicated customer service organization at:
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Keep up to date and see What's Going On at TACO by visiting our website:
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KEY FEATURES

- Low draw, energy-efficient operation
- Up to 50,000 hours of operation
- High visibility, low glare, low heat emission ideal for interior work spaces
- Durable construction, LEDs are vibration and shock-resistant; maintenance-free
- Mounts as wall pack, up-light, down-light and ceiling

INCLUDED

- Fixture includes: 4' Vapor-Tight weather-proof housing with 2 18-Watt LED Lamps
- Stainless Steel mounting bracket w/screws
- Mounting Instructions
- 3-Year Limited Warranty

PRODUCT CAPABILITIES

- Up to 50,000 hours of reliable LED lighting
- 110~277 Volt AC/Draws 45 Amperes
- One 18-Watt LED Lamp replaces 4-Watt T-8 Fluorescent Lamp
- Impact-resistant Polycarbonate lens
- Max 160° Light Spread
- 4' weather-resistant housing
- ETL-Approved for "Wet Location" (non-submersion)
- ETL Listed
- Temperature-tested -40°F/+150°F

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