



Engineering

by William D. Frye, Ph.D., CHE

O•ZoneLite air purification system cleans air by just flipping the light switch

*Another great article from The Rooms Chronicle, the #1 journal for hotel rooms management! ***Important notice: This article may not be reproduced without permission of the publisher or the author.*** College of Hospitality and Tourism Management, Niagara University, P.O. Box 2036, Niagara University, NY 14109-2036. Phone: 866-Read TRC. E-mail: editor@roomschronicle.com*

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It is very difficult for hoteliers to control what occurs inside a guestroom once it has been rented. As guests bring with them various lifestyles, habits, and customs onto hotel grounds, it is safe to assume that rented hotel rooms will continue to be exposed to a wide range of smells and odors. Everything from pet smells, body odor, cologne and perfume, residual smells from smokers and even the occasional stench of in-room cooking smells tend to find their way into hotel rooms.

What if hoteliers could neutralize these undesirable airborne odors by basically doing nothing? Well that is almost the situation that the new product O•ZoneLite™ presents. O•ZoneLite™ is marketed as an amazing technological breakthrough that will revolutionize the way building engineers and housekeeping staff seek to preserve the indoor air quality of hotels and resorts.

In its most simplistic form, O•ZoneLite™ is a 23-watt or 42-watt compact fluorescent lamp (CFL) designed to replace incandescent bulbs in hotel guestroom floor lamps, table lamps and recessed or wall-mounted lighting fixtures. Like traditional CFLs, O•ZoneLite™ fits virtually anywhere a standard bulb can be used and emits the same light output of a 100-watt incandescent bulb. Yet it only consumes 23-watts (or 42-watts) and typically lasts up to 6,000 hours – 8 times longer than incandescent bulbs.

What truly makes O•ZoneLite™ unique is its ability to neutralize odors and maintain desirable indoor air quality by eliminating airborne bacteria, mold, viruses, fungi, smoke and household odors. The O•ZoneLite™ bulb is coated with titanium dioxide. When the titanium-coated bulb is lighted, a photocatalytic action is created that destroys airborne pollutants through an oxidation process. This process does not leave any residue, nor harm the environment. O•ZoneLite™ does not emit ozone, is completely safe for humans and animals, and creates a clean smell without the use of chemicals or sprays.

O•ZoneLite™ does not have to be left on continually to be effective; even intermittent usage helps eliminate airborne pathogens. Listed at \$49.95 each/\$179.80 four-pack, the 23-Watt O•ZoneLite™ will maintain air quality for a 150 sq. ft. area, while the “Turbo” 42-watt O•ZoneLite™ lists for \$59.95 each/\$164.85 three-pack and will cover up to a 400 sq. ft. area, or the size of an average hotel guestroom.

Many hoteliers have implemented O•ZoneLite™ technology to deliver crisp-smelling rooms to guests, to neutralize offensive odors, and to minimize energy consumption of incandescent lamps. In December 2004, after a three-month trial, the AAA-Four Diamond Amelia Island Plantation instituted use of the air-purifying light bulbs in all 249 of its guestrooms and suites.

“We were thoroughly impressed with the test run of O•ZoneLites. The light bulbs purify the air and give each room a fresh clean smell, which from the guests’ perception is what every resort should have,” stated Ed Dixon, supervisor of maintenance for Amelia Island Plantation. “By eliminating most airborne pathogens and dust, our resort will have the cleanest rooms in the United States. All our staff needs to do when they finish cleaning a room is flick on the light switch, and O•ZoneLite™ does the rest,” says Dixon.

Dixon related a situation where water had leaked under some carpeting in an indoor area of the resort. The water damage was realized several days later. By that time a dank and musty smell had thoroughly penetrated the room.

Pictured below: This 23-Watt O•ZoneLite™ delivers the same light output as a 100 watt incandescent light bulb at a fraction of the cost while neutralizing airborne pollutants.



Dixon replaced the incandescent bulbs in the ceiling fixtures with two O•ZoneLites and left the lights turned on. A few hours later, neither guests nor staff could smell the previous offensive odors!

Finally, hotels that implement O•ZoneLite™ technology will likely qualify for utility rebates as the bulbs are in compliance with national utility rebate standards for saving energy and are Energy Star® certified. ✧

(For additional information on the O•Zone Lite™ air purification bulb or to acquire the product, visit www.ozonelite.com, call call 1-866-845-2345, or e-mail: info@ozonelite.com.)

Pictured below: The O•ZoneLite in this desk lamp serves up 100 watts of light output while purifying the air from undesirable contaminants.

